

UNIVERSITY OF THE PHILIPPINES MANILA
COLLEGE OF ARTS AND SCIENCES
DEPARTMENTAL OF PHYSICAL SCIENCES AND MATHEMATICS

Tutorial and Online Examination System

a Special Problem submitted in partial
fulfillment of the requirements for the
degree of Bachelor of Science
in Computer Science

Submitted by:
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ACCEPTANCE SHEET

The Special Problem entitled "Tutorial and Online Examination System" prepared and submitted by Mark Anthony P. Manalang in partial fulfillment of the requirements for the degree of Bachelor of Science in Computer Science has been examined and is recommended for acceptance.

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ABSTRACT

The UP Manila Learning Resource Center's Tutorial and Online Examination System (TOES) is an information system that enables mock examination and tutorial scheduling to be conducted over the internet. It is an examination system wherein the staff creates questions, the admin administers exams, the students take exams, and the director examines exam results. It is also a tutorial scheduling system where the student requests/enlists in a tutorial, the admin posts tutorial schedules based on the availability of the tutor, and the staff records the tutorial attendance.

Keywords: information system, online examination system, tutorial schedule system, exam analysis, exam item analysis, exam data bank

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I. INTRODUCTION

A. Background of the Study

The University of the Philippines Manila Learning Resource Center (LRC) is mandated to supplement, complement and coordinate existing learning assistance programs to ensure that the goal of promoting academic excellence will be realized in a more caring and nurturing environment. [1] Mock examinations and tutorial programs are examples of learning assistance programs that LRC provides.

The mock examination provides simulation of exams in Mathematics, Chemistry and Physics. The questions in the exams are taken from previous mock exams and from tutors thus giving the student a hint on what to expect in the real exam. The tutorial program provides free tutorials on different subject areas in Mathematics, Communication, Chemistry and Physics subjects. Tutorials are done by competent peer tutor and/or volunteer faculty. [2]

To avail of the free tutorial program, students will have to go to LRC where they select a tutor whose availability suits their free time and LRC's office hours. After selecting a tutor a "tutorial appointment slip" is submitted to the LRC staff. Tutorial requests shall be made two days in advance to allow tutors to be informed. The tutee will have to return the following day to confirm if the appointment has been set. [2]

B. Statement of the Problem

The Learning Resource Center (LRC) of the University of the Philippines Manila (UPM) has been performing “mock exams” manually. During a mock exam, students are given test papers and answer sheets. Since this method is manually done, some written answers may not be easily readable and hence appear ambiguous thus contributing to error. The tutors check these answer sheets consuming precious time and effort. The latter takes more or less a week before a student gets the test results.

LRC has difficulties in managing their question records. They keep everything in folders for storage which slows down the retrieval of the questions. The schedules of tutorial or exam sessions are usually posted on bulletin boards and most of the time they fail to get the attention of students.

It is for these reasons that a new system should be introduced. This system should speed up the examination processes thru electronic checking of answer sheets and generation of performance reports.

C. Objectives of the Study

The main objective of the study is to create the University of the Philippines Manila Learning Resource Center’s Tutorial and Online Examination System (UPM LRC TOES) with the following features:

1.) Allows UP Manila students to:

- a. enlist in tutorial schedules in Mathematics, Chemistry and Physics

- b. request/petition a tutorial with preferred subject, day(s), and period(s)
 - c. take the mock exam in Mathematics, Chemistry and Physics
 - d. update personal account
- 2.) Allows peer tutor or faculty tutor to:
- a. update tutor schedule
 - b. update personal account
- 3.) Allows LRC staff to:
- a. record student attendance (enlisted or walk-in) in a tutorial session
 - b. add/edit/delete questions in the question bank
 - c. add/edit/delete subject in the question bank
 - d. add/edit/delete topic in the question bank
 - e. update personal account
- 4.) Allows the administration officer/system administrator to:
- a. set a tutorial based on the online requests
 - b. set exam schedule
 - c. approve the registration request of student for an exam
 - d. generate HTML file of the recently given exam (for post exam discussions)
 - e. update personal account
 - f. add/edit/delete user accounts
 - g. to generate an exam in a specified subject
- 5.) Allow the LRC director to:
- a. perform item analysis in a specified examination
 - b. update personal account

D. Significance of the Study

The system supports multiple choice, true-or-false and matching type question formats. Employing radio buttons for both multiple choice and true-or-false questions and drop down menus for matching type questions would eliminate the problems caused by ambiguous writings in the pen and paper method.

It will also perform the checking electronically freeing the LRC staff from the hassles of checking hundreds of test papers. Reports regarding the students performance (i.e. the frequency of errors) will help the tutor identify the topics that need more attention and elaboration thus resulting to a more detailed and relevant post-exam discussion.

The system should also provide a back-end module for administrative purposes. In this module the faculty tutors or staffs from LRC can create test questions either by supplying new questions or by extracting old questions from the test questions database.

E. Scope and Limitations

1. The system is designed for UP Manila LRC only.
2. A student can take the exam provided that he/she is currently enrolled in UP Manila with a valid TOES student account, is registered for the exam and is authorized by the assigned administrator. The validation of the account is done manually by the LRC office. Each account is deactivated after the end of each semester.
3. Computational or essay type of questions are not supported.

4. Unfortunately there is no feasible way to obtain the current enrollees for each semester so the registration of student accounts can not be improved.
5. The process involved in accommodating 'wait listed' students is not covered by the system.
6. A student may take a mock departmental exam only once. If for example a student took the 'first departmental' mock exam in Math 17 for the current semester he/she will not be allowed to register in any 'first departmental' mock exam for Math 17 in the current semester.
7. When a tutorial schedule or an exam batch schedule is cancelled, the LRC is not obliged to inform the affected students. It is the student's sole responsibility to track the status of his/her enlistments and registrations.
8. The LRC can only produce LIMITED exam batch schedules due to limited number of computers.

F. Assumptions

1. System date and time should always be accurate.
2. Staffs creating questions should be given proper instructions on how to compose questions using the TOES question editor.
3. All questions stored in TOES are free from misspellings or any other incorrectness.
4. The machine (PC) used in creating questions must have Microsoft Word 2002 installed. The macro scripts embedded in the question templates will not work if a different version is installed.
5. The machine (PC) used in creating questions must have a 'C:\toes\' folder. The macro scripts embedded in the question templates will only work if the templates are locally saved in this folder.

II. REVIEW OF RELATED LITERATURE

FSCREATIONS, INC. boasts streamline assessment from start to finish with ExamView Assessment Suite Professional Edition. The product is a complete toolset that enables the user to build comprehensive tests with Test Generator, administer tests with Test Player, and analyze results with Test Manager. A full-featured dedicated word processor allows the user to customize questions that can be selected from fourteen formats including Multiple Response, Bimodal, and Dynamic. Question Banks are used to compile questions into multiple study guides and tests. Tests created with the program can be administered on paper, over local area network, or online. To complete the package, the Test Manager grades the test through a variety of scanning methods, tracks examinee progress, and generates reports useful for analysis. [³]

The Republic of the Philippines Professional Regulation Commission (PRC) developed an online facility named Licensure Examination and Registration Information System (LERIS) for online licensure services. The LERIS services are Online Application, Online Payment, Walk-in Examination, and Online Registration. The Online Application requires applicants to fill up electronic forms and attach electronic/scanned copies of supporting documents which will be stored in the LERIS database as his/her permanent record. The initial implementation of LERIS requires the applicant to submit the original copies of the supporting documents for verification. Electronic linkages with related government agencies that provide data about the professional will soon be established to allow paperless transactions. After the applicant is verified he/she will be allowed to take the PRC Walk-in Examination System (WES). It is a multi-disciplinary examination system that allows professionals of various disciplines to take their respective examinations at the same time and at

the same venue. It is a biometrically-secured interactive examination that randomly generates unique test set for each examinee and automatically computes test results. After taking oath, the new professional must apply to register his / her professional license and request for certificates and endorsements using the Online Registration system. Subsequent registration renewal will also be through the latter. [4]

The Computer-Assisted Testing (CAT) of the Philippines Civil Service Commission (PCSC) is a software program designed to administer the PCSC's Career Service Professional or Sub professional examinations - the entrance test for the second and first level employees, respectively, in the government. It facilitates the systematic storage, updating and retrieval of pertinent examinee data as well as checking and scoring of examinee answers to test questions from computerized software. It is also able to generate reports of ratings and statistics of the test scores. [5]

CourseWebs is a Learning Management System (LMS) that enables distance learning courses to be conducted over the Internet. CourseWebs has a built in content management system, exam system, discussion forums, and user management system. The LMS lets any instructor create an online classroom that includes exams and quizzes, discussion forums, a course calendar, and HTML content. The entire system is browser-based and can be deployed over the internet, intranets and LANS. [6]

Moodle is a software package for producing internet-based courses and web sites. It's an ongoing development project designed to support a social constructionist framework of education. Moodle is provided freely as Open Source

software (under the GNU Public License). Moodle will run on any computer that can run PHP, and can support many types of database (particularly MySQL). [7]

Random Test Generator – Pro is designed for educators at any level to develop TestBanks of test items from which randomly selected test items are then extracted to create student tests. Test Items may comprise of multiple choice, True/False, Fill-in and/or essay types. The Test Builder option can be set to identify exactly how many questions to select from each TestBank to create a single test. These tests may be administered on the computer with an optional timer, printed on paper or administered via the Internet. [8]

The PNP Examination System processes files and records of examinees to the PNP Examinations conducted biannually by the Commission. The system allows users to generate Room Assignment lists, Examinee Master List, and statistical reports such as passed/failed, item analysis, frequency distribution, and certified list of eligibles. [9]

WebCT is a leading provider of e-learning systems for educational institutions. Thousands of colleges and universities in more than 70 countries worldwide are expanding the boundaries of teaching and learning with WebCT. WebCT is a web application with course tools for the convenience and unique learning needs of individual students. The course software includes communication tools, assessments, and course materials. Communication tools include chat rooms, whiteboards, discussion threads, and internal course email. Assessments on the other hand can be by self-tests, surveys, and quizzes. Lastly, course materials may include presentations, syllabi, and links to other sites. [10]

ParSYSTEM is Scantron's integrated suite of powerful software modules that allow users to create, administer and score tests on paper, via networks or over the Internet. With ParTEST, teachers can develop multi-format tests from item banks. ParTEST Online enables test takers to take tests online or on a network. ParSCORE completes the suite allowing educators to manage student records, analyze test outcomes and create reports. [11]

MindwebX is an Online Examination System that provides a complete solution to Create, Process, Manage, Publish, and Deliver examination online. Today the number of students aspiring to take examination is growing. Under such a situation the traditional examination methods are not much efficient considering a large number of students dispersed in various geographic locations. So this online examination system provides a reliable and efficient method to conduct exams for universities, distant education systems, bank recruitments and other large recruitment firms. This system can easily and flexibly handle examination of thousands of students simultaneously dispersed across distant geographic locations, providing completely secure and efficient web based solution for conducting Online Examination. [12]

III. THEORETICAL FRAMEWORK

A. Learning Resource Center (LRC)

Established on April 17, 1997, its task is to supplement, complement, and coordinate existing learning assistance programs wherein the goal of academic excellence will be realized in a more caring and nurturing environment. [1]

Its goals include the following: 1) Upgrade student capabilities to meet the demands of UP education, particularly in the Natural Sciences, Mathematics, Arts and Communications, and the Social Sciences. 2) Provide alternative avenues for personal growth. 3) Provide assistance to student's psychosocial development through specific activities and programs 4) Coordinate with other offices/units and organizations within the university regarding student progress and welfare. 5) Determine the effectiveness of learning assistance programs. [1]

The three major components of LRC are: 1) Instructional and Enrichment Assistance Program which includes a) Summer Bridge Program for Admitted Freshmen b) Self-Instructional and Tutorial Program, 2) Life Skills Development Program, and 3) Monitoring and Evaluation of the Learning Assistance Programs. The available services at the LRC consist of tutorial program, simulated examinations, reviewers, and computer and internet use. The accessible facilities comprise a Multimedia Library, Audio Visual Room, and the IT Room. [1]

B. Item Analysis in an Examination

Item analysis is a statistical summary of the results of an exam administered to a group of examinees. As such, it is used to evaluate the effectiveness of the exam. More specifically, the information included on the item analysis is used to identify miskeyed or malfunctioning items, as well as items that simply do not discriminate between the better candidates and the poorer candidates. Item analysis information is also useful when revising items for future administrations of the exam.

C. Information System

Any means for communicating knowledge from one person to another, such as by simple verbal communication, punched-card systems, optical coincidence systems based on coordinate indexing, and completely computerized methods of storing, searching, and retrieving of information. [¹³]

It is made up of the database, application programs and manual and machine procedures. It also encompasses the computer systems that do the processing. The database stores the subjects of the business (master files) and its activities (transaction files). The application programs provide the data entry, updating, query and report processing. The manual procedures document how data are obtained for input and how the system's output is distributed. Machine procedures instruct the computer how to perform scheduled activities, in which the output of one program is automatically fed into another. The daily work is the online, interactive processing of the business transactions and updating of customer, inventory and vendor files (master files). At the end of the day or other period, programs print reports and update files that were not updated on a daily basis. Periodically, files must be

updated for routine maintenance such as adding and deleting employees and making changes to product descriptions. [13]

D. Database Management System

MySQL is defining a new database standard. This is based on its dedication to providing a less complicated solution suitable for widespread application deployment at a greatly reduced TCO. MySQL's robust database solutions embody an ingenious software architecture while delivering dramatic cost savings. With superior speed, reliability, and ease of use, MySQL has become the preferred choice of corporate IT Managers because it eliminates the major problems associated with downtime, maintenance, administration and support. [14]

MySQL is a key part of LAMP (Linux, Apache, MySQL, PHP / Perl / Python), a fast growing open source enterprise software stack. More and more companies are using LAMP as an alternative to expensive proprietary software stacks because of its lower cost and freedom from lock-in. [14]

E. Scripting Language

Scripting languages are designed for "gluing" applications; they use typeless approaches to achieve a higher level of programming and more rapid application development than system programming languages. Scripting languages such as Perl, Python, Rexx, Tcl, Visual Basic, and the Unix shells represent a very different style of programming than system programming languages. Scripting languages assume that there already exists a collection of useful components written in other languages.

Scripting languages aren't intended for writing applications from scratch; they are intended primarily for plugging together components. [15]

PHP, which stands for "PHP: Hypertext Processor", is a widely used open source general purpose server-side scripting language. It is especially suited for web development and can be embedded into web pages. Its main goal is to write dynamically generated web pages. [16]

JavaScript is the Netscape-developed object scripting language used in millions of web pages and server applications worldwide. In a nutshell, JavaScript is a dynamic scripting language supporting prototype based object construction. The basic syntax is intentionally similar to both Java and C++. JavaScript can function as both a procedural and an object oriented language. [17] Client-side JavaScript extends the core JavaScript language by supplying objects to control a browser and its Document Object Model (DOM). Client-side JavaScript statements embedded in an HTML page can respond to user events such as mouse clicks, form input, and page navigation. [18]

B. Data Table

ANSWER – A table representing a virtual answer sheet.

Field	Data Type	Data Element
<u>batch_id</u>	smallint	foreign key (BATCH)
<u>student_number</u>	varchar(10)	foreign key (STUDENT table)
answerString	text	contains sequential answers concatenated by "-" whose order is determined by the randomItem
randomItem	text	determines the order in which the exam items are shown during the examination
<u>lastViewedItem</u>	smallint	foreign key (QUESTION) that identifies the last exam item viewed by the examinee
score	smallint	examinee's score after taking the examination

ATTENDANCE – A table for storing the attendees for each tutorial schedule.

Field	Data Type	Data Element
<u>student_number</u>	varchar(10)	foreign key (STUDENT) identifies the attendee
<u>tutorial_id</u>	smallint	foreign key (TUTORIAL) identifies the tutorial schedule
status	enum('present', 'absent')	marks the attendee if he/she is present or absent in the tutorial schedule
enlistmentMethod	enum('online', 'walk in')	an attendee is marked as 'walk in' if he/she is not enlisted in the tutorial schedule but was able to attend based on LRC's discretion

BATCH – Lists all the exam batch schedule for each exam.

Field	Data Type	Data Element
<u>batch_id</u>	smallint	primary key
<u>exam_id</u>	smallint	foreign key (EXAM) identifies the exam for this exam batch schedule

date	date	date of the examination
examTime	tinytext	examination period using the hh:mm-hh:mm 24 HR format
discussionTime	tinytext	discussion period using the hh:mm-hh:mm 24 HR format
availableSlots	int(3)	reflects the number of computers that can be used for the exam batch schedule
accessibility	enum('open', 'closed')	'closed' indicates that the answer sheets for the exam batch schedule was checked
term	enum('first', 'second', 'summer')	'first' for first semester, 'second' for second semester
sy	varchar(9)	school year using the format yyyy-yyyy

DEGREE_PROGRAMS – Lists the degree programs offered in UP Manila.

Field	Data Type	Data Element
<u>degreeProgram_id</u>	smallint	primary key
<u>college_id</u>	smallint	foreign key (UPM_COLLEGES) identifies the assigned college for the degree program
degreeProgramName	tinytext	specifies the degree program name

ENLISTMENT – Stores the enlistees for the tutorial schedules.

Field	Data Type	Data Element
<u>student_number</u>	tinytext	foreign key (STUDENT) identifies the enlistee
<u>tutorial_id</u>	smallint	foreign key (TUTORIAL) identifies the tutorial schedule
priorityNumber	smallint(3)	helps the system to identify the priority and wait listed enlistees

EXAM – Lists the available exams.

Field	Data Type	Data Element
<u>exam_id</u>	smallint	primary key
<u>subject_id</u>	smallint	foreign key (SUBJECT) identifies the subject of the exam

description	tinytext	short description of the exam
author	tinytext	creator of the exam
allotedTime	time	exam's duration in hh:mm:ss format
dateCreated	dateTime	YYYY-MM-DD hh:mm:ss format specifying the date when the exam was created
deptNum	text	specifies the departmental number

EXAM_ITEM – Lists the questions for every exam.

Field	Data Type	Data Element
<u>exam_id</u>	smallint	foreign key (EXAM) identifies the exam
<u>question_id</u>	smallint	foreign key (QUESTION) identifies the question
questionNum	smallint(6)	specifies the order of the question in a non-randomized exam
pointAssigned	tinyint(4)	specifies the weight of each exam item
itemStatistic	mediumtext	stores system code which helps in performing item analysis

FILE – Lists all files that are embedded in some questions.

Field	Data Type	Data Element
<u>file_id</u>	smallint	primary key
<u>question_id</u>	smallint	foreign key (QUESTION) identifies the question where the file is embedded
type	tinytext	specifies the type of the file
origFilename	tinytext	stores the original filename of the file
src	tinytext	stores the local path of the file

LRC_PERSONNEL – Lists all LRC personnel.

Field	Data Type	Data Element
<u>personnel_id</u>	smallint	primary key
personnelType	enum('administration officer', 'lrc director', 'staff')	specifies the type of personnel
firstName	tinytext	personnel first name
middleName	tinytext	personnel middle name
lastName	tinytext	personnel last name

username	varchar(16)	personnel username
password	varchar(16)	personnel password

QUESTION – Stores all questions.

Field	Data Type	Data Element
<u>question_id</u>	smallint	primary key
<u>topic_id</u>	smallint	foreign key (TOPIC) identifies the topic of the question
questionType	enum('matching type', 'multiple choice', 'true or false')	specifies the type of question
objects	mediumtext	links the question to the html file and auxiliary files
answer	text	contains the answer for the question
author	tinytext	specifies the author of the question
difficulty	enum('very easy', 'easy', 'medium', 'hard', 'very hard')	rate of difficulty according to the author

REGISTRATION – Stores the registered students for every exam batch schedule.

Field	Data Type	Data Element
<u>batch_id</u>	smallint	foreign key (BATCH) identifies the exam batch schedule
<u>student_number</u>	varchar(10)	foreign key (STUDENT) identifies the registered student
registrationDate	dateTime	date when the student registered using the format YYYY-MM-DD hh:mm:ss
remainingTime	time	stores the students' remaining time during the examination
registrationType	enum('online', 'submitted')	'submitted' registrations are registrants that are directly registered by the exam administrator
status	enum('waiting', 'answering', 'blocked', 'finished')	stores the status of the examinee during the examination
authorization	enum('no', 'yes')	this flag tells the system if a registrant is allowed to access the exam
offense	tinytext	stores examinee's offense when he/she commits a

		violation
previousTimeStamp	dateTime	marks the examinees last time of access

REQUEST – Lists all tutorial requests from students.

Field	Data Type	Data Element
request_id	smallint	primary key
student_number	varchar(10)	foreign key (STUDENT) identifies student
subject	smallint	identifies the subject of the tutorial request
topics	text	stores the topics of the tutorial request
preferredTutor	smallint	identifies the preferred tutor for the tutorial request
preferredDay	date	specifies the preferred date for the tutorial using the YYYY-MM-DD format
preferredTime	tinytext	specifies the preferred time for the tutorial using the hh:mm-hh:mm 24 HR format
requestDate	datetime	specifies when the request was made using the YYYY-MM-DD hh:mm:ss format

STATISTICS_EXAM – Stores all exam statistics.

Field	Data Type	Data Element
exam_id	smallint	foreign key (EXAM) identifies the exam
nInclItems	float	The number of selected items
nOmitItems	float	The number of omitted items
nIncExaminees	float	The number of selected examinees
nOmitExaminees	float	The number of omitted examinees
mean	float	the average score
variance	float	a measure of spread of test scores
standardDeviation	float	another measure of spread of test scores. (The standard deviation is the square root of the variance)
skew	float	This index summarises the extent of symmetry in the distribution of candidates

		scores. A symmetrical distribution has a skewness of 0; negative values indicate more high scores than low scores and positive values indicate more low scores than high scores.
kurtosis	float	This index compares the distribution of candidate scores with a particular mathematical distribution of scores known as the Normal or Gaussian distribution. Positive values indicate a more peaked distribution than the specified distribution; negative values indicate a flatter distribution
minimum	float	This is the lowest candidate score in this group.
maximum	float	This is the highest candidate score in this group.
median	float	This is the middle score when all candidates scores in this group are arranged in order.
KR20	float	This statistic measures test reliability of inter-item consistency. A higher value indicates a strong relationship between items on the test. The Kuder Richardson 20 will always be greater or equal to the Kuder Richardson 21. It is considered more accurate than the Kuder Richardson 21.
KR21	float	The Kuder Richardson 21 approximates inter-item consistency. A high value indicates a strong relationship between items and a lower value a weaker relationship. The mean or average score of the exam is part of the formula. The values of

		both KR20 and KR21 range from 0 to 1
SB	float	The Spearman-Brown method divides the corrected test into odd and even halves. Each half is scored as though it were a separate test.

STATISTICS_ITEM – Stores all exam item statistics.

Field	Data Type	Data Element
<u>exam_id</u>	smallint	foreign key (EXAM) identifies the exam
<u>question_id</u>	smallint	foreign key (QUESTION) identifies the question
itemDifficulty	float	The percentage of examinees who got the item correct.
DI	float	Measures the extent to which item responses can discriminate between individuals who have a high score on the test and those that get a low score.
PBC	float	A point biserial correlation is the correlation between the student scores for a given item and the student scores for the test as a whole.

STUDENT – List all students who have TOES STUDENT accounts.

Field	Data Type	Data Element
<u>student_number</u>	varchar(10)	primary key
firstName	tinytext	first name of student
middleName	tinytext	middle name of student
lastName	tinytext	last name of student
course	tinytext	course of student
college	tinytext	college of student
mobilePhone	varchar(15)	mobile phone of student
landPhone	varchar(15)	land line of student
email	tinytext	email address of student
password	varchar(16)	student password
status	enum('inactive', 'suspended', 'active')	status of student's account, 'suspended' when a student fails to attend his/her enlisted tutorial schedule, while 'active' when he/she is currently enrolled in the current

		term otherwise 'inactive'
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SUBJECT – Lists all subjects supported by TOES.

Field	Data Type	Data Element
<u>subject_id</u>	smallint	primary key
subjectName	tinytext	subject name
subjDescription	text	subject description

TOPIC – Lists all topics for every subject.

Field	Data Type	Data Element
<u>topic_id</u>	smallint	primary key
<u>subject_id</u>	smallint	foreign key (SUBJECT) identifies the subject of the topic
topicName	tinytext	topic name
deptNum	text	specifies departmental number

TUTOR – Lists all LRC tutors.

Field	Data Type	Data Element
<u>tutor_id</u>	smallint	primary key
firstName	tinytext	first name of tutor
middleName	tinytext	middle name of tutor
lastName	tinytext	last name of tutor
birthday	date	birth day of tutor using YYYY-MM-DD format
username	varchar(16)	tutor's username
password	varchar(16)	tutor's password
mobilePhone	varchar(15)	mobile phone of tutor
landPhone	varchar(15)	land line of tutor
email	tinytext	email address of tutor
tutorType	enum('f', 'p')	'f' for faculty while 'p' for peer
deptCourse	smallint	identifies the department or course of the tutor
tutoredSubject	tinytext	lists the tutor's tutored subjects

TUTOR_SCHEDULE – Lists the schedule of each tutor.

Field	Data Type	Data Element
<u>tutorSchedule_id</u>	smallint	primary key
<u>tutor_id</u>	smallint	foreign key (TUTOR) identifies the tutor for the schedule
prefDay	tinytext	tutor's preferred day
prefTime	tinytext	tutor's preferred time using the hh:mm-hh:mm

		24 HR format
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TUTORIAL – Lists all the tutorial schedules.

Field	Data Type	Data Element
<u>tutorial_id</u>	smallint	primary key
<u>tutor_id</u>	smallint	foreign key (TUTOR) identifies the tutor for the tutorial schedule
subject	smallint	identifies the subject for the tutorial
topic	text	lists all the topics to be discussed in the tutorial schedule
time	tinytext	time of the tutorial schedule in hh:mm-hh:mm 24 HR format
date	date	date of the tutorial schedule in YYYY-MM-DD format

UPM_COLLEGES – Lists all UP Manila colleges.

Field	Data Type	Data Element
<u>college_id</u>	smallint	primary key
collegeName	tinytext	college name

UPM_DEPARTMENTS – Lists all UP Manila departments.

Field	Data Type	Data Element
<u>department_id</u>	smallint	primary key
departmentName	tinytext	department name

C. Context Diagram

The context diagram is seen in Figure 2. There are five main entities of the system namely admin, student, director, tutor and staff.

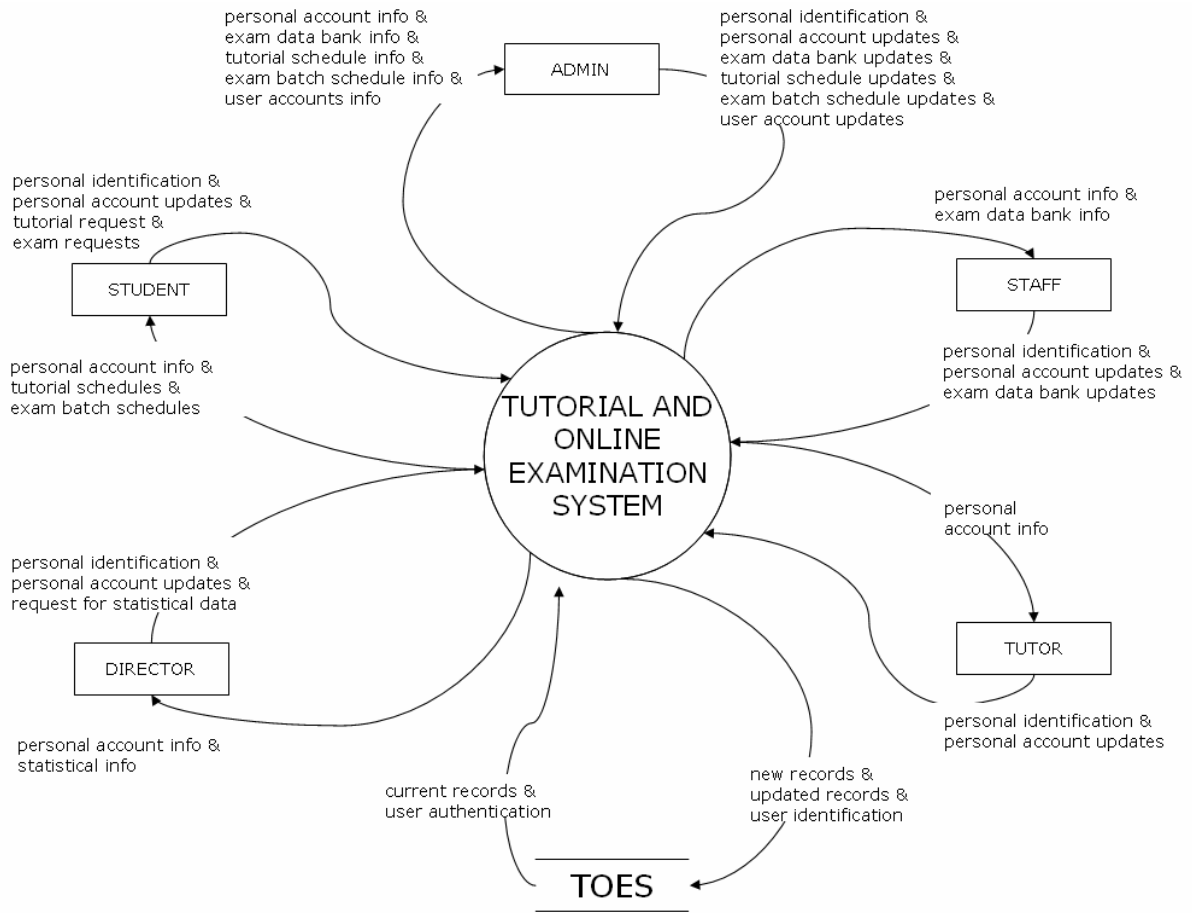


Figure 2: Context Diagram, UPM LRC TOES

D. Data Flow Diagram

Figure 3 shows the top level Data Flow Diagram (DFD). TOES has seven main processes. These are namely: 1) TOES login, 2) Update Tutor Schedules, 3) Update Exam Data bank, 4) Request Tutorial, 5) Process Examination Request, 6) Perform Exam Analysis and 7) Update User Account. Process 1 has two subexplorations and is seen in Figure 4.

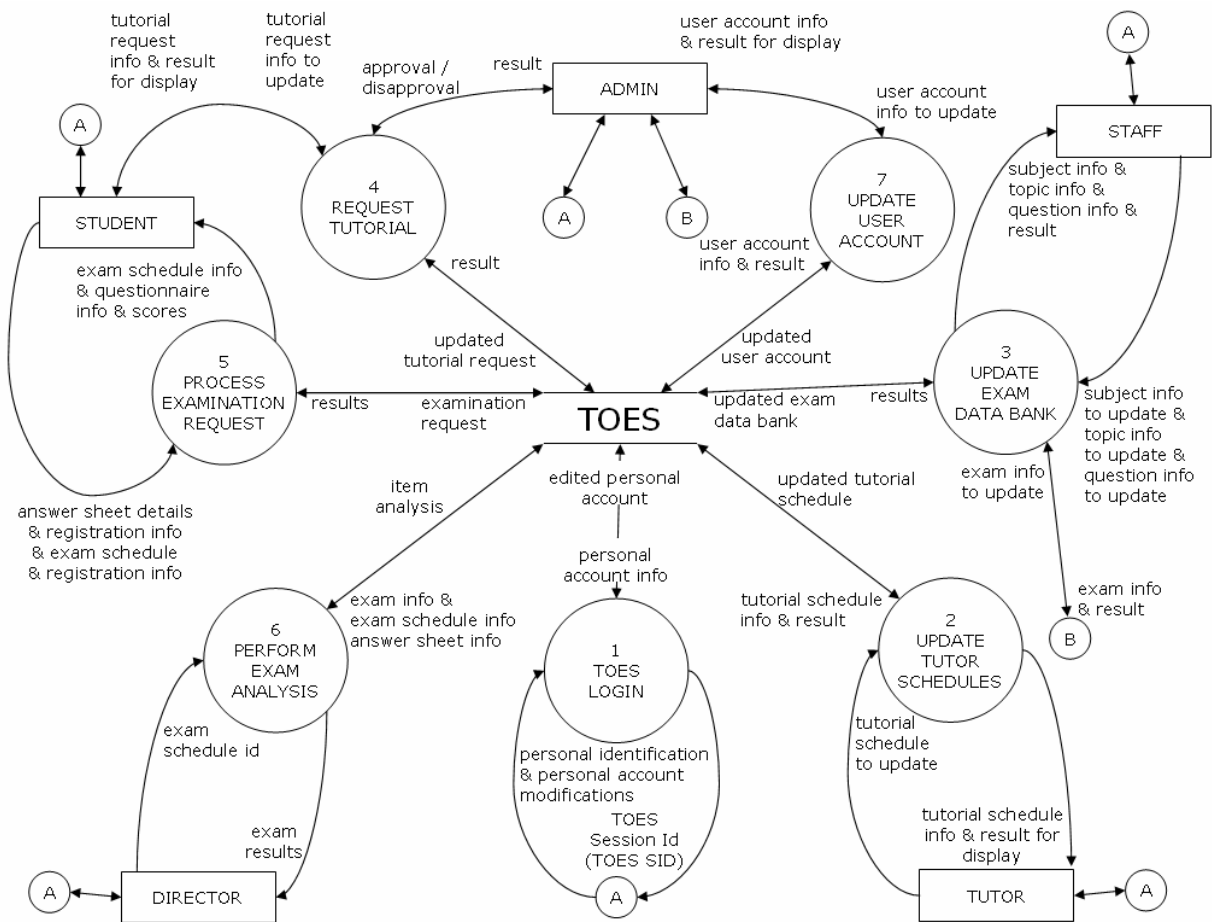


Figure 3: Top Level DFD, UPM LRC TOES

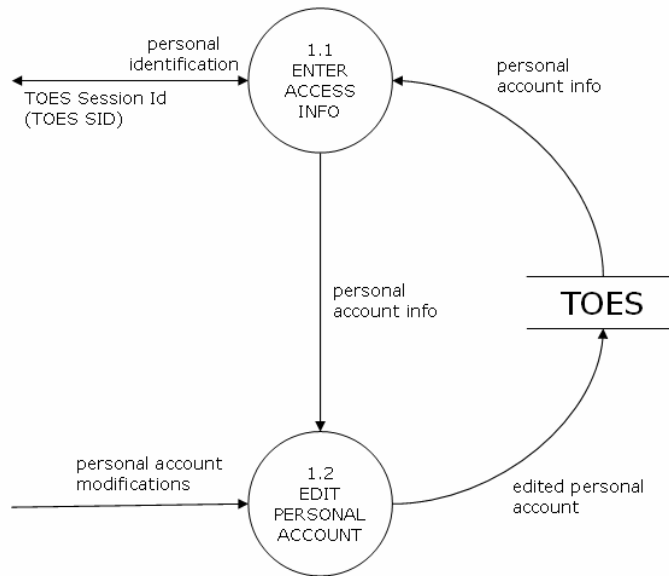


Figure 4: Subexplosion of Process 1: TOES Login, UPM LRC TOES

The subexplosion of Process 2 (Update Tutor Schedules) is shown in Figure 5. The subprocesses are: 2.1) Add Tutorial Schedules, 2.2) Edit Tutorial Schedules and 2.3) Delete Tutorial Schedules. On the other hand Figure 6 shows the subexplosions of Process 3 (Update Exam Data Bank) with four subprocesses. These are 3.1) Update Subject, 3.2) Update Topic, 3.3) Update Question and 3.4) Update Exam. Further subexplosions of these subprocesses are seen in Figures 7-12.

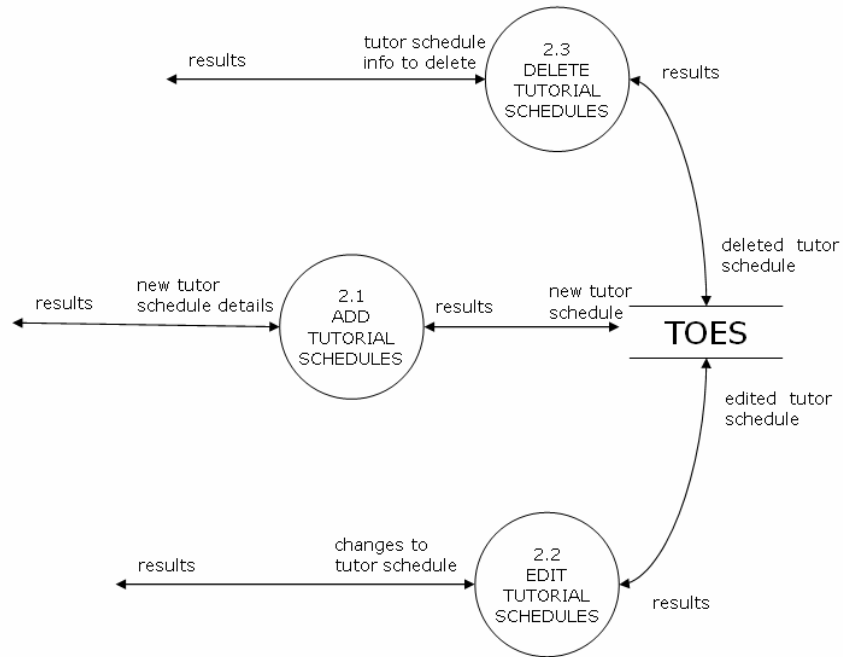


Figure 5: Subexplosion of Process 2: Update Tutor Schedules, UPM LRC TOES

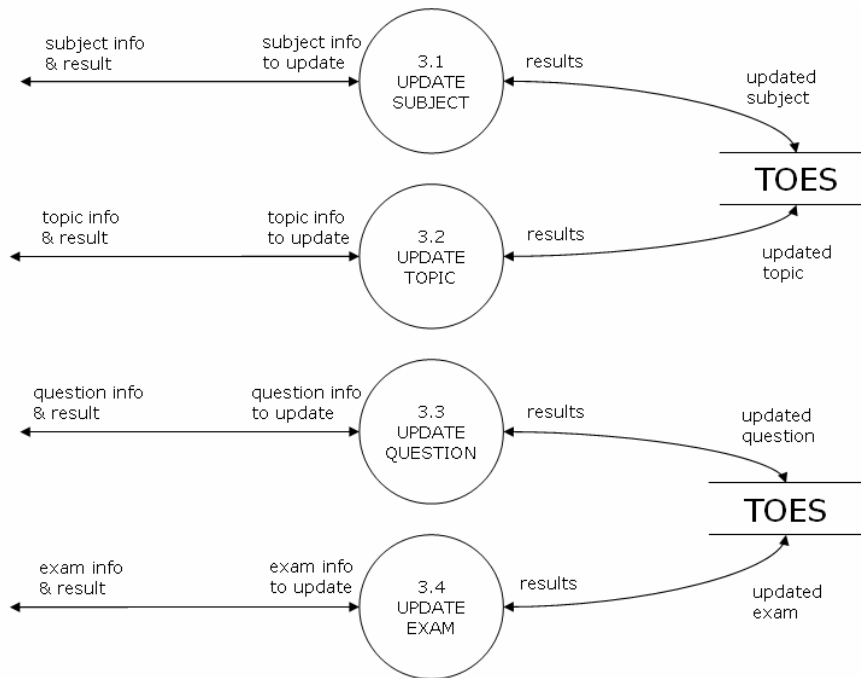


Figure 6: Subexplosion of Process 3: Update Exam Data Bank, UPM LRC TOES

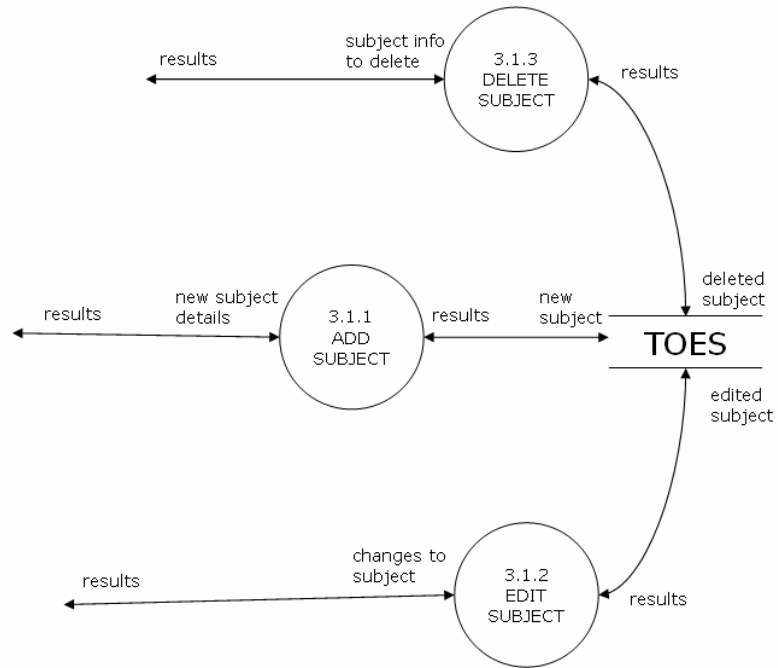


Figure 7: Subexplosion of Process 3.1: Update Subject, UPM LRC TOES

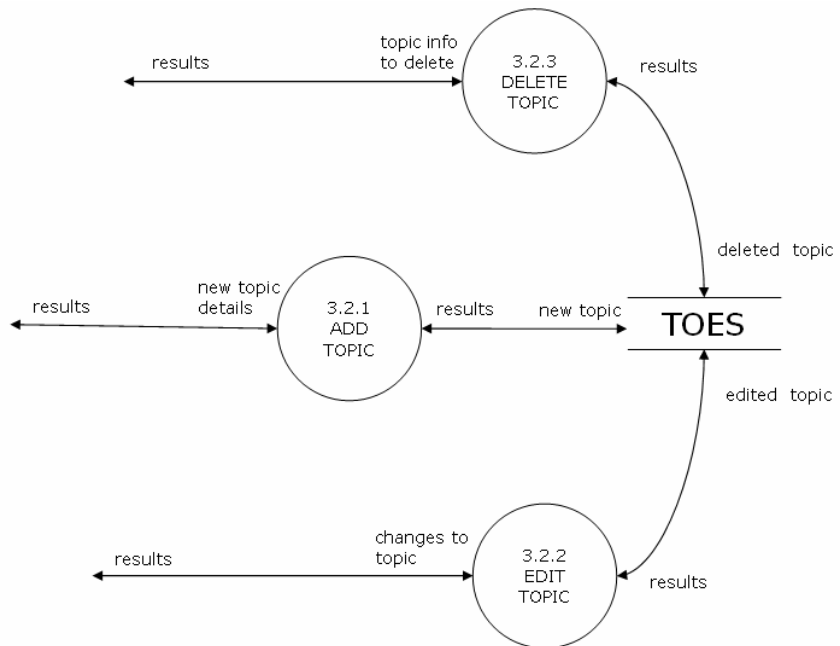


Figure 8: Subexplosion of Process 3.2: Update Topic, UPM LRC TOES

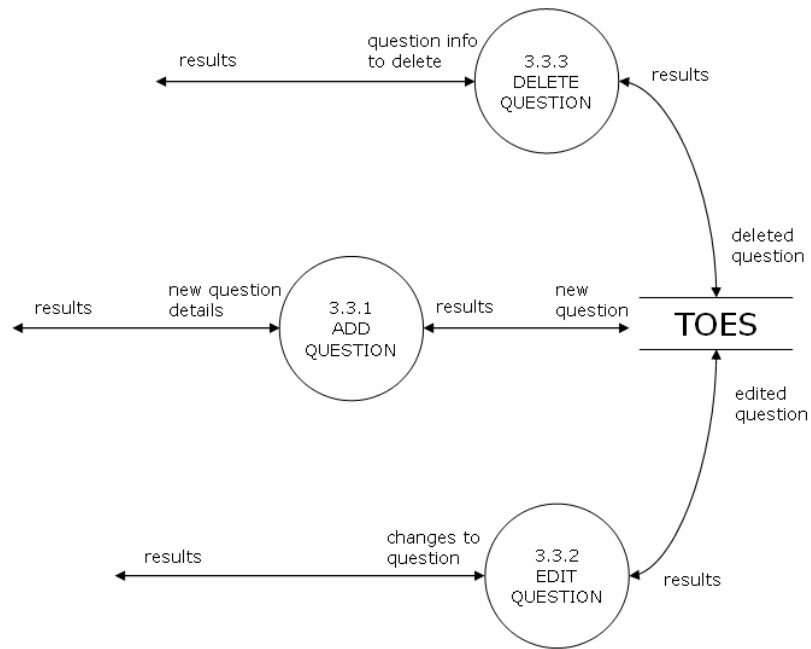


Figure 9: Subexplosion of Process 3.3: Update Question, UPM LRC TOES

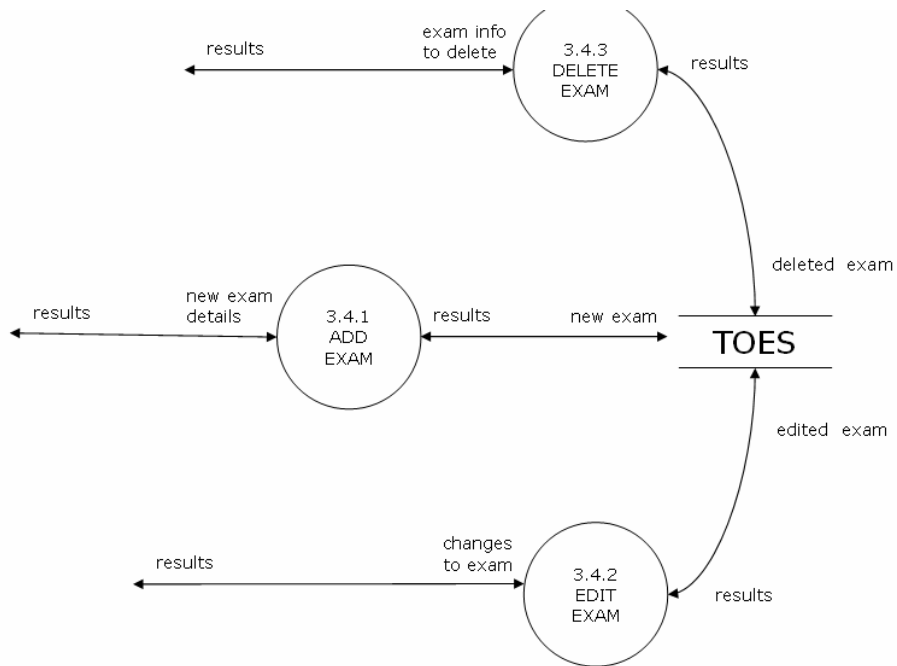


Figure 10: Subexplosion of Process 3.4: Update Exam, UPM LRC TOES

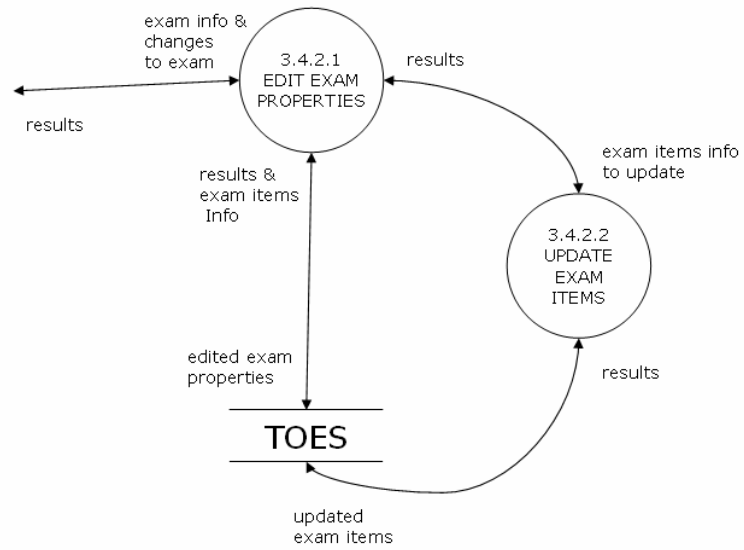


Figure 11: Subexplosion of Process 3.4.2: Edit Exam, UPM LRC TOES

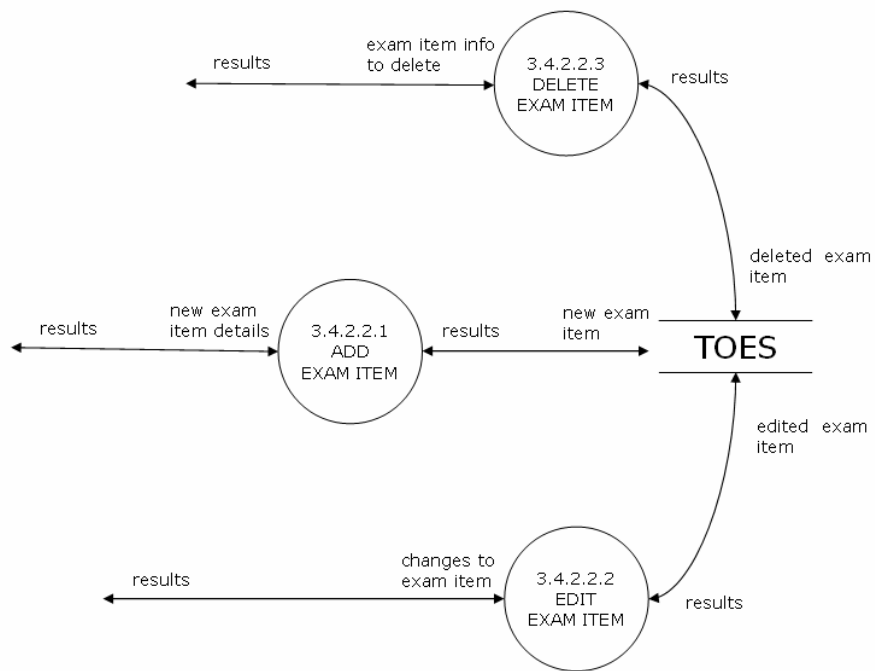


Figure 12: Subexplosion of Process 3.4.2.2: Update Exam Items, UPM LRC TOES

Figure 13 shows the subexplosion of Process 4 (Request Tutorial). It has four subprocesses: 4.1) Create Tutorial Schedule, 4.2) Petition Tutorial Schedule, 4.3) Enlist/Delist Tutorial Schedule and 4.4) Approve/Disapprove Petition. On the other hand, the subexplosions of Process 5 (Process Examination Request) and that of Process 6 (Perform Exam Analysis) are found in Figures 14 and 15 respectively.

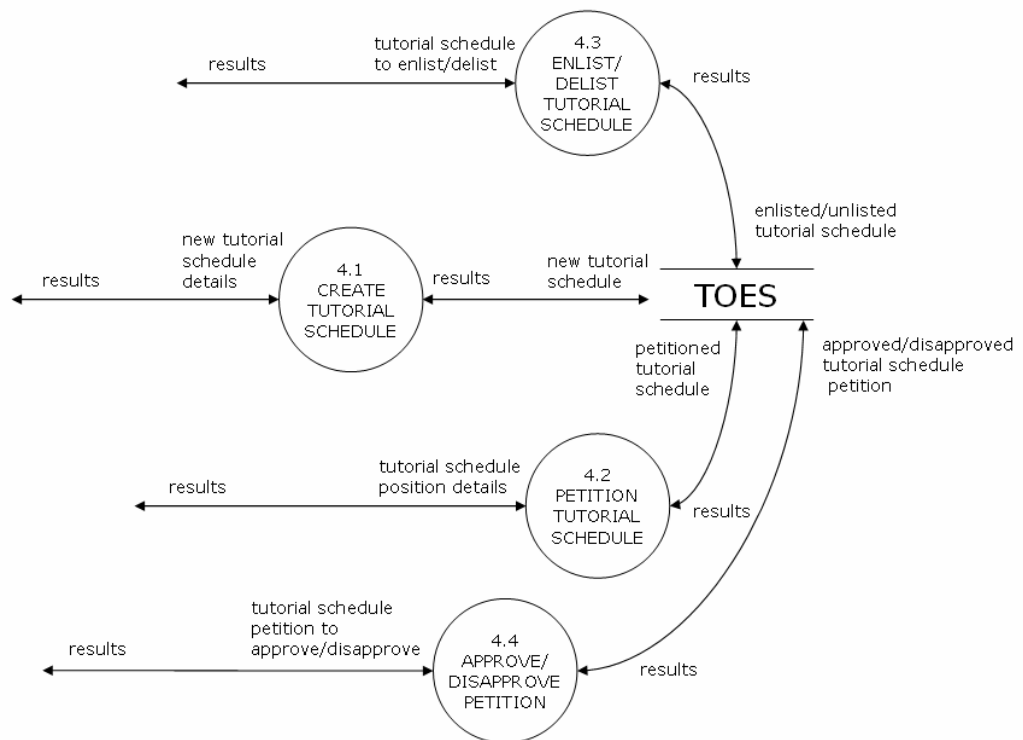


Figure 13: Subexplosion of Process 4: Request Tutorial, UPM LRC TOES

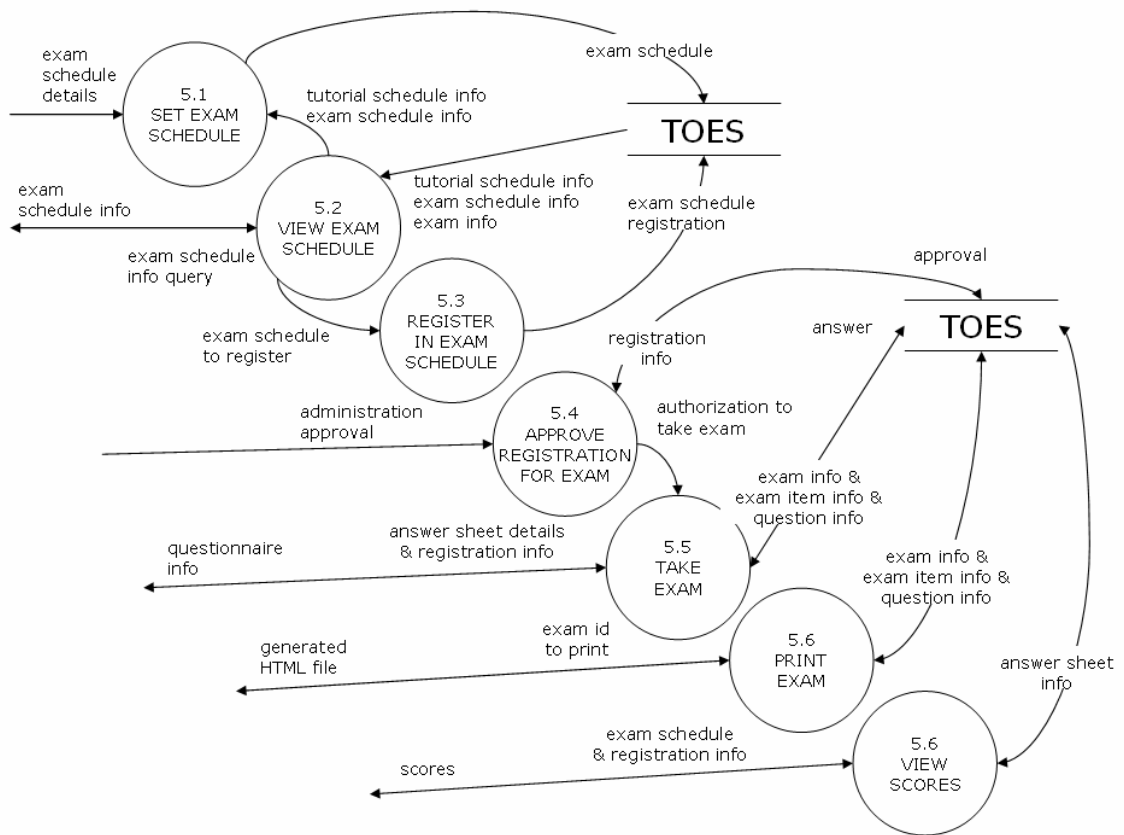


Figure 14: Subexplosion of Process 5: Process Examination Request, UPM LRC TOES

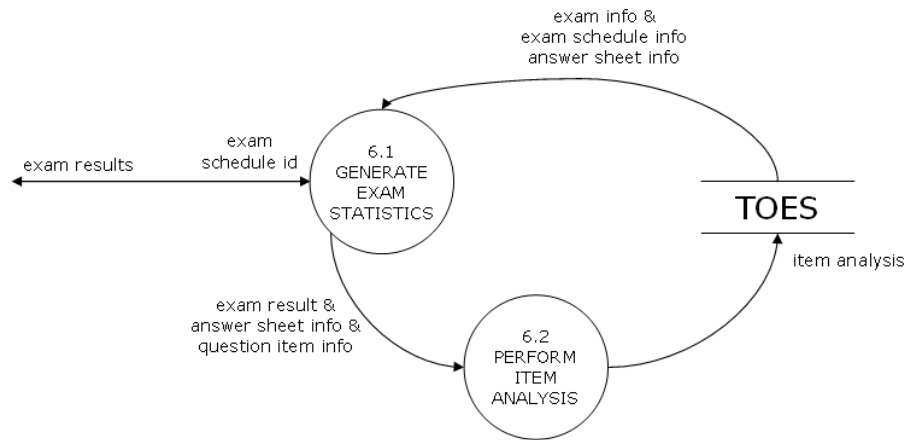


Figure 15: Subexplosion of Process 6: Perform Exam Analysis, UPM LRC TOES

The administrative functionalities are seen in Figure 16. It shows the subprocesses 7.1) Add User Account, 7.2) Edit User Account and 7.3) Delete User Account.

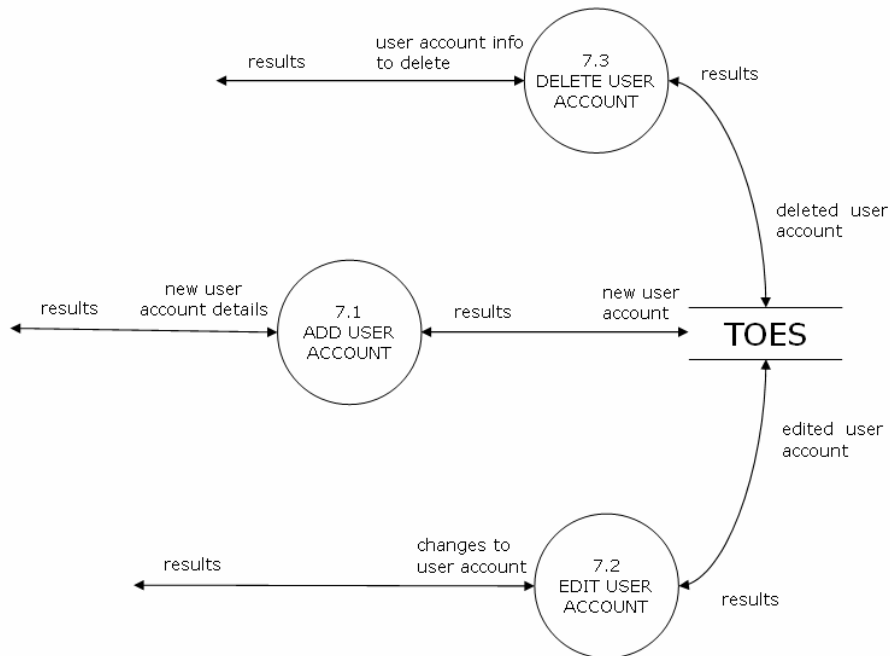


Figure 16: Subexplosion of Process 7: Update User Account, UPM LRC TOES

E. Technical Architecture

The Learning Resource Center's Tutorial and Online System (TOES) is implemented using client-server architecture. TOES clients need a computer with internet access to send requests to the server. The server processes requests and returns results through the internet. The clients represent the TOES users who access any TOES page.

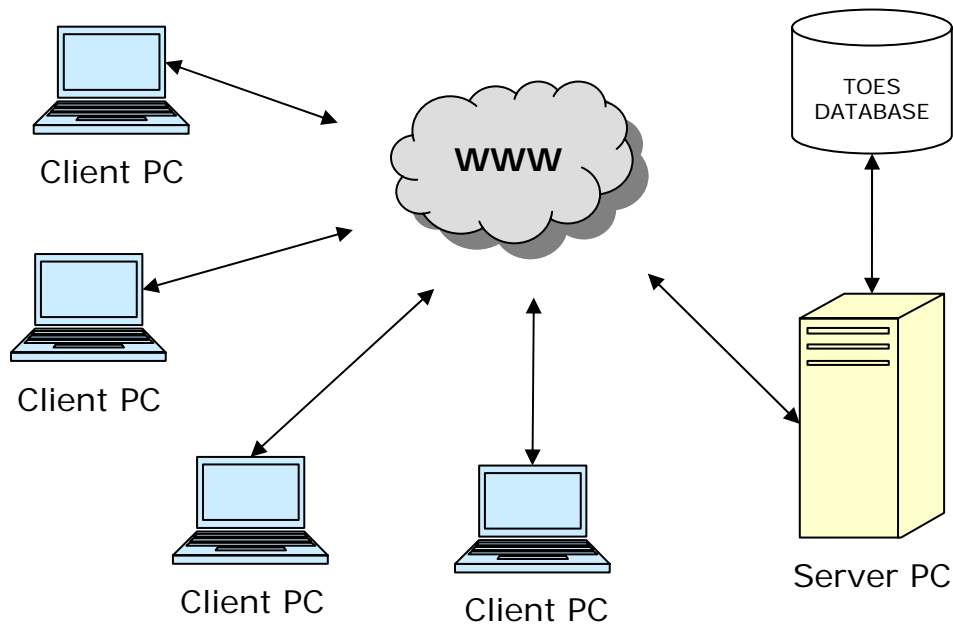


Figure 17: client-server architecture, UPM LRC TOES

1. Server

Minimum Hardware Requirements

- Intel Pentium IV 2.0 GHz or AMD equivalent processor with 1 GB RAM
- DSL internet connection

Software Requirements

- Microsoft Windows XP operating system

- Apache HTTP server v1.3.23
- PHP v4.1.1
- MySQL v3.23.48

2. Client

Minimum Hardware Requirements

- Intel Pentium IV 1.0 GHz or AMD equivalent processor with 512 MB RAM
- video card capable of displaying 1024 x 768 32 bit resolution at the minimum
- DSL internet connection

Software Requirements for all TOES users

- Windows XP or Linux operating system
- Internet Explorer v6.0 or Mozilla Firefox with enabled javascript and cookies

Specific Software Requirements for TOES Staff

- c:\toes folder must be present in the client PC where 'question templates' will be saved
- Microsoft Office Word 2002 with 'Macro Security' set to 'Medium'
- Windows XP operating system

V. RESULTS

The home page of the UP Manila LRC Tutorial and Online Examination System (TOES) is shown in Figure 18. The logo on the left is the University of the Philippines Manila logo while the figure on the right is the UP Manila Learning Resource Center logo. The menu contains the links to the login page of each TOES user type – student, tutor, staff, admin, and director.

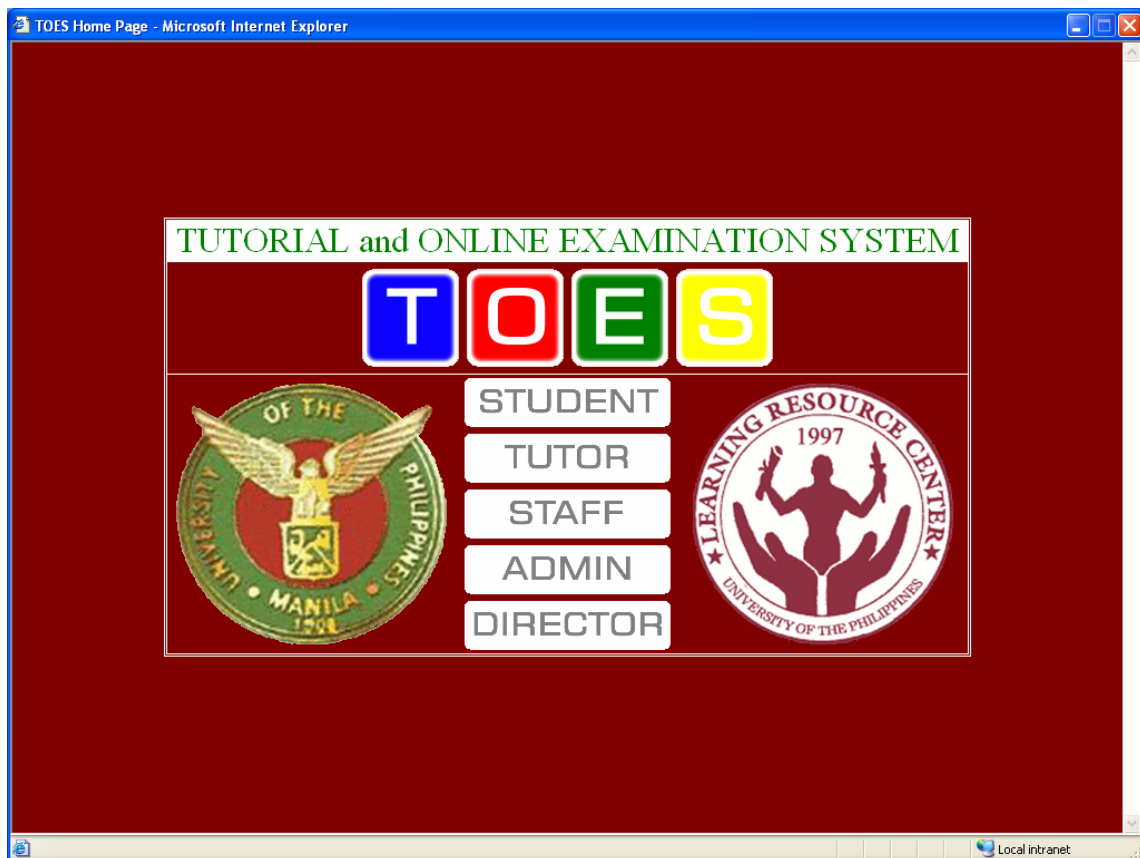


Figure 18: Home Page, UPM LRC TOES

Figure 19 shows the login page for a TOES admin. The login page for the other TOES user types is similar to this one.

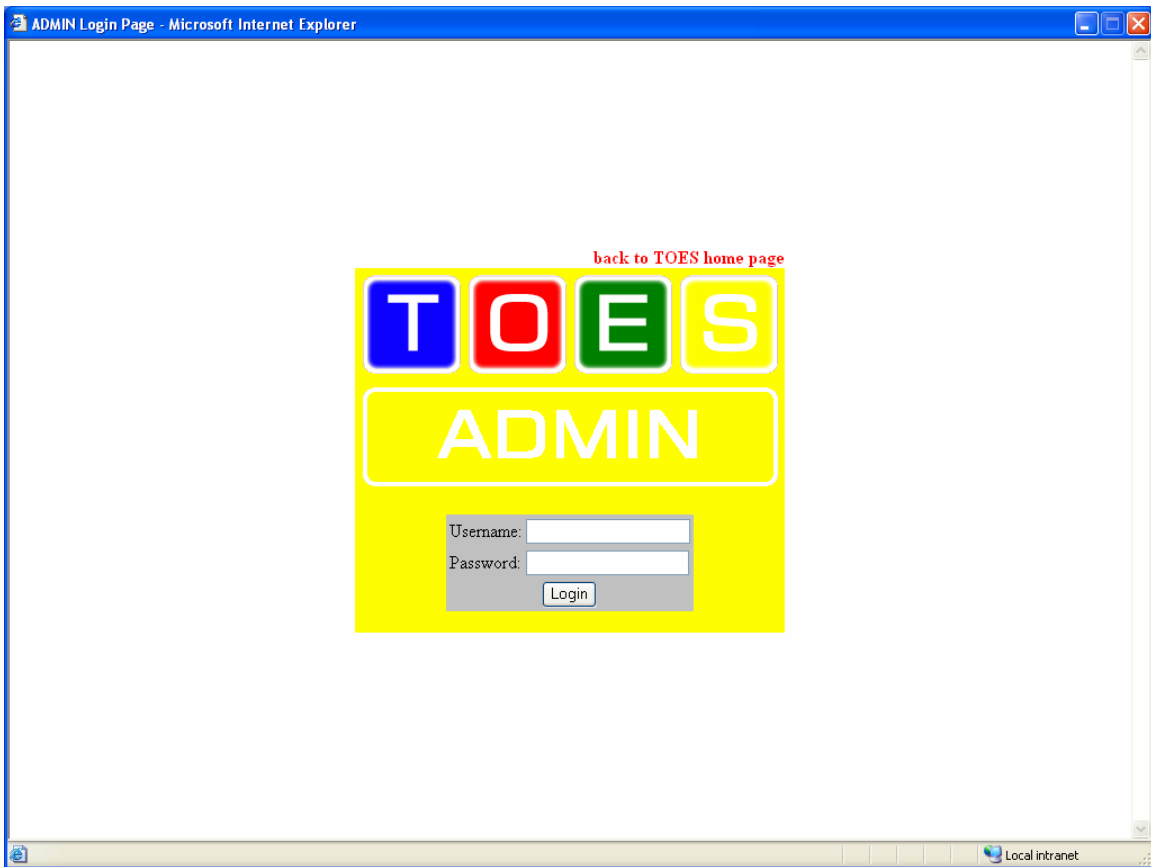


Figure 19: Admin Login Page, UPM LRC TOES

Figure 20 shows the initial TOES admin page after logging in. The main options panel is found below the TOES logo. The panel contains Tutorial, Exam, User Accounts, and My Account. The tabs below the panel - Tutorial Schedule, Tutorial Request, Peer Schedule, and Faculty Schedule are subordinate options for the main option Tutorial. All TOES user's initial page displays the page for the first subordinate option of the first main option.



Figure 20: Admin Initial Page, UPM LRC TOES

The TOES admin manages all user type accounts – student accounts, tutor accounts, and LRC accounts. Figure 21 shows the student account management page.

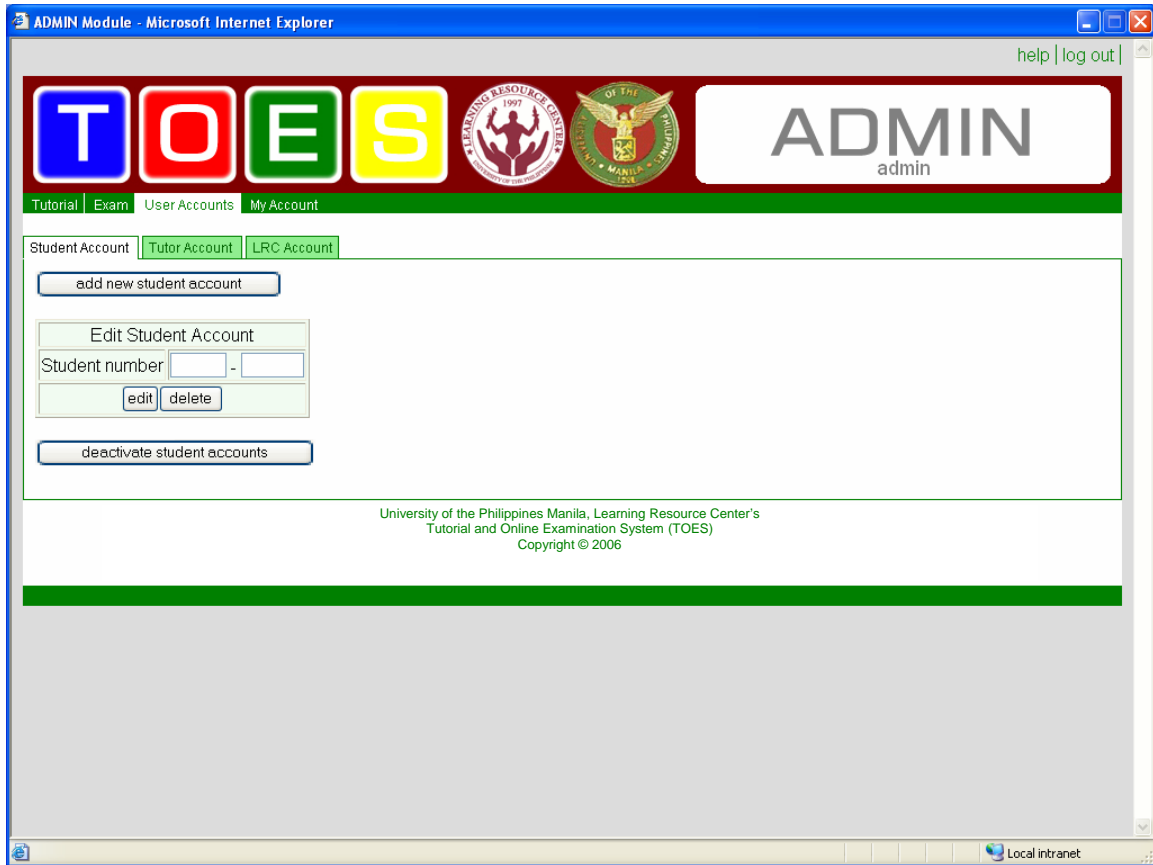


Figure 21: Student Account Management, UPM LRC TOES

Every first semester the admin requests for a copy of 'student list' for each freshman block from the Office of the University Registrar (OUR). Using these lists the admin registers new TOES student accounts using the form seen in Figure 22.

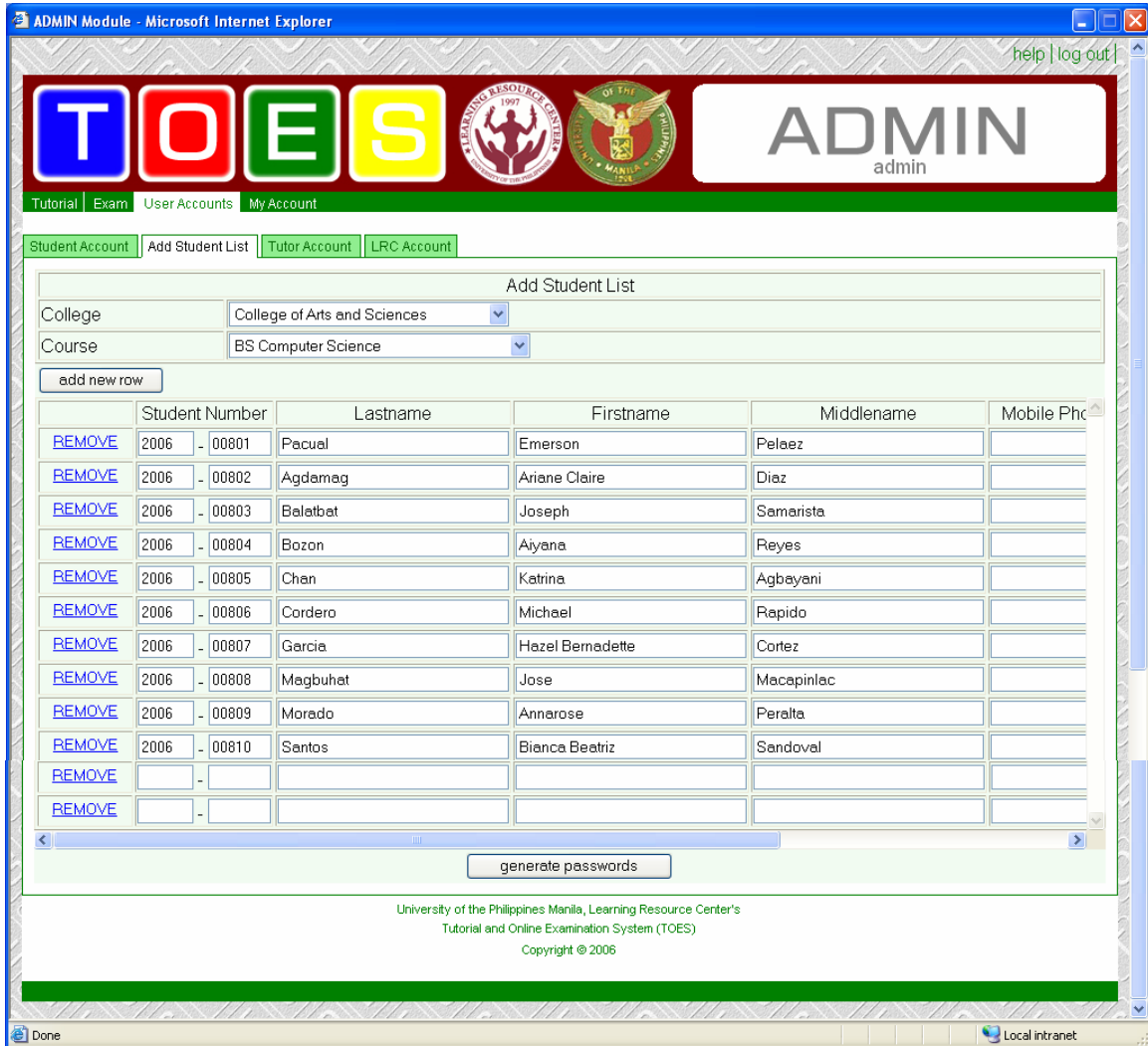


Figure 22: Add Student List, UPM LRC TOES

Each newly registered block receives a printed 'student list' that comes with a system generated password (see Figure 23). The OUR hands the printed list to freshman block coordinators (FBC) or to block heads who distribute the passwords to each student in the list. Aside from the registration of student accounts by blocks, single registration is made available for transferees from other universities (see Figure 24).

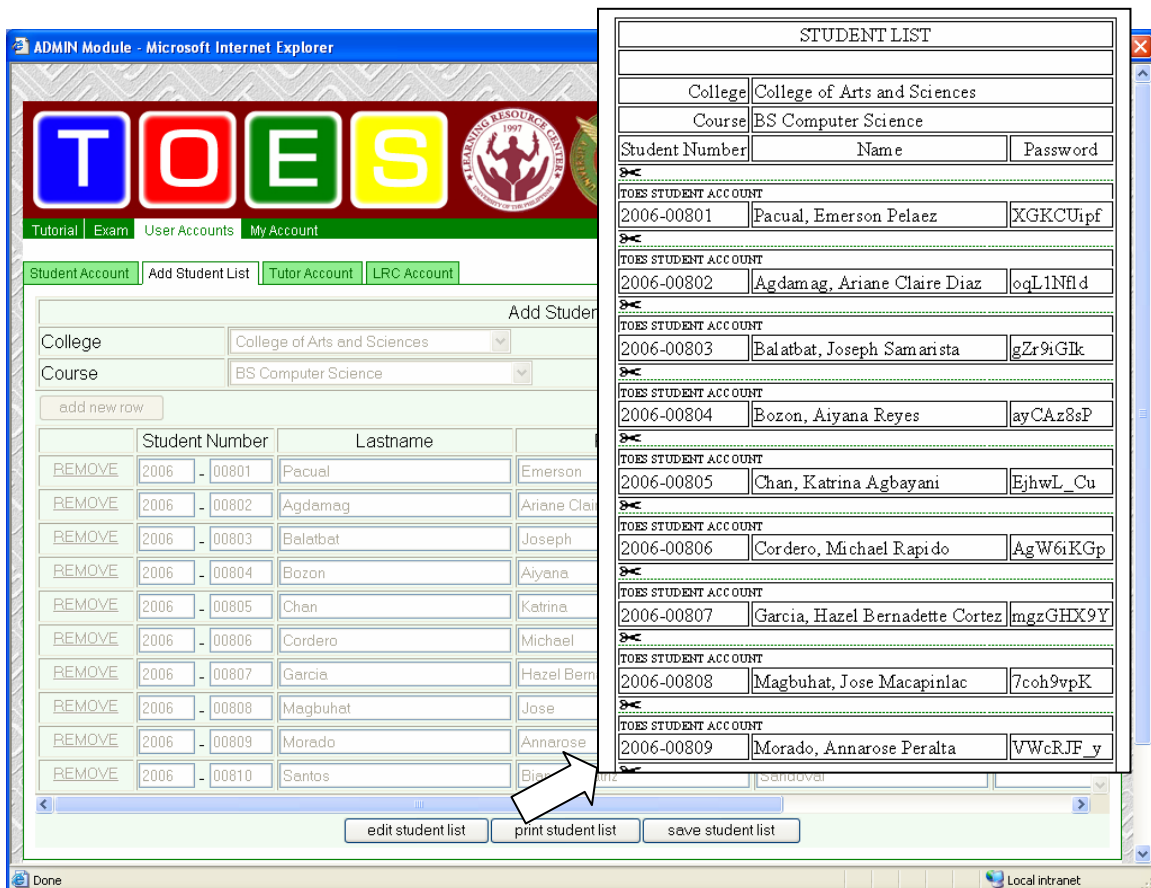


Figure 23: Printed Student List, UPM LRC TOES

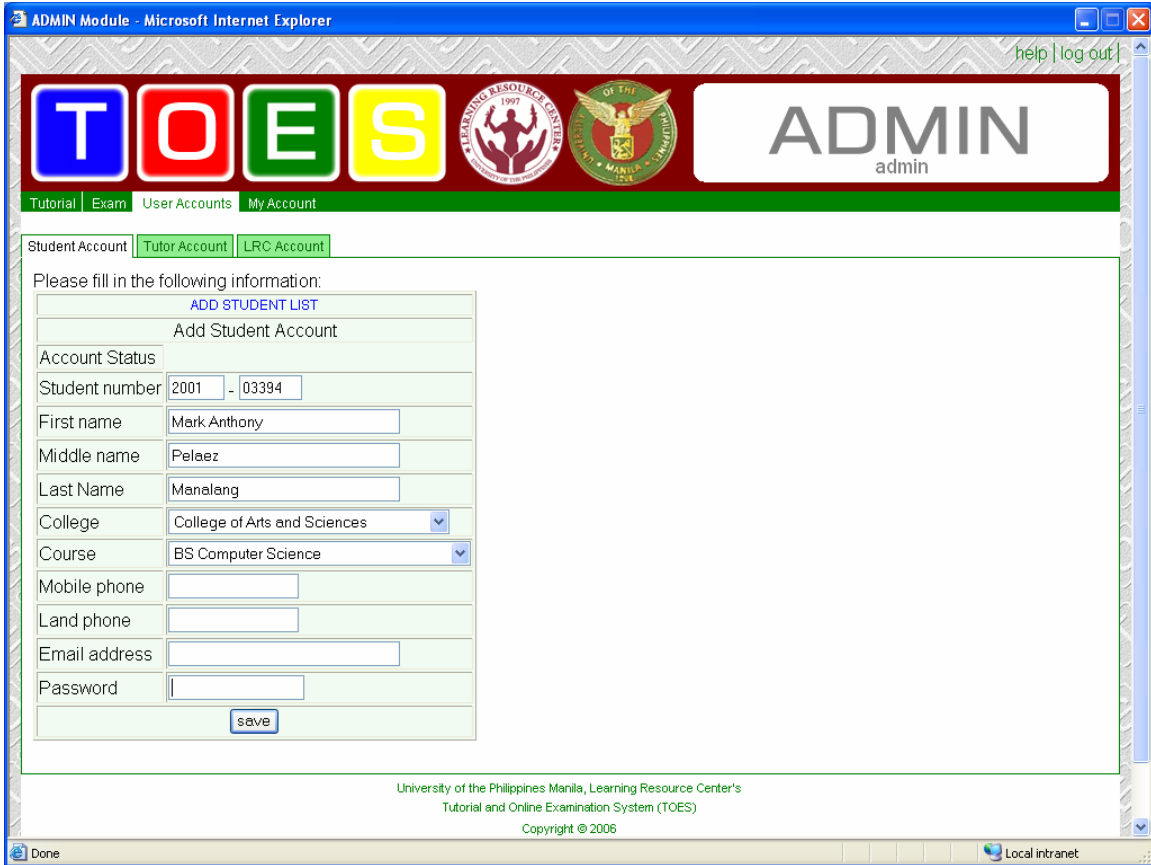


Figure 24: Single Registration of Student Account, UPM LRC TOES

The registration of a TOES student account is a one-time event while the reactivation is performed at the start of every semester. The reactivation process requires a returning student (that is with an existing TOES student account) to submit their Form 5 to the TOES admin at the LRC office. Figure 25 shows the page for editing and reactivating student accounts. At end of each semester the admin deactivates all TOES student accounts (see Figure 21).

The screenshot shows a web browser window titled "ADMIN Module - Microsoft Internet Explorer". The page header includes the TOES logo (T, O, E, S in colored boxes), the Learning Resource Center logo, and the University of the Philippines Manila logo. The word "ADMIN" is displayed in large letters with "admin" below it. Navigation links include "Tutorial", "Exam", "User Accounts", and "My Account". Below these are tabs for "Student Account", "Tutor Account", and "LRC Account". The main content area is titled "Edit Student Account" and contains a form with the following fields:

Account Status	<input type="button" value="activate account"/>
Student number	2001 - 03394
First name	Mark Anthony
Middle name	Pelaez
Last Name	Manaleng
College	College of Arts and Sciences
Course	BS Computer Science [current value]
Mobile phone	09197894512
Land phone	7507039
Email address	m33kmark@yahoo.com
Password	<input type="password"/>

At the bottom of the form are "apply changes" and "reset" buttons. The footer of the page reads: "University of the Philippines Manila, Learning Resource Center's Tutorial and Online Examination System (TOES) Copyright © 2006". The browser status bar shows "Done" and "Local intranet".

Figure 25: Edit Student Account, UPM LRC TOES

Figure 26 shows the tutor account management page. There are two types of tutor accounts – peer tutor and faculty tutor. A peer tutor is a volunteer competent UP Manila student while a faculty tutor is a resident UP Manila faculty.

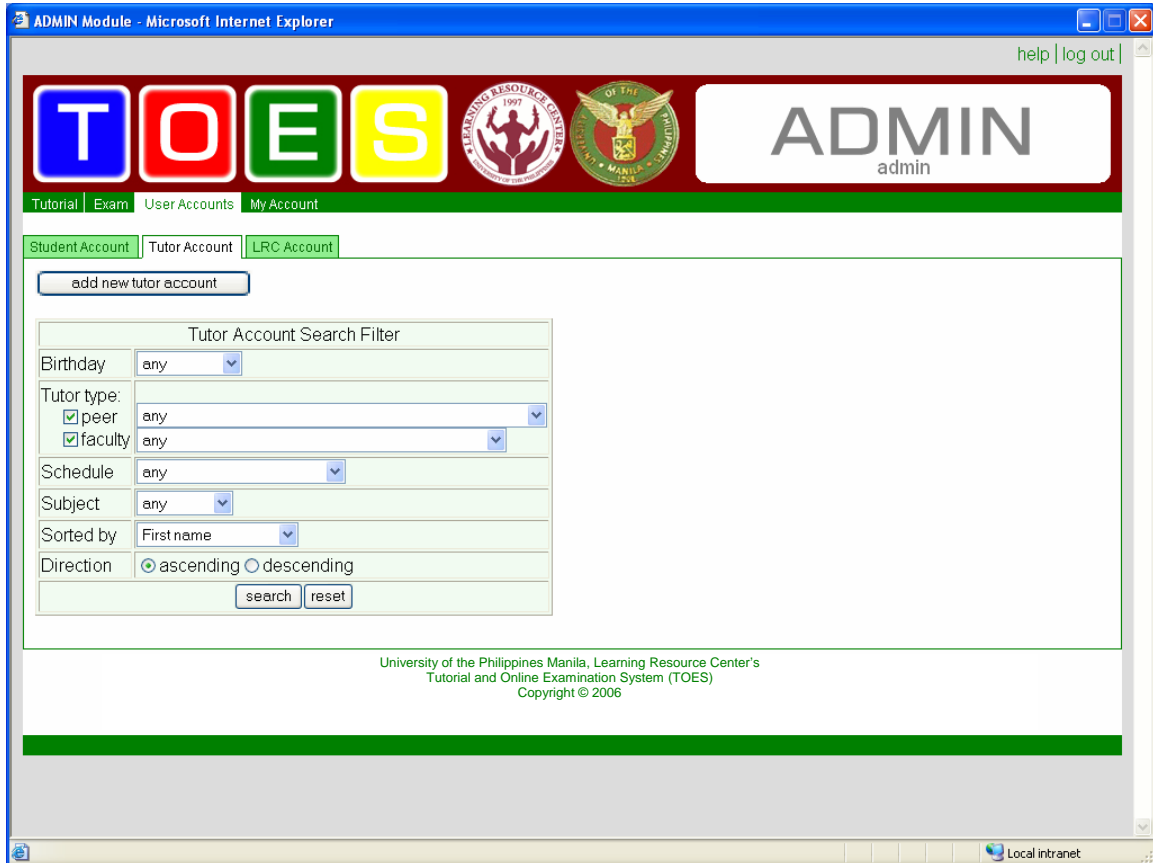


Figure 26: Tutor Account Management, UPM LRC TOES

Figure 27 shows a new peer tutor account being added. Adding a new tutor account involves supplying the initial personal information followed by the tutor schedule details. The tutor account search tool in Figure 26 is very useful when searching for tutors with desired qualities. Figure 28 shows the results in a scenario where the admin is looking for a peer tutor who is available on Monday and handles Math 17.

The screenshot shows a web browser window titled "ADMIN Module - Microsoft Internet Explorer". The page header includes the TOES logo (T, O, E, S in colored boxes), the Learning Resource Center logo, the University of the Philippines Manila logo, and the text "ADMIN admin". Navigation links include "Tutorial", "Exam", "User Accounts", and "My Account". Below these are tabs for "Student Account", "Tutor Account", and "LRC Account". The main content area is titled "Add Tutor Account" and contains a form with the following fields:

Please fill in the information needed in the following:	
Add Tutor Account	
First name	Vanessa
Middle name	Revagorda
Last Name	Gamer
Birthday	April 13 1983
Mobile phone	09179874512
Land phone	7854102
Email address	vanessa@email.com
Tutor type	<input checked="" type="radio"/> peer <input type="radio"/> faculty
Course/Department	Doctor of Medicine
Username	missvanessa
Password
<input type="button" value="save"/>	

At the bottom of the page, it says "University of the Philippines Manila, Learning Resource Center's Tutorial and Online Examination System (TOES) Copyright © 2006". The browser status bar shows "Done" and "Local intranet".

Figure 27: Add Tutor Account, UPM LRC TOES

ADMIN Module - Microsoft Internet Explorer

add new tutor account

Tutor Account Search Filter

Birthday: any
 Tutor type: peer faculty
 Schedule: at least one of the following
 Monday Tuesday Wednesday Thursday Friday
 Subject: Math 17
 Sorted by: First name
 Direction: ascending descending

search reset

	Name	Birthdate (yyy-mm-dd)	Username	Mobile phone	Land phone	Email address	Tutor type	Course/Di
edit delete	Anna Lisa Solis	1906-01-01	Solis	909099090900909	898998	Solis@email.com	peer	BS Compu
edit delete	Mary Rose Maballo	1906-01-01	Maballo			Maballo@email.com	peer	BS Biology
edit delete	Ryan Oliver Bautista	1906-01-01	Bautista			Bautista@email.com	peer	BS Biocher

Local intranet

Figure 28: Tutor Search, UPM LRC TOES

In Figure 28 the admin can also edit or delete existing tutor accounts. The edit page contains the tutor's personal information and schedule details (see Figure 29).

ADMIN Module - Microsoft Internet Explorer

help | log out |

TOES ADMIN
admin

Tutorial | Exam | User Accounts | My Account

Student Account | Tutor Account | LRC Account

Please fill in the information needed in the following:

Tutor Account Details

First name: Vanessa
 Middle name: Revagorda
 Last Name: Garner
 Birthday: April 13, 1983
 Mobile phone:
 Land phone:
 Email address: vanessa@email.com
 Tutor type: peer faculty
 Course/Department: Doctor of Medicine
 Username: missVanessa
 Password:

apply changes reset

Tutorial Subjects

Subject name	Subject description
<input type="checkbox"/> Chem 14	Chemistry 14
<input type="checkbox"/> Chem 156	Chemistry 156
<input type="checkbox"/> Chem 18	Chemistry 18

save

Timeslots

Time: Monday Tuesday Wednesday Thursday Friday

no records

Time from: 8:00 AM to: 8:00 AM

Day: Monday Tuesday Wednesday Thursday Friday

add

back to main

[About Us](#) | [Contact Us](#) | [Store](#) | [Events](#) | [Tour](#) | [Help](#) | [Terms of Service](#) | [Privacy Policy](#)
 Copyright © 2002-2005 Mekster, Inc. All rights reserved. Patent Pending.
 phpapp12

Local intranet

Figure 29: Tutor Account Edit Page, UPM LRC TOES

The LRC account management page contains the list of all LRC accounts and an add tutor form (see Figure 30). The LRC accounts available are – staff, director, and admin.



Figure 30: LRC Account Management Page, UPM LRC TOES

The add LRC account form becomes an edit LRC account form when an existing account is currently being edited. Figure 31 and 32 illustrates the difference between the add LRC account form and the edit LRC account form. Figure 31 shows a staff account being created while Figure 32 shows a director account being edited.

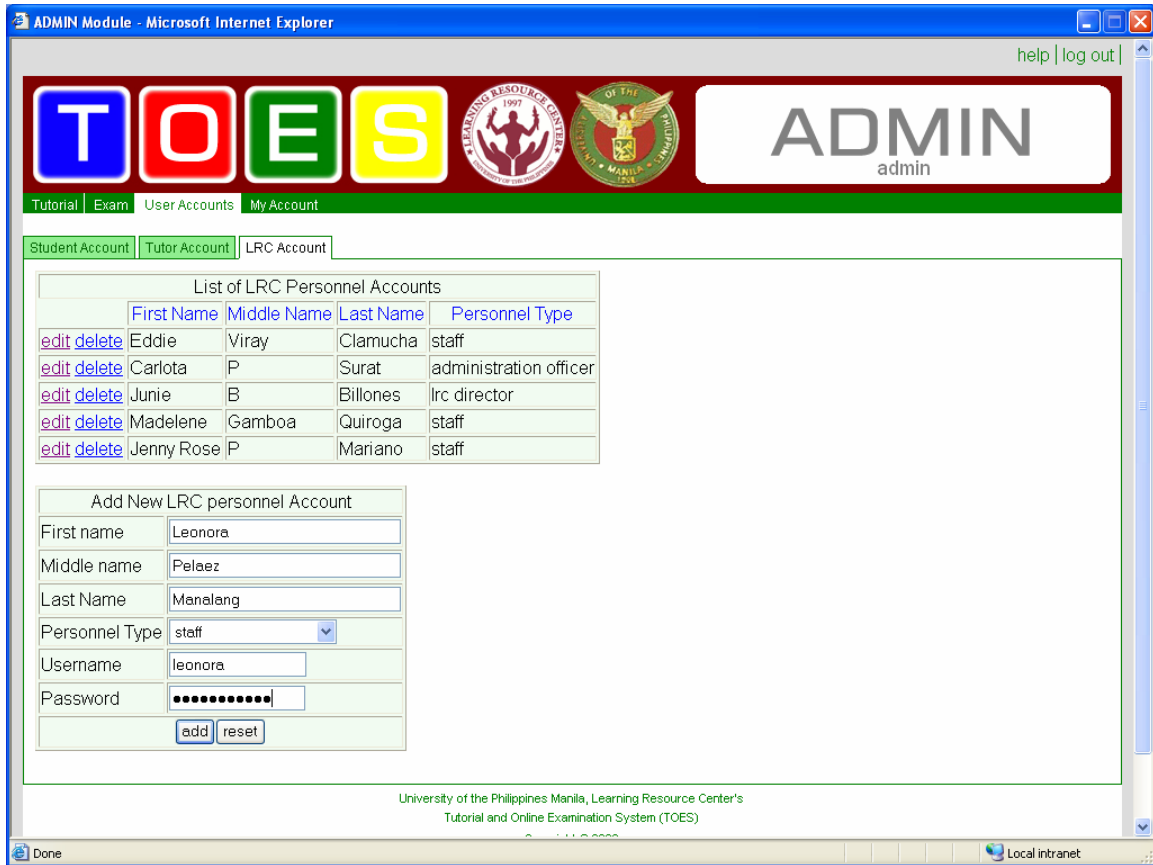




Figure 31: Add LRC Account, UPM LRC TOES

ADMIN Module - Microsoft Internet Explorer

help | log out

TOES   **ADMIN**
admin

Tutorial | Exam | User Accounts | My Account

Student Account | Tutor Account | LRC Account

List of LRC Personnel Accounts

	First Name	Middle Name	Last Name	Personnel Type
edit delete	Eddie	Viray	Clamucha	staff
-editing-	Carlota	P	Surat	administration officer
edit delete	Junie	B	Billones	lrc director
edit delete	Madelene	Gamboa	Quiroga	staff
edit delete	Jenny Rose	P	Mariano	staff

Edit LRC personnel Account

First name:

Middle name:

Last Name:

Personnel Type:

Username:

Password:

University of the Philippines Manila, Learning Resource Center's
Tutorial and Online Examination System (TOES)

Local intranet

Figure 32: Edit LRC Account Page, UPM LRC TOES

The TOES staff is responsible for managing the TOES question bank. This task includes managing subjects, topics, and questions. Questions are grouped by topics while topics are grouped by subjects. The subject management page is shown in Figure 33 while the topic management page is shown in Figure 34. Both cited pages perform add, edit, and delete processes. Topics containing questions can no longer be edited or deleted. Similarly, subjects with recorded topics can not be edited or deleted.



Figure 33: Subject Management Page, UPM LRC TOES



Figure 34: Topic Management Page, UPM LRC TOES

The LRC guarantees that TOES questions are both top notch and comprehensive by soliciting exam questions from UP Manila faculties. The question management page is displayed in Figure 35. The page contains the subordinate options – Add Question, Edit Question, and Search Question. Figures 36.1 to 36.10 explain a detailed step by step process of adding questions.

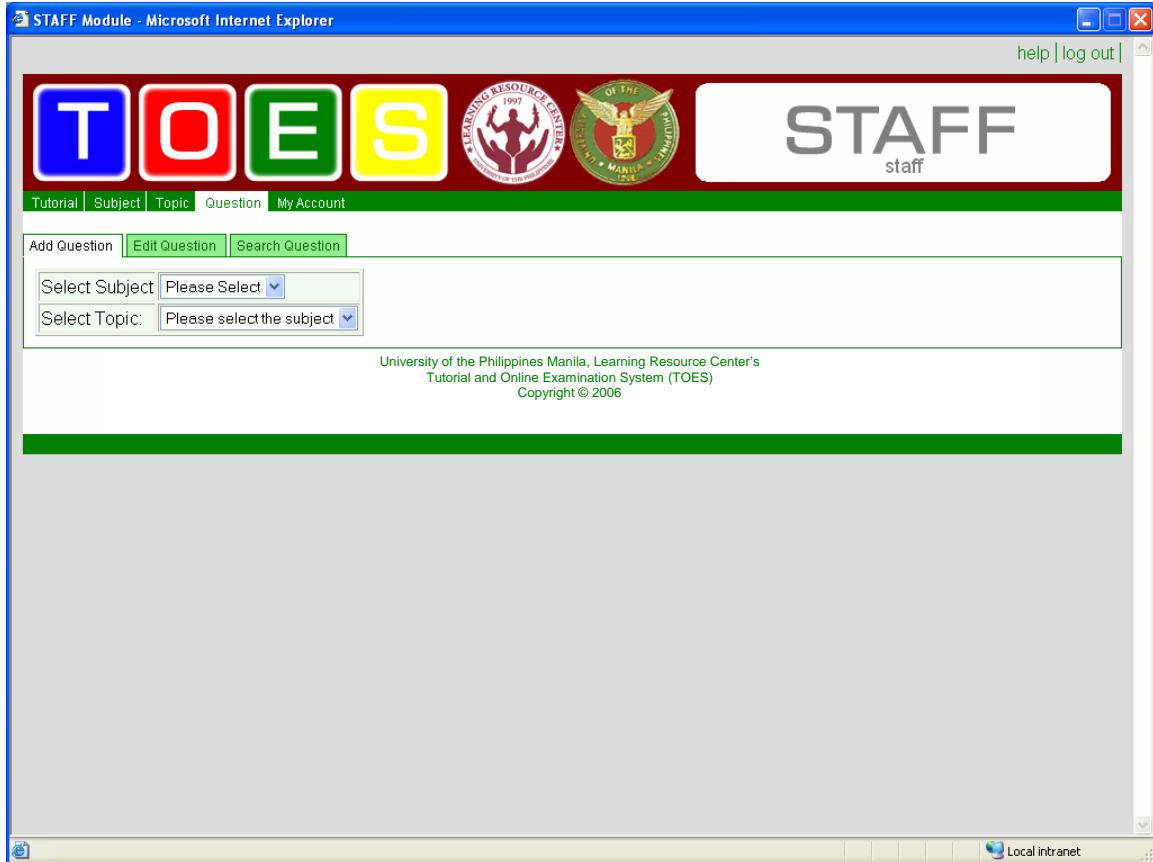


Figure 35: Question Management Page, UPM LRC TOES

Adding questions requires the following – subject, topic, author, question type, and difficulty (see Figure 36.1). This form is only displayed after specifying the subject in Figure 35.

The screenshot shows a web browser window titled "STAFF Module - Microsoft Internet Explorer". The page header includes the TOES logo (T, O, E, S in colored boxes), the Learning Resource Center logo, the University of the Philippines Manila logo, and the "STAFF staff" logo. Navigation links for "Tutorial", "Subject", "Topic", "Question", and "My Account" are present. The "Add Question" tab is active, showing a form with the following fields:

- Select Subject: Math 17
- Select Topic: [4] Circular Functions
- Author: (text input)
- Question Type: true or false, multiple choice, matching type
- Difficulty: very easy, easy, medium, hard, very hard

A "create question" button is located at the bottom of the form. The footer text reads: "University of the Philippines Manila, Learning Resource Center's Tutorial and Online Examination System (TOES) Copyright © 2006". The browser's status bar shows "Local intranet".

Figure 36.1: Add Question, UPM LRC TOES

Figure 36.2 displays the question properties that were supplied by the staff in Figure 36.1. TOES questions supports multimedia file attachments which can be uploaded via the Files form. Multimedia files can either be sound files, movie files, or animation files. Figure 36.3 shows a Macromedia Flash file being uploaded.

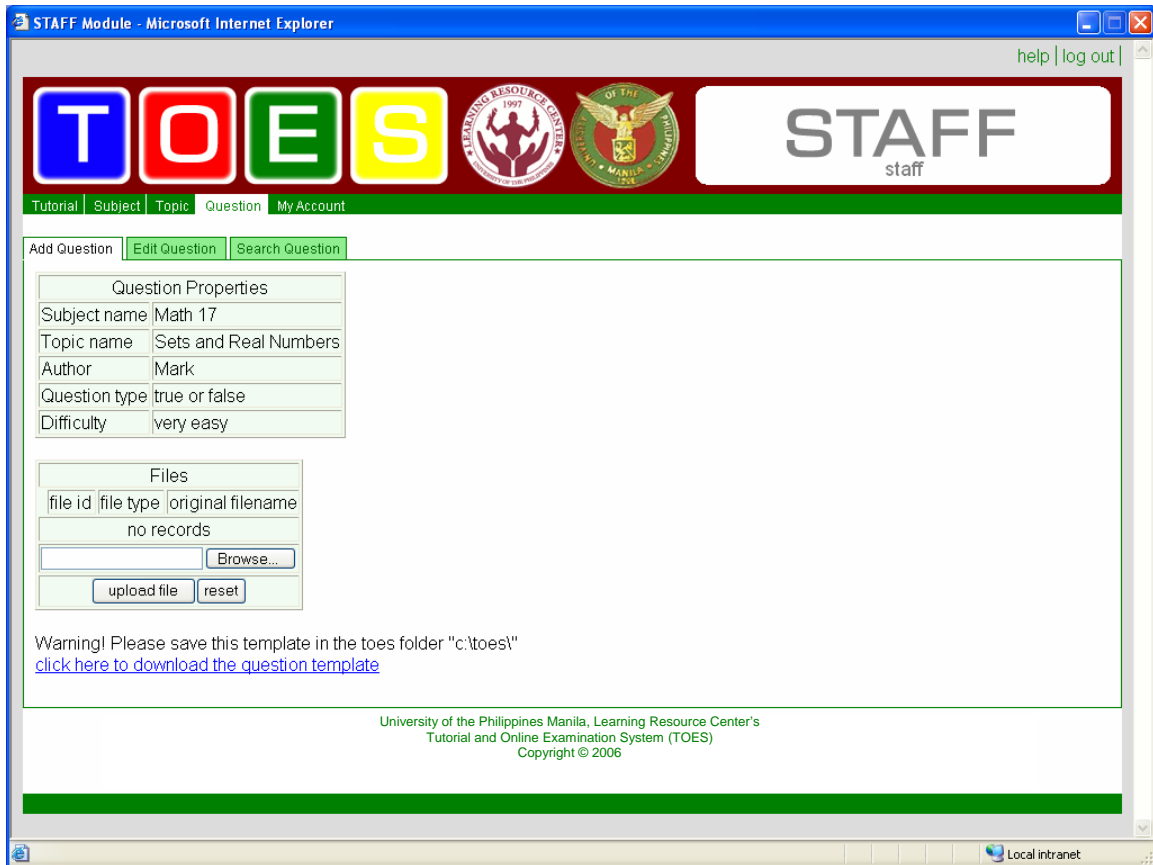


Figure 36.2: Add Question, UPM LRC TOES

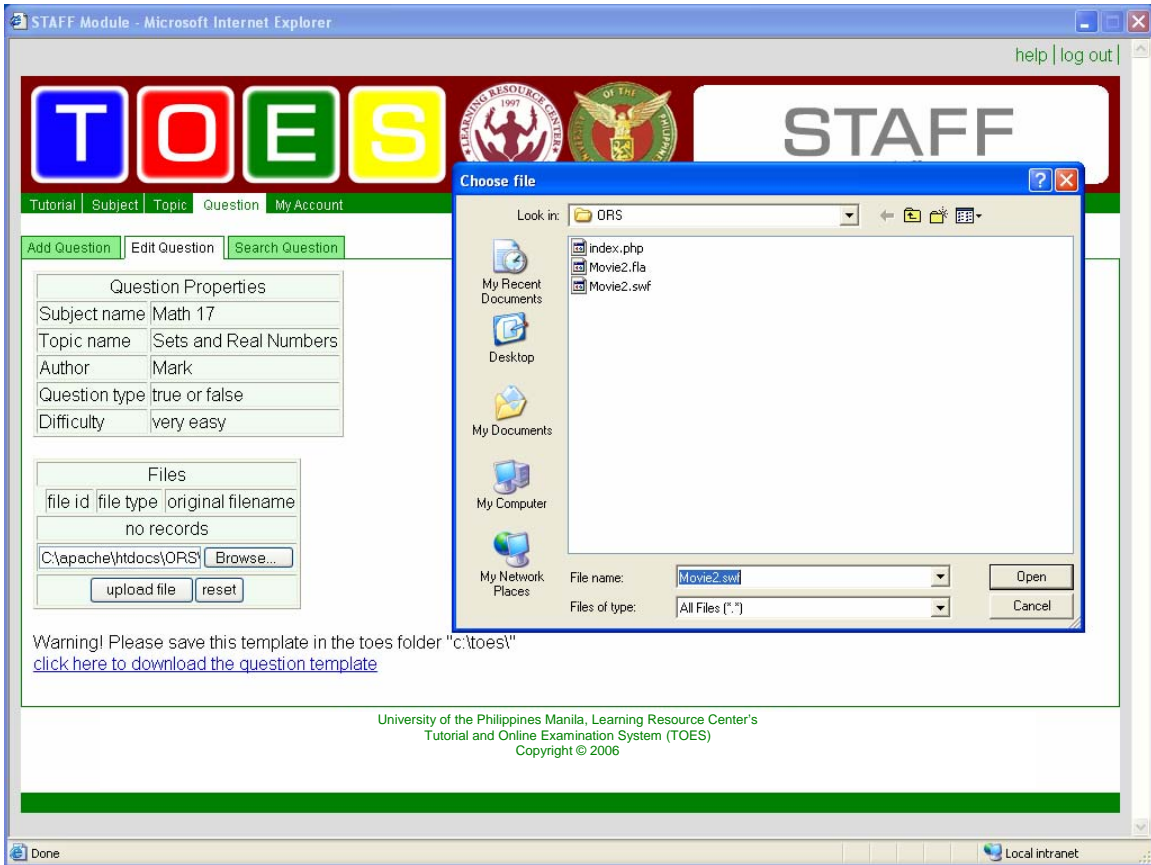


Figure 36.3: Add Question, UPM LRC TOES

Once the necessary file attachments are uploaded the staff downloads the question template (see Figure 36.4) and saves it locally in the C:\toes folder (see Figure 36.5). After the download completes the staff opens the local question template (see Figure 36.6) and enables macro script (see Figure 36.7).

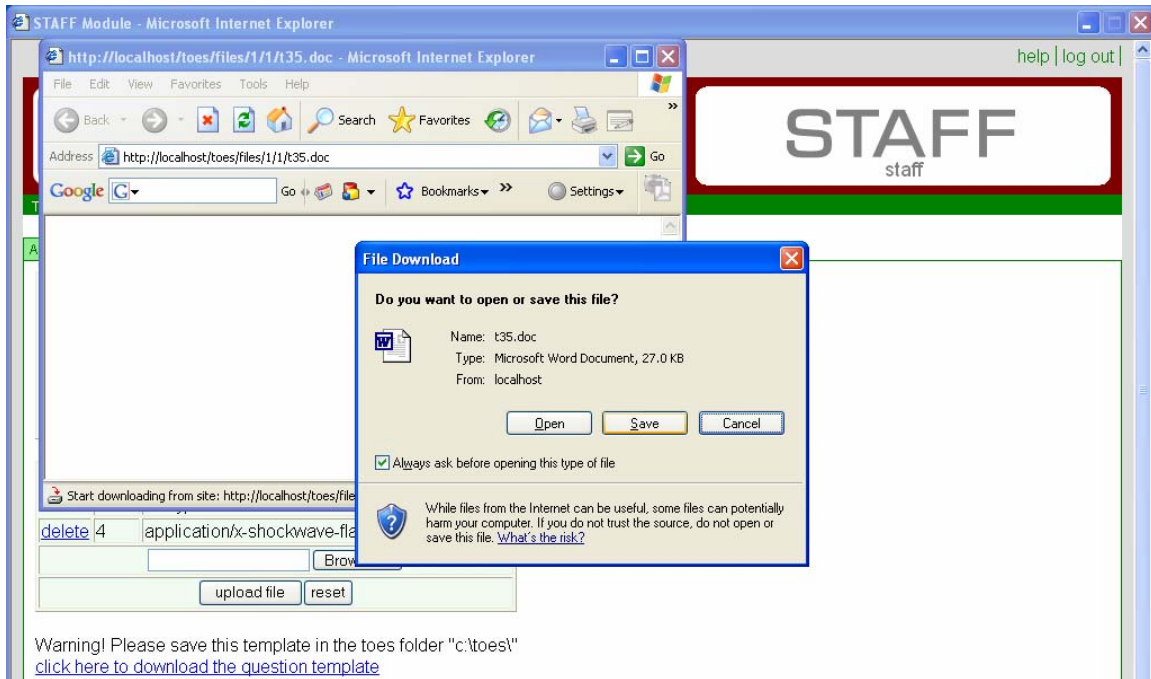


Figure 36.4: Download Question Template, UPM LRC TOES

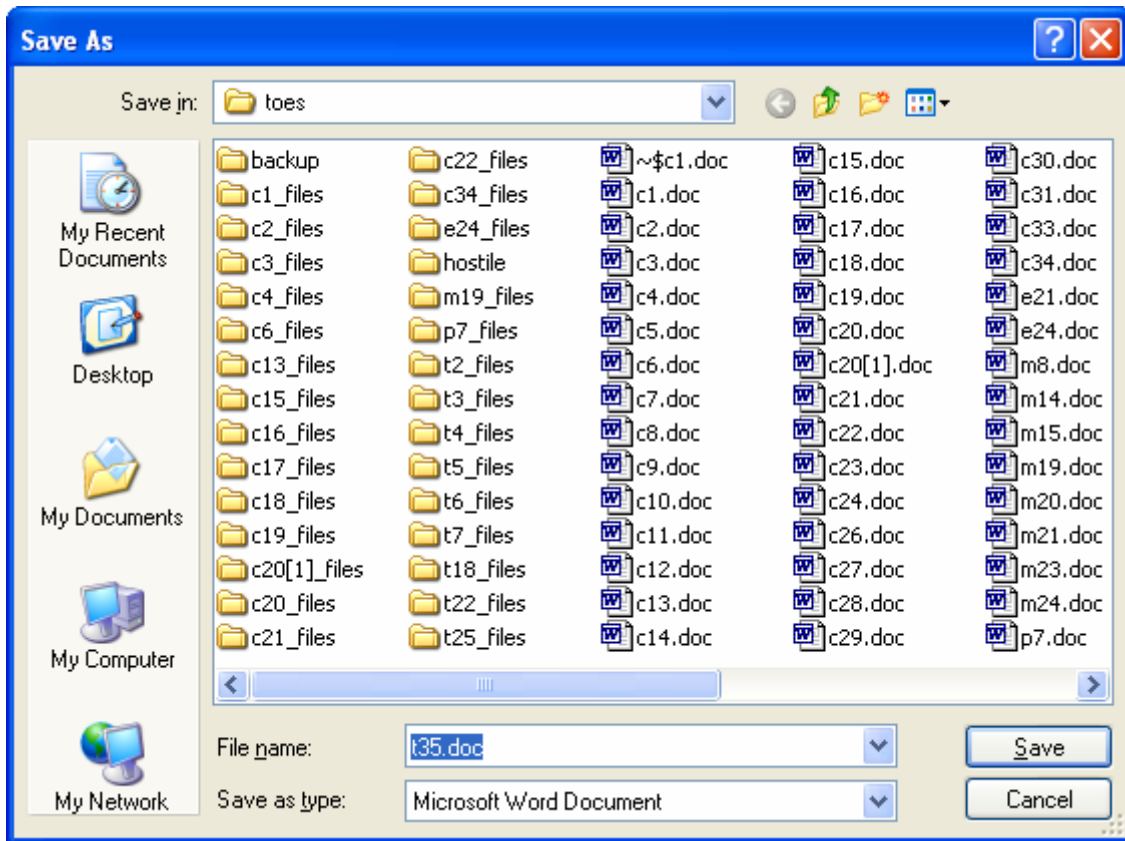


Figure 36.5: Save Question Template, UPM LRC TOES

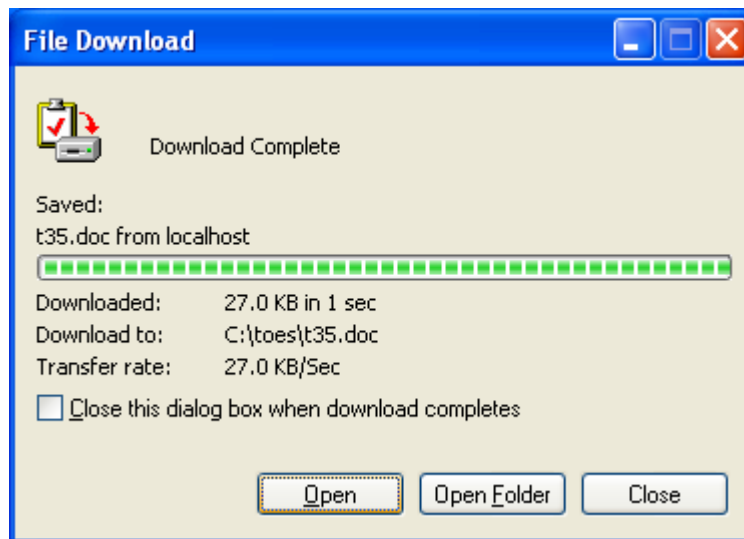


Figure 36.6: Open Local Question Template, UPM LRC TOES

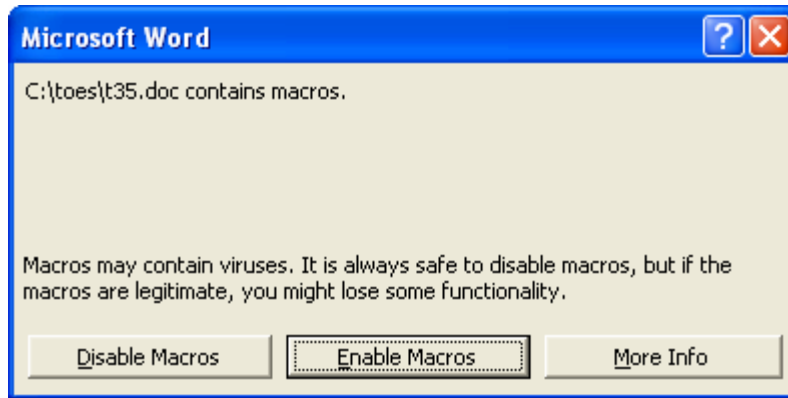


Figure 36.7: Enable Macro Scripts, UPM LRC TOES

Figures 36.8.1 to 36.8.3 shows the question template for each question type. The templates serve as a guide when constructing questions. The templates contain clickable texts called Macro Buttons. These buttons carry descriptive texts that describe their function. They precisely instruct the staff where question elements should go.

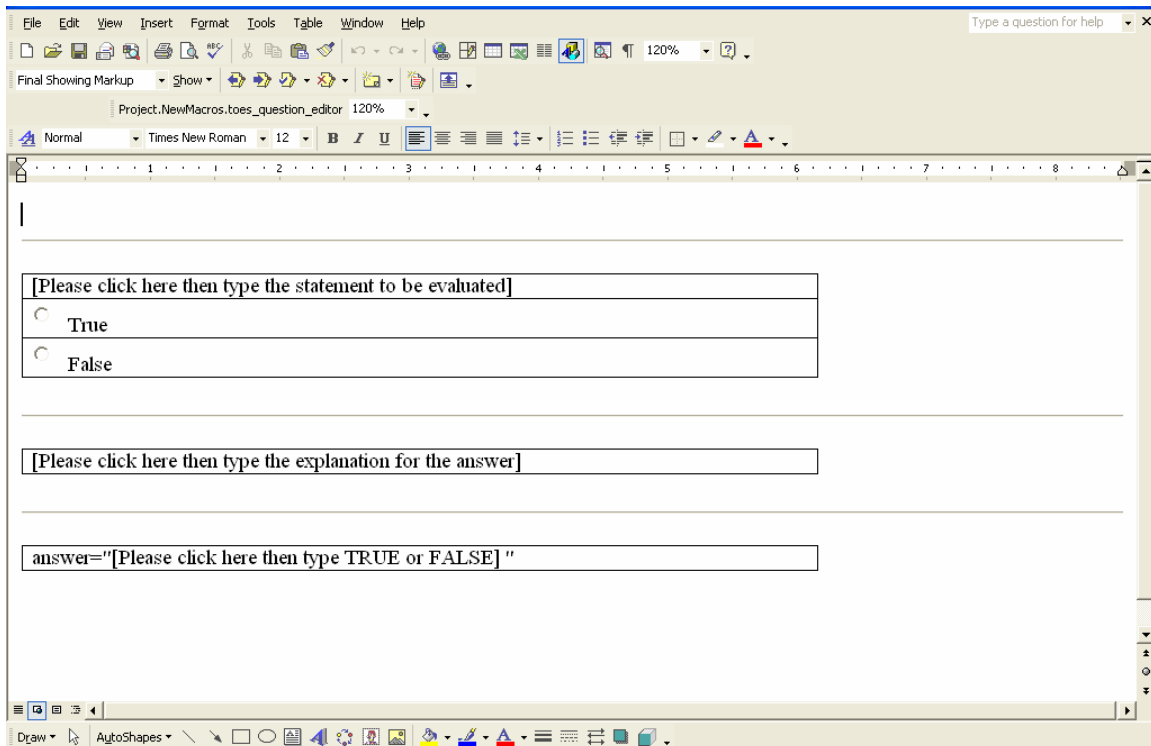


Figure 36.8.1: True or False Question Template, UPM LRC TOES

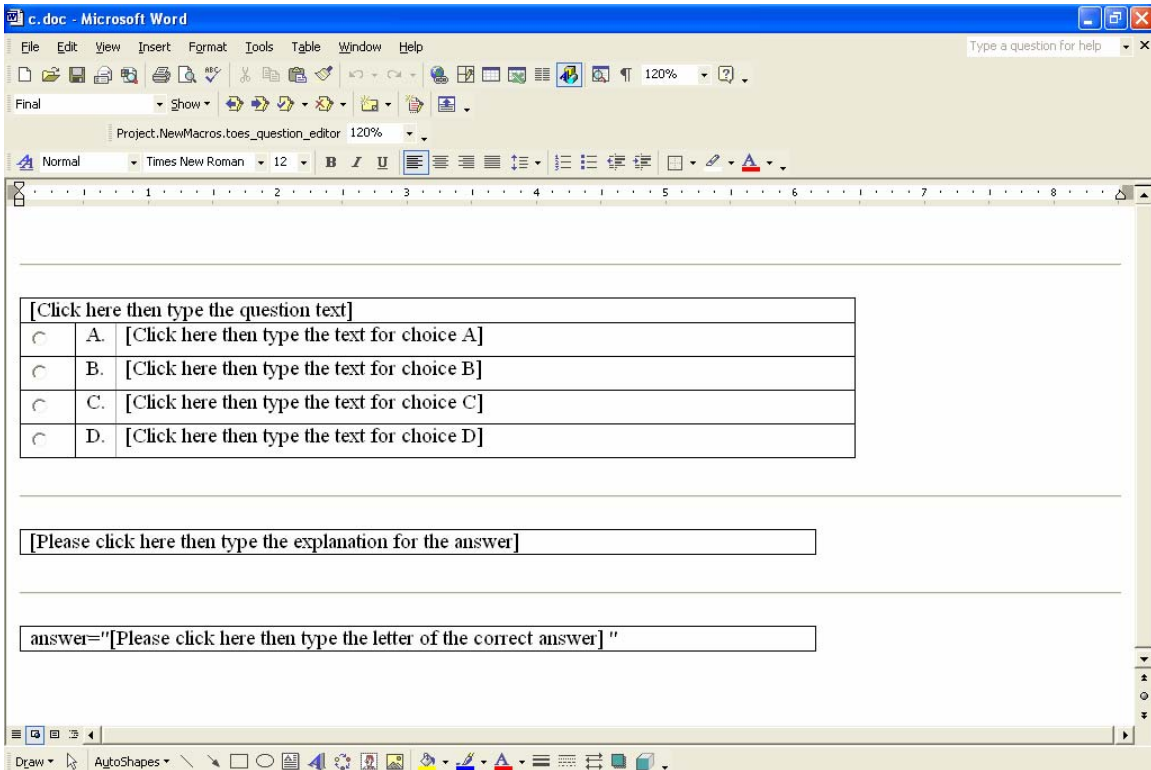


Figure 36.8.2: Multiple Choice Question Template, UPM LRC TOES

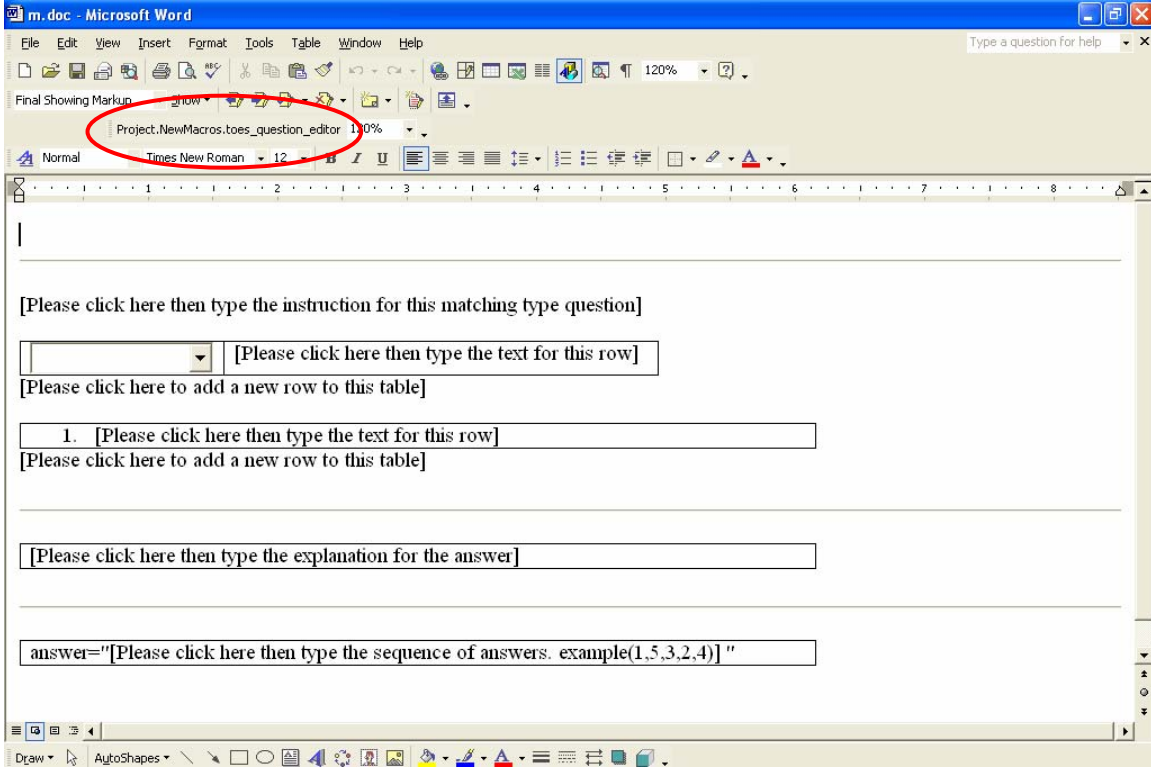


Figure 36.8.3: Matching Type Question Template, UPM LRC TOES

Each question template contains a toes_question_editor toolbar highlighted in Figure 36.8.3. This toolbar launches the Toes Question Editor Form (Figure 36.9) which is a compact tool that contains all the necessary functionalities needed in question construction. Inserting the uploaded file attachments (see Figure 36.3) require keying in the 'file id' in (1) then pressing (2). (3) is used for inserting image files. (4) launches the Microsoft Equation Editor. (5) resets the question template in its original form. (6) saves the question template into a .doc and .htm file.

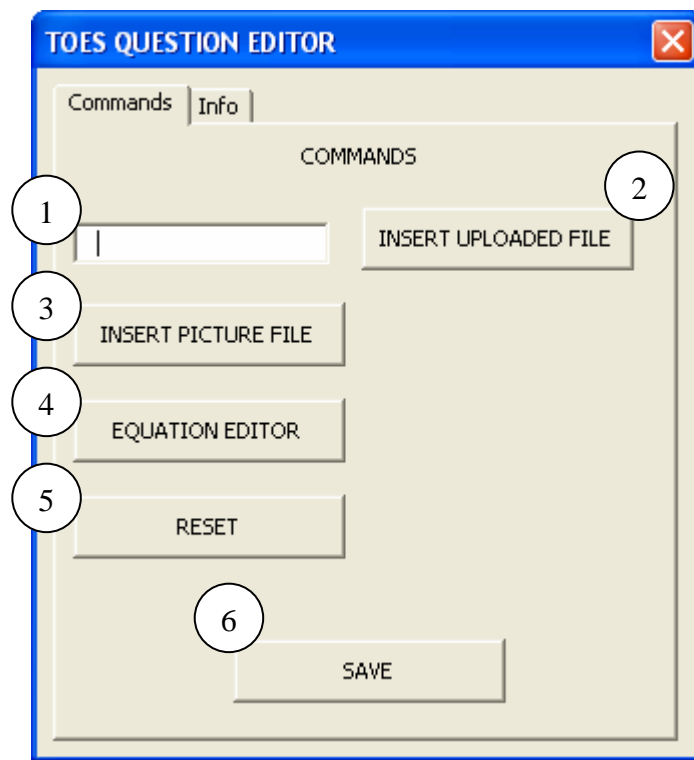


Figure 36.9: Toes Question Editor Form, UPM LRC TOES

Lastly the staff uploads the .doc and .htm file (see Figure 36.10). TOES Question Bank keeps the .doc file to allow future question modifications. On the other hand, the .htm is solely used for browser display.

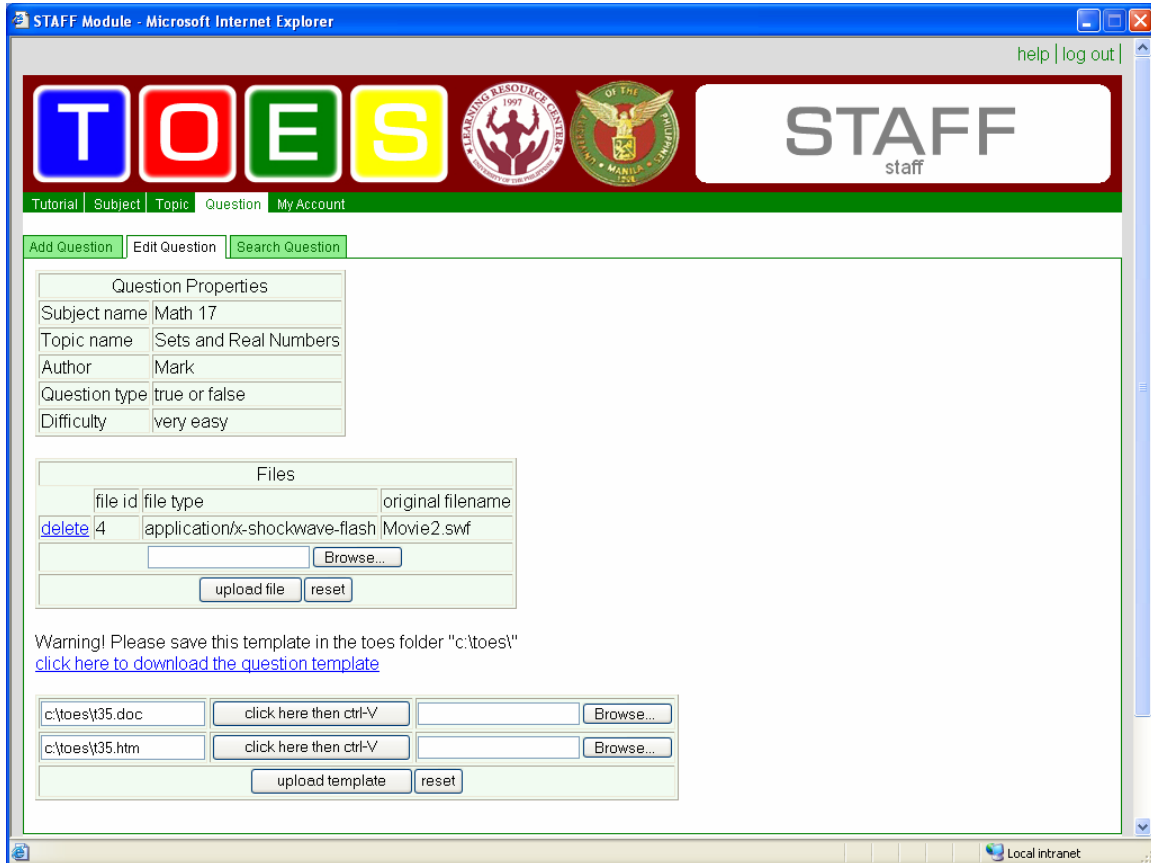


Figure 36.10: Uploading .doc and .html File, UPM LRC TOES

The question search page allows the staff to perform a thorough search for a desired set of questions (see Figure 37). The staff may edit, delete, or preview a question from the resulting question set. Questions can be edited or deleted as long as they are not yet used in any exam. In addition to the preliminary view of the question in the search results page, the preview offers an interactive view (see Figure 38).



Figure 37: Question Search Page, UPM LRC TOES

T O E S
QUESTION
PREVIEW

Back Next Jump To: EXIT

Question Number: 1
Question Type: MULTIPLE CHOICE

Which of the following is the least common denominator of $\frac{x}{x^2-1}$, $\frac{2}{x^2-3x+2}$ and $\frac{3x}{x-x^2}$?

<input type="radio"/>	A. $-x(x-1)^3(x-2)(x+1)$
<input checked="" type="radio"/>	B. $-x(x-1)(x-2)(x+1)$
<input type="radio"/>	C. $x(x-1)(x-2)(x+1)$
<input type="radio"/>	D. $x(x-1)^3(x-2)(x+1)$

$\frac{x}{(x+1)(x-1)}, \frac{2}{(x-2)(x-1)}, -\frac{3x}{x(x-1)}$
 therefore the LCM is
 $-x(x+1)(x-1)(x-2)$

Your answer: INCORRECT

Figure 38: Question Preview, UPM LRC TOES

With sufficient amount of questions in the Question Bank the TOES admin creates exams automatically or manually (see Figure 39).

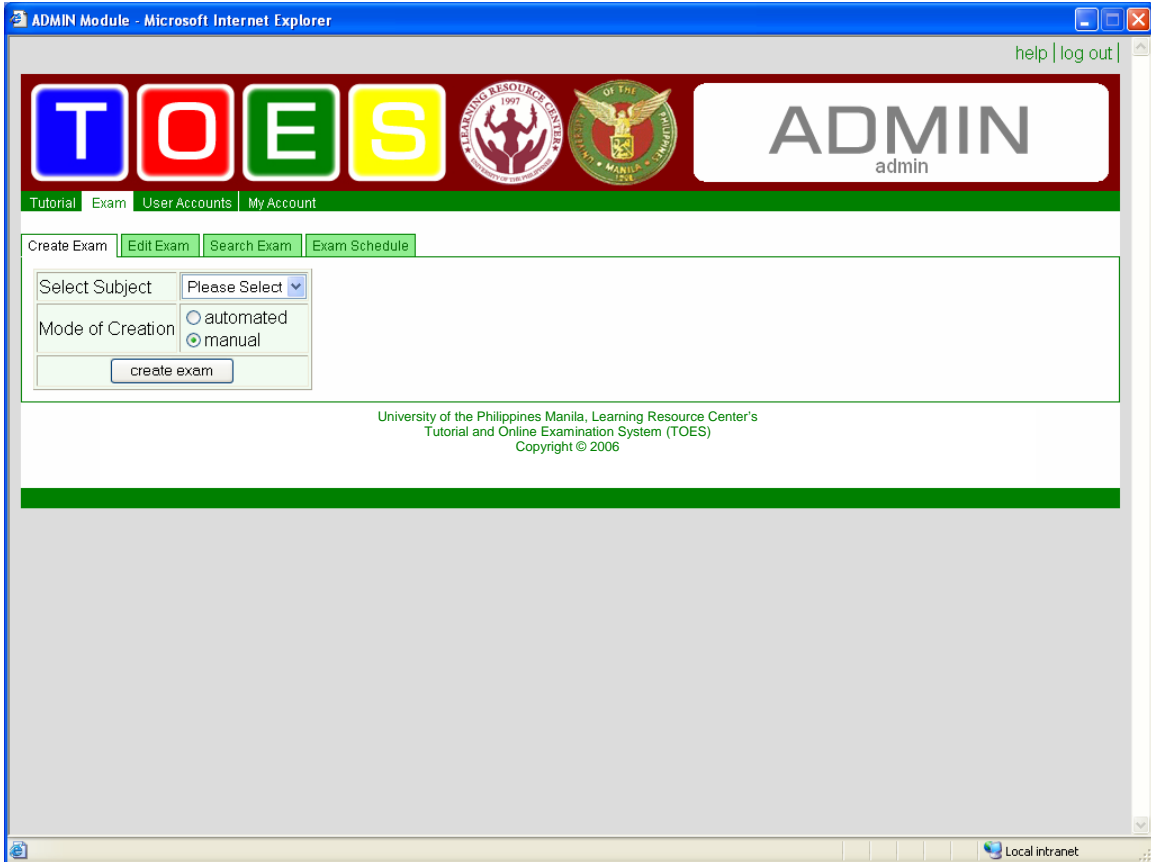


Figure 39: Create Exam, UPM LRC TOES

In an automatic exam creation the admin provides a descriptive Exam Coverage filters which selects questions based on different combinations of criteria – question type, difficulty (as defined by the question author), and item statistics (see Figure 40).

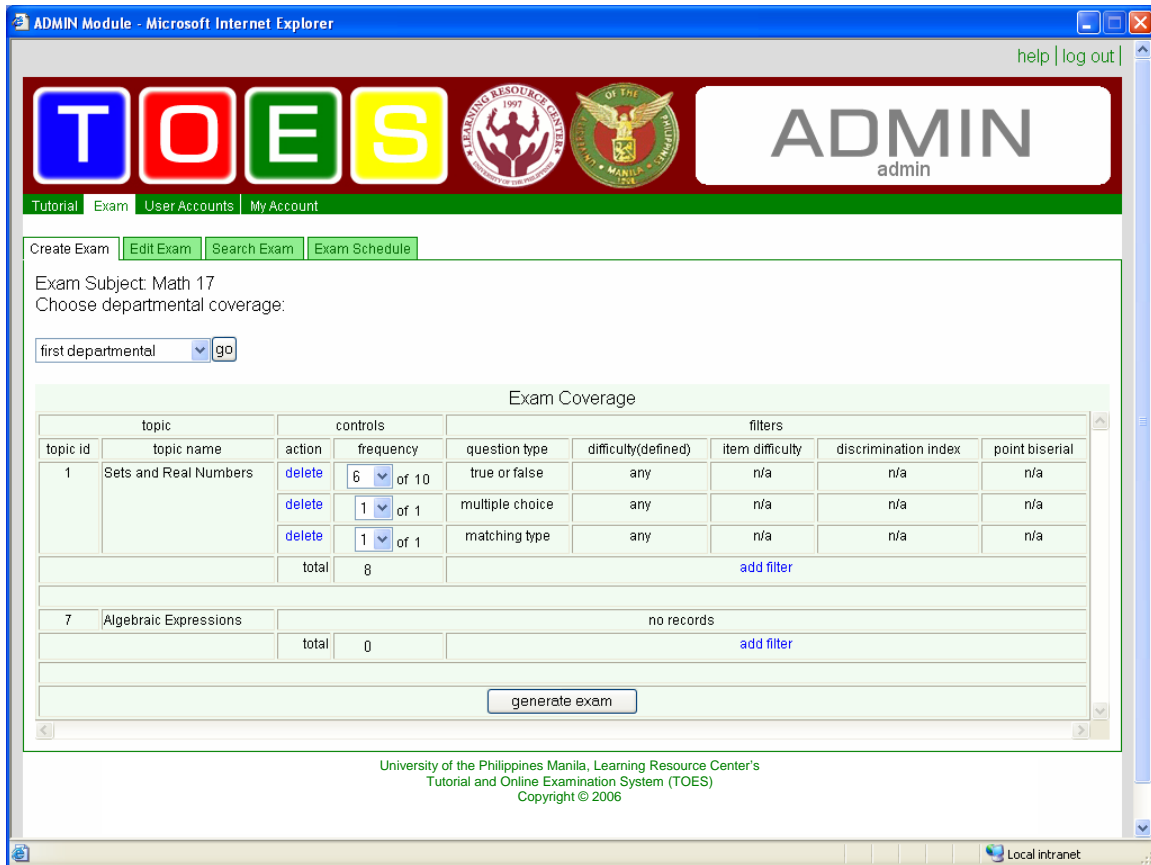


Figure 40: Automatic Exam Creation, UPM LRC TOES

Filters can be added in Figure 40 using the Filter Generator Module in Figure 41. The admin specifies the combination then the generator dynamically displays the number of relevant of questions from which a required quantity will be drawn.

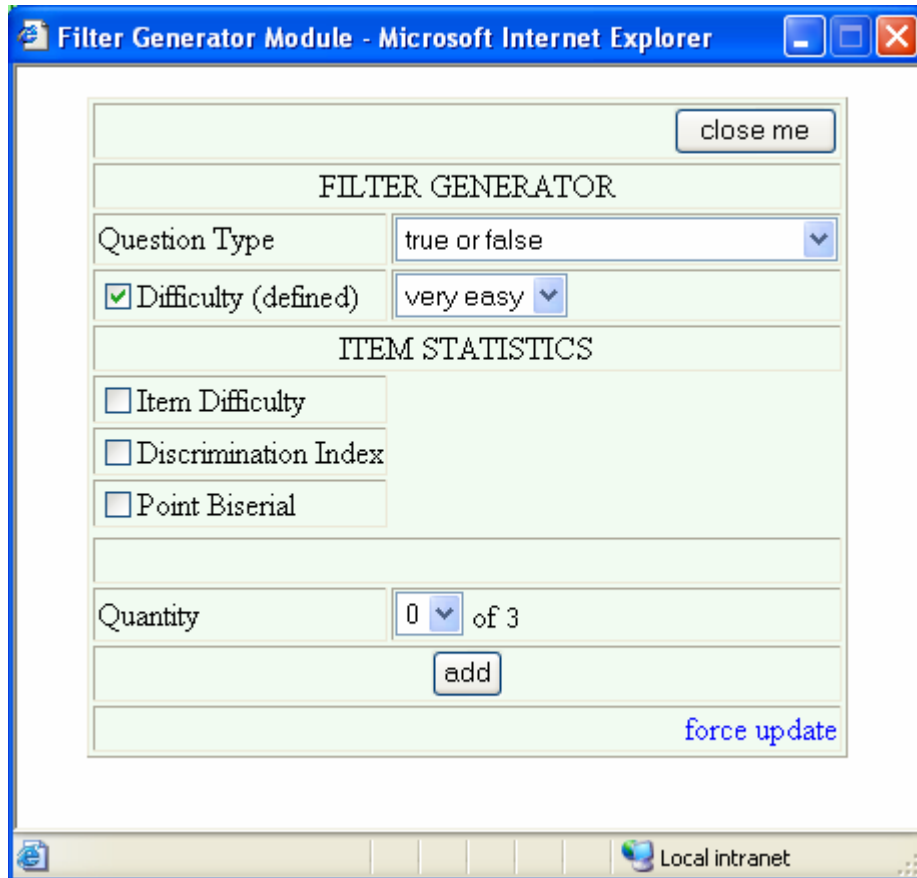


Figure 41: Filter Generator, UPM LRC TOES

The edit exam page is shown in Figures 42.1 to 42.3. The automatically generated exam is shown in Figure 42.1. The page contains the exam details and the exam coverage details. The latter provides a detailed summary of the exam items. These exam items can be added by using their question id (Figure 42.2) or by selecting them from a question query result. In the first method the exam items are grouped by question type. Also, they can - be minimized/maximized individually or by group, be previewed, and be given weights. The second method lacks the functionalities found in the first method, however, provides an indispensable question search tool (see Figure 42.3). Switching between these methods is done with a simple click of a button. Manually creating an exam, on the other hand, starts with a blank exam coverage details.

The screenshot shows the 'ADMIN Module' interface in Microsoft Internet Explorer. The page title is 'ADMIN Module - Microsoft Internet Explorer'. The user is logged in as 'admin'. The navigation menu includes 'Tutorial', 'Exam', 'User Accounts', and 'My Account'. The main content area has buttons for 'Create Exam', 'Edit Exam', 'Search Exam', and 'Exam Schedule'. A message states 'message: now displaying the auto generated exam.' Below this is the 'EXAM DETAILS PREVIEW' section with the following information:

Exam Id	9
Subject	Math 17
Departmental Number	first departmental
Description	first departmental exam for Math 17
Author	
Alloted Time	00:00:00 mins
Date Created	2006-10-05 06:23:32

Below the exam details is the 'Exam Coverage Details' section, which contains a table with the following data:

question id	topic	question type	difficulty	item difficulty	discrimination index	point biserial
19	Sets and Real Numbers	matching type	easy	64.17	-0.88	0.71
10	Sets and Real Numbers	multiple choice	easy	25	-0.375	0.24
2	Sets and Real Numbers	true or false	very easy	0	0	0
35	Sets and Real Numbers	true or false	very easy			
7	Sets and Real Numbers	true or false	easy			
4	Sets and Real Numbers	true or false	easy	0	0	0
9	Sets and Real Numbers	true or false	easy	0	0	0
5	Sets and Real Numbers	true or false	easy			

Figure 42.1: Edit Exam, UPM LRC TOES

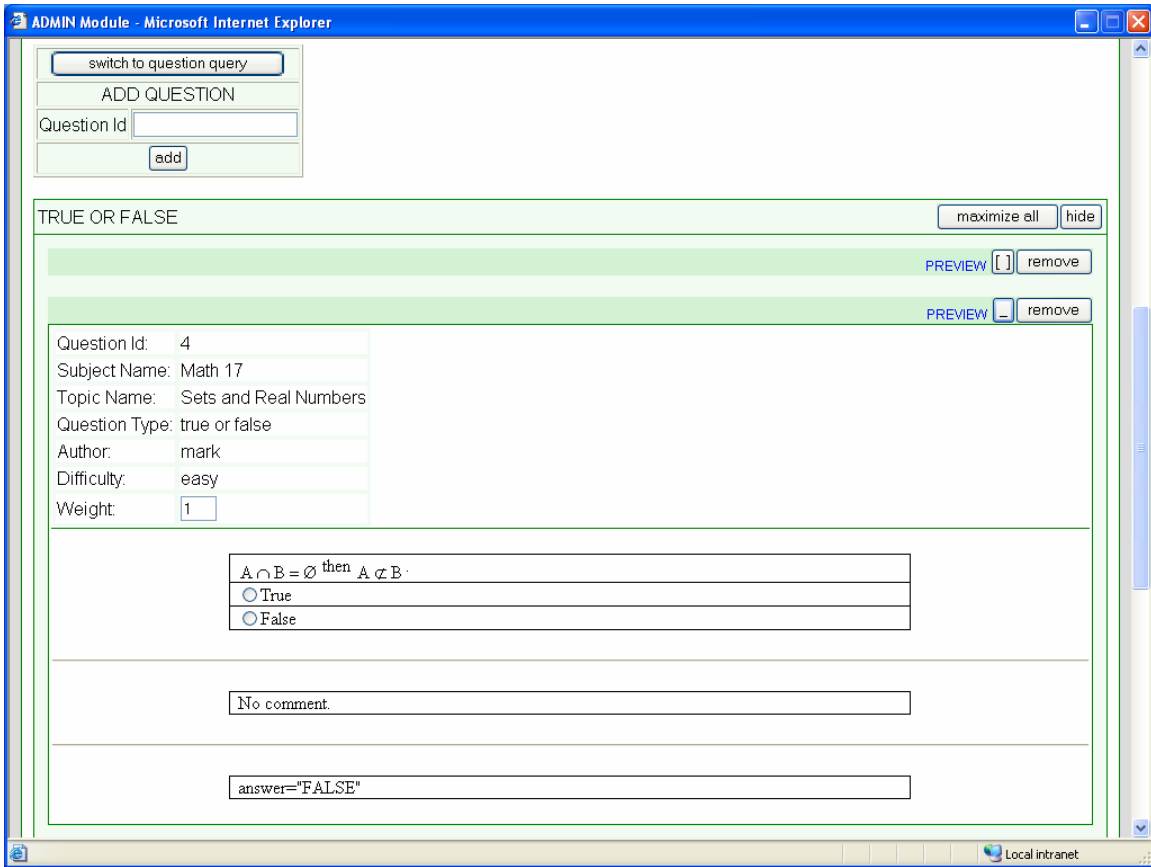


Figure 42.2: Edit Exam - Adding by Question Id, UPM LRC TOES

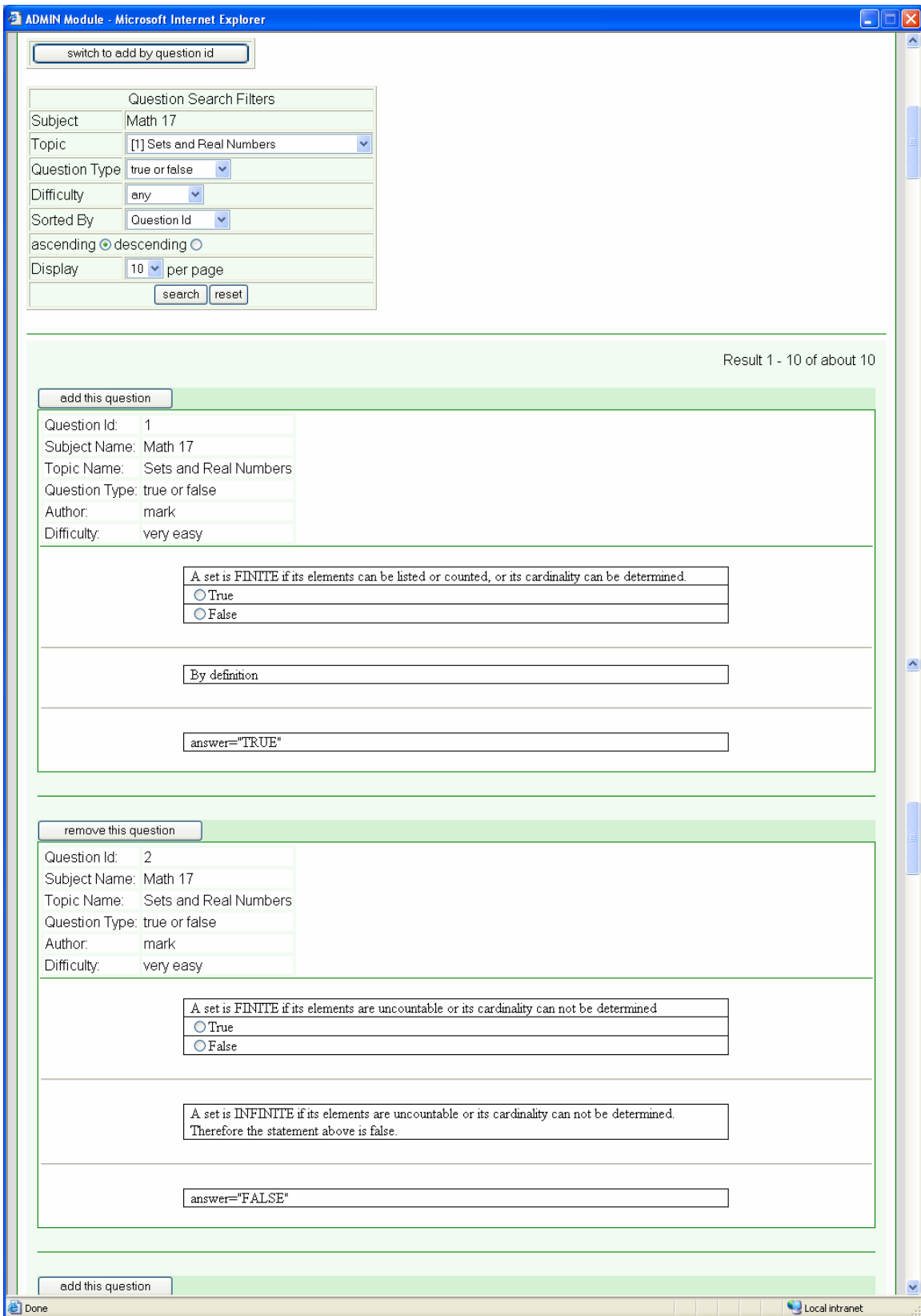


Figure 42.3: Edit Exam - Adding From Question Query, UPM LRC TOES

Existing exams are easily available to the admin using the exam search form (see Figure 43). The exams in the search results can further be managed with edit, delete, preview, print, schedule, and 'save as' processes. Only unused exams can be edited or deleted.

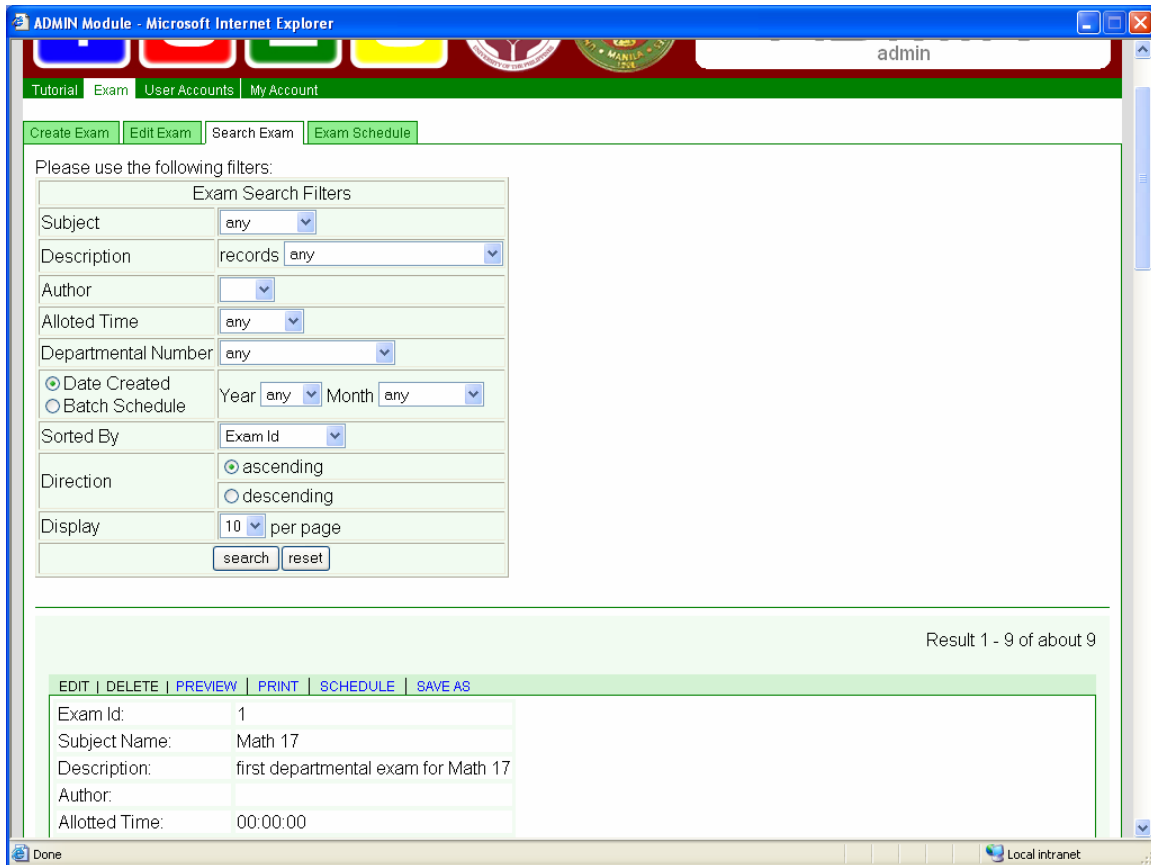


Figure 43: Exam Search, UPM LRC TOES

The exam preview gives a sneak peek of the actual exam (see Figure 44). The question body, explanation, and answer are displayed for each exam item. One can cycle through the exam items using back, next, and 'jump to' buttons. Hard copies of the exam can be prepared using the print function (see Figure 45). The 'save as' function creates a duplicate of the specified exam.

The screenshot shows the TOES EXAM PREVIEW interface. At the top, there are four colored boxes containing the letters 'T', 'O', 'E', and 'S', followed by the text 'EXAM PREVIEW'. Below this is a navigation bar with 'Back' and 'Next' buttons, a 'Jump To' dropdown menu set to 'question number 6', and an 'EXIT' button. The main content area displays 'Question Number: 6' and 'Question Type: MULTIPLE CHOICE'. A dropdown menu is open, showing options for 'TRUE OR FALSE', 'question number 1', 'question number 2', 'question number 3', 'MULTIPLE CHOICE', 'question number 4', 'question number 5', 'question number 6', 'MATCHING TYPE', and 'question number 7'. The question text asks for the 'least common denominator of $\frac{x}{x^2-1}$, $\frac{2}{x^2-3x+2}$ and $\frac{3x}{x-x^2}$?' with four multiple-choice options: A. $(x+1)(x-2)(x+1)$, B. $(x+1)(x-1)(x-2)$, C. $x(x-1)(x-2)(x+1)$, and D. $x(x-1)^2(x-2)(x+1)$. Below the question, a text box shows the partial solution: $\frac{x}{(x+1)(x-1)}, \frac{2}{(x-2)(x-1)}, -\frac{3x}{x(x-1)}$ and states 'therefore the LCM is $-x(x+1)(x-1)(x-2)$ '. At the bottom, a text box contains 'answer="B"'. A scrollbar is visible on the right side of the content area.

Figure 44: Exam Preview, UPM LRC TOES

Print Preview [Close]

Print... [Icons] Page 1 of 2 [Icons] 75% [Dropdown] Help Close

PART 1: TRUE OR FALSE

Question Number: 1
A set is FINITE if its elements can be listed or counted, or its cardinality can be determined.
 True
 False

Question Number: 2
For all real numbers a and b, if $a > b$ then $a^2 > b^2$
 True
 False

Question Number: 3
A symbol that can take only one value is called a constant.
 True
 False

PART 2: MULTIPLE CHOICE

Question Number: 4
The number $|3 - \pi|$ can also be written as:
 i. $3 - \pi$ iii. $-(3 - \pi)$
 ii. $\pi - 3$ iv. $-(\pi - 3)$
 A. i only
 B. ii only
 C. i and iv
 D. ii and iii

Question Number: 5
Which of the following statements is NOT true about the expression $5x^3y^2 - 3x^2y^2 + 6xy + 2x - 4y - 3$?
 A. it is of degree 5
 B. it is a polynomial
 C. the last term has degree zero
 D. the second term is of degree 2

Question Number: 6
Which of the following is the least common denominator of $\frac{x}{x^2 - 1}$, $\frac{2}{x^2 - 3x + 2}$ and $\frac{3x}{x - x^4}$?
 A. $-x(x - 1)^3(x - 2)(x + 1)$
 B. $-x(x - 1)(x - 2)(x + 1)$
 C. $x(x - 1)(x - 2)(x + 1)$
 D. $x(x - 1)^3(x - 2)(x + 1)$

PART 3: MATCHING TYPE

Question Number: 7

Figure 45: Print Exam, UPM LRC TOES

The TOES admin schedules exams by batches. An exam batch schedule (EBS) is determined by date, exam time, discussion time, term and school year, and slots (see Figure 46.1 and 46.2). The admin can also administer, edit, or delete existing EBS. Students can register in these mock exam schedules in their Exam Schedule page shown in Figure 47.

The screenshot shows the TOES ADMIN interface in Microsoft Internet Explorer. The header features the TOES logo and the text 'ADMIN admin'. Navigation tabs include 'Tutorial', 'Exam', 'User Accounts', and 'My Account'. The main content area has buttons for 'Create Exam', 'Edit Exam', 'Search Exam', and 'Exam Schedule'. A 'new exam schedule' button is present. Below is a 'LIST OF EXAM SCHEDULES' section. The first part is an 'Exam Details' table for Exam Id 5, showing Subject Name 'Math 17', Description, Author, Allotted Time '00:00:00', Date Created '2006-08-02 11:37:41', and Departmental Number 'first departmental'. The second part is a 'Batch Schedule' table with the following data:

batch id	date	date status	exam time	discussion time	available slots	term	sy
4	Friday August 4, 2006	behind schedule	8:30 AM-10:00 AM	10:00 AM-11:00 AM	6	first	2006-2007
15	Tuesday September 26, 2006	behind schedule	8:00 AM-10:00 AM	10:00 AM-11:00 AM	2	first	2006-2007

Below the batch schedule table is a 'manage batch schedule' button. At the bottom, there is another 'Exam Details' table for Exam Id 1, showing Subject Name 'Math 17' and Description 'first departmental exam for Math 17'.

Figure 46.1: Exam Schedule Management, UPM LRC TOES

ADMIN Module - Microsoft Internet Explorer

admin

Tutorial Exam User Accounts My Account

Create Exam Edit Exam Search Exam Exam Schedule

message: the new batch schedule was successfully recorded.

Exam Details	
Exam Id	10
Subject Name	Math 17
Description	first departmental exam for Math 17
Author	
Allotted Time	00:00:00
Date Created	2006-10-05 16:03:20
Departmental Number	first departmental

Batch Schedule								
	batch id	date	date status	exam time	discussion time	available slots	term	sy
administer edit cancel	16	Saturday October 7, 2006	ahead of schedule	9:00 AM-11:00 AM	11:00 AM-12:00 PM	20	first	2006-2007

New Batch Schedule

Date: 2006

Exam Time: from to

Discussion Time: from to

Term - School Year: 2006 - 2007



Available Slots:

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Figure 46.2: Exam Batch Schedule Management, UPM LRC TOES

STUDENT Module - Microsoft Internet Explorer

help | log out

TOES   **STUDENT**
2006-03394

My Tutorial My Exam My Account

Exam Schedule Take Exam Exam Results

show reminders

Registered Exam Batch Schedules (REBS)

	Priority Listing	Batch Id	Date	Exam Time	Discussion Time	Subject	Departmental	Term
unregister	PRIORITY	4	Friday August 4, 2006	8:30 AM-10:00 AM	10:00 AM-11:00 AM	Math 17	first departmental	first

all Exam Batch Schedules (EBS)

	Status	Batch Id	Date	Exam Time	Discussion Time	Subject	Departmental	Term	Sc
register	FULL	14	Friday August 18, 2006	8:30 AM-10:30 AM	10:30 AM-11:30 AM	Math 17	first departmental	first	20
register	OPEN	15	Tuesday September 26, 2006	8:00 AM-10:00 AM	10:00 AM-11:00 AM	Math 17	first departmental	first	20
register	OPEN	16	Saturday October 7, 2006	9:00 AM-11:00 AM	11:00 AM-12:00 PM	Math 17	first departmental	first	20

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Figure 47: Exam Schedule, UPM LRC TOES

Due to limited resources, the LRC held students responsible for monitoring their registration. Each EBS comes with a 'remaining slots' number. In real world this number reflects the quantity of available computers for that EBS. If this number becomes 0 the EBS's status will be marked as full otherwise open. When a student registers a full EBS his/her 'Priority Listing' will be marked as 'wait listed'. Priority students are the ones with reserved slots. The priority table shown in the popup window lists the registered students on a first-come-first-serve basis (see Figure 48). Wait listed students are encouraged to transfer to other EBS. The only chance they have to make it to the actual examination is when a significant number of students before them unregisters or comes late.

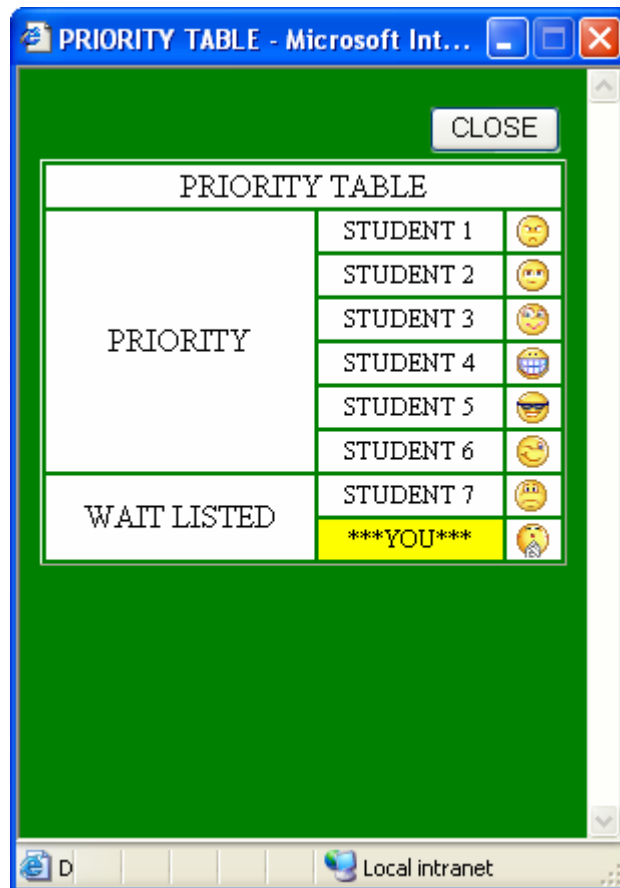




Figure 48: Priority Table, UPM LTC TOES

The initial Administer Exam page is shown in Figures 49.1. The page displays the exam details, EBS details, and the list of registrants. The LRC obliges examinees especially the priority ones to arrive ten minutes before their EBS. When a priority student comes late in a full EBS, he/she loses the slot to succeeding examinees that are present. On the other hand, late examinees may still take the ongoing exam provided that only half of the whole exam period has passed and that their 'remaining time' is decreased accordingly. Figure 49.2 shows the resulting page when the exam has started.

ADMIN Module - Microsoft Internet Explorer

help | log out |

TOES   **ADMIN**
admin

Tutorial Exam User Accounts My Account

Create Exam Edit Exam Search Exam Exam Schedule Administer Exam

reload this page

Exam Details

Exam Id	1
Subject Name	Math 17
Description	first departmental exam for Math 17
Author	
Allotted Time	00:00:00
Date Created	2006-07-28 23:45:35
Departmental Number	first departmental

Batch Schedule

batch id	date	date status	exam time	discussion time	available slots	term	sy
17	Tuesday October 10, 2006	ahead of schedule	1:00 PM-3:00 PM	3:00 PM-4:00 PM	4	first	2006-2007

REGISTRANTS

START remove

check all	Student Number	Student Name	Remaining Time hh:mm	Status	Offense	Registration
<input type="checkbox"/>	2006-00005	James Cecilio Tuano	00:00	waiting	none	Sunday October 8, 20
<input type="checkbox"/>	2006-00001	Christian Ronquillo	00:00	waiting	none	Sunday October 8, 20
<input type="checkbox"/>	2006-00003	Erwin Presnedi	00:00	waiting	none	Sunday October 8, 20
<input type="checkbox"/>	2006-03394	Mark Anthony Pelaez Manalang	00:00	waiting	none	Sunday October 8, 20

Register Student

Student Number -

register

back to main

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Figure 49.1: Administer Exam, UPM LRC TOES

ADMIN Module - Microsoft Internet Explorer

help | log out |

TOES   **ADMIN**
admin

Tutorial Exam User Accounts My Account

Create Exam Edit Exam Search Exam Exam Schedule Administer Exam

message: the time modifications were successfully applied.

reload this page

Exam Details

Exam Id	1
Subject Name	Math 17
Description	first departmental exam for Math 17
Author	
Allotted Time	00:00:00
Date Created	2006-07-28 23:45:35
Departmental Number	first departmental

Batch Schedule

	batch id	date	date status	exam time	discussion time	available slots	term	sy
<input type="button" value="CLOSE"/>	17	Tuesday October 10, 2006	ahead of schedule	1:00 PM-3:00 PM	3:00 PM-4:00 PM	4	first	2006-2007

LIST OF EXAMINEES

[] [5 mins] []

check all	Student Number	Student Name	Remaining Time hh:mm	Status	Offense	Registrar
<input type="checkbox"/>	2006-03394	Mark Anthony Pelaez Manalang	01:27	waiting	none	Sunday October 8, 20
<input type="checkbox"/>	2006-00003	Erwin Presnedi	01:27	waiting	none	Sunday October 8, 20
<input type="checkbox"/>	2006-00005	James Cecilio Tuano	01:27	waiting	none	Sunday October 8, 20
<input type="checkbox"/>	2006-00001	Christian Ronquillo	01:27	waiting	none	Sunday October 8, 20

LATE REGISTRANTS

check all	Student Number	Student Name	Remaining Time hh:mm	Status	Offense	Registration Date
<input type="checkbox"/>	2006-00002	Aristotle Delos Santos	01:30	waiting	none	Sunday October 8, 2006 at 10:

Register Late Student

Student Number -

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Figure 49.2: Administer Exam, UPM LRC TOES

The started exam will be available to 'listed examinees' in the Take Exam page of the 'Student Module Window' (SMW) (see Figure 50). The highlighted 'take exam' button launches the 'Toes Exam Window' (TEW) seen in Figure 51.

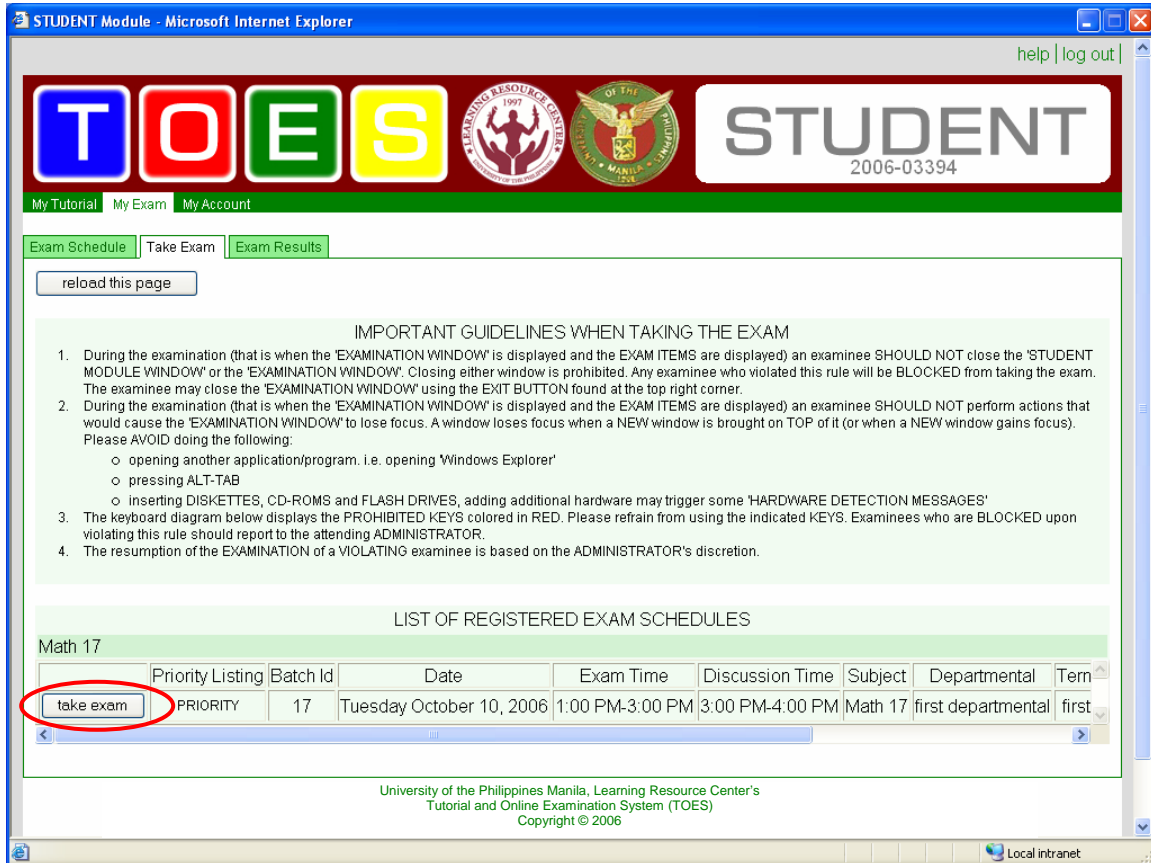


Figure 50: Take Exam, UPM LRC TOES

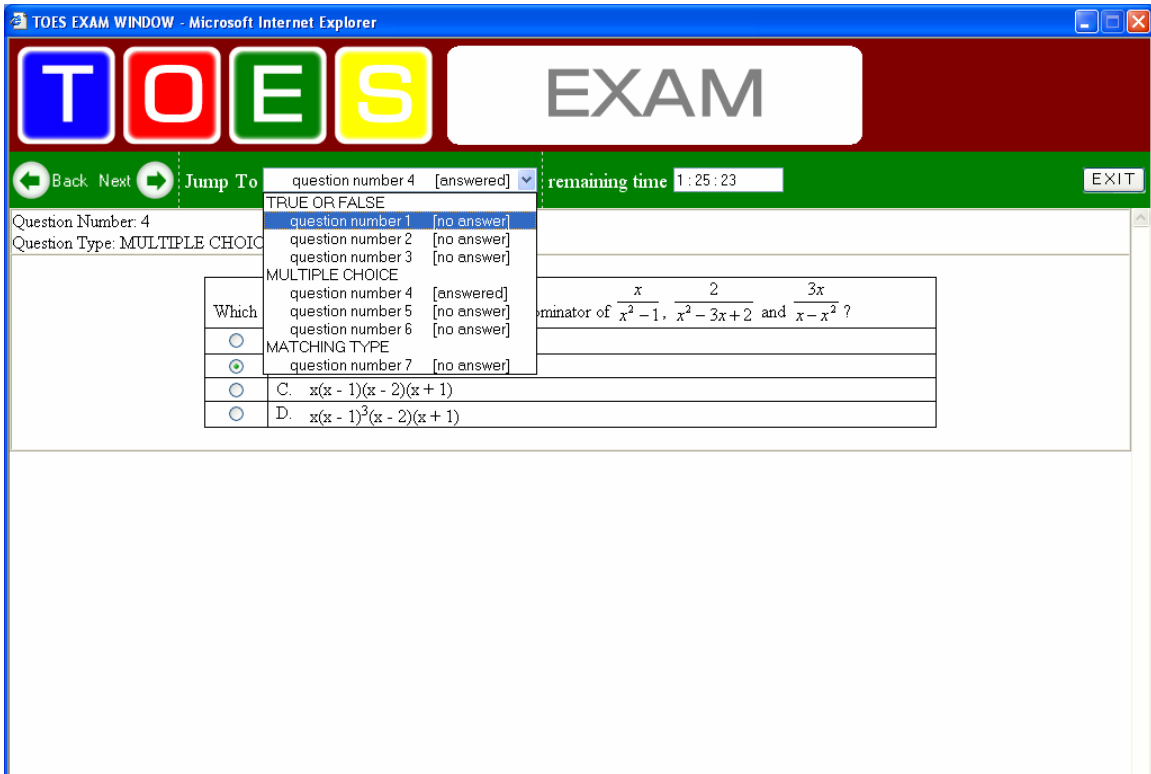





Figure 51: Toes Exam Window, UPM LRC TOES

Students who take these mock examinations will get an experience similar to taking the real exam because the exam items came from reliable sources. It is for this reason that the LRC has to protect this university property. During a TOES examination, students are expected to do just one thing, that is, to answer. To achieve this, TOES has included the following nifty features: 1) The TEW, being an always-on-top window, can not be minimized. 2) If the student closes TEW or SMW he/she will be blocked from taking the exam. 3) When the TEW loses focus the student will be blocked. TEW loses focus when another window is on top of it. 4) To deter cheating the TEW displays the exam items in random order. All blocked students will be reported to the admin through the 'Administer Exam' page (see Figure 49.2). The resumption of the examination of blocked examinees depends on the admin's discretion.

When the examinees finish answering the exam the admin will have to close the exam (see Figure 49.2). TOES automatically computes for the scores and performs exam analysis and exam item analysis. At this point the examinees may view their exam results in the 'Exam Results' page. On the other hand, the analysis data may be viewed by the TOES Director. These data are recorded and can be used in the Filter Generator (see Figure 41). Figure 52 shows an exam query results page for the director. 'Exam Analysis' (EA) and 'Exam Batch Analysis' (EBA) provide the same statistical reports, however, they differ in scope. The population for EBA covers only a single batch of examinees while the population for EA covers all batches for a particular exam.

DIRECTOR Module - Microsoft Internet Explorer

help | log out |

DIRECTOR
director

Exam Statistics | My Account

Search Exam

Please use the following filters:

Exam Search Filters

Subject: Math 17

Description: records any

Author: any

Alloted Time: any

Departmental Number: first departmental

Date Created
 Batch Schedule

Year: any Month: any

Sorted By: Exam Id

Direction: ascending
 descending

Display: 10 per page

search reset

Result 1 - 8 of about 8

[EXAM STATISTICS](#) | [PREVIEW](#)

Exam Id: 5
Subject Name: Math 17
Description:
Author:
Alloted Time: 00:00:00
Date Created: 2006-08-02 11:37:41
Departmental Number: first departmental

Batch Schedule						
	batch id	date	exam time	discussion time	term	sy
EXAM BATCH STATISTICS	4	2006-08-04	08:30-10:00	10:00-11:00	first	2006-2007
EXAM BATCH STATISTICS	7	2006-08-04	09:00-10:00	10:00-11:00	first	2006-2007
EXAM BATCH STATISTICS	5	2006-08-04	10:00-11:00	11:00-12:00	first	2006-2007
EXAM BATCH STATISTICS	6	2006-08-04	11:00-12:00	12:00-13:00	first	2006-2007
EXAM BATCH STATISTICS	15	2006-09-26	08:00-10:00	10:00-11:00	first	2006-2007

[EXAM STATISTICS](#) | [PREVIEW](#)

Exam Id: 3
Subject Name: Math 17
Description: first departmental exam for Math 17
Author:
Alloted Time: 00:00:00
Date Created: 2006-07-31 15:32:49
Departmental Number: first departmental

Batch Schedule						
	batch id	date	exam time	discussion time	term	sy
EXAM BATCH STATISTICS	2	2006-08-04	08:00-09:00	09:00-10:00	first	2006-2007

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Figure 52: Director Module - Search Exam, UPM LRC TOES

An analysis page contains the Exam Details, Exam Statistics/Exam Batch Statistics, Examinees, and Exam Item Statistics. Figure 53 exhibits 'Exam Details' table for an 'Exam Analysis'. Figure 54 displays the different statistical measurements used in 'Exam Statistics.' Figure 55 exhibits the Examinees page containing examinee scores grouped by batch. Figure 56 demonstrates TOES ability to compute for 'Exam Item Statistics.' It is worth mentioning that the director may change some variables, thus, influencing the results of the computation. These adjustments include removing examinees or removing an entire batch (see Figure 55), and taking away exam items (see Figure 56). Recomputations can be done using the 'compute statistics' button (see Figure 53), however the controlled results are not recorded. Another noteworthy feature is that TOES gives interpretations on most of the computed statistical values.

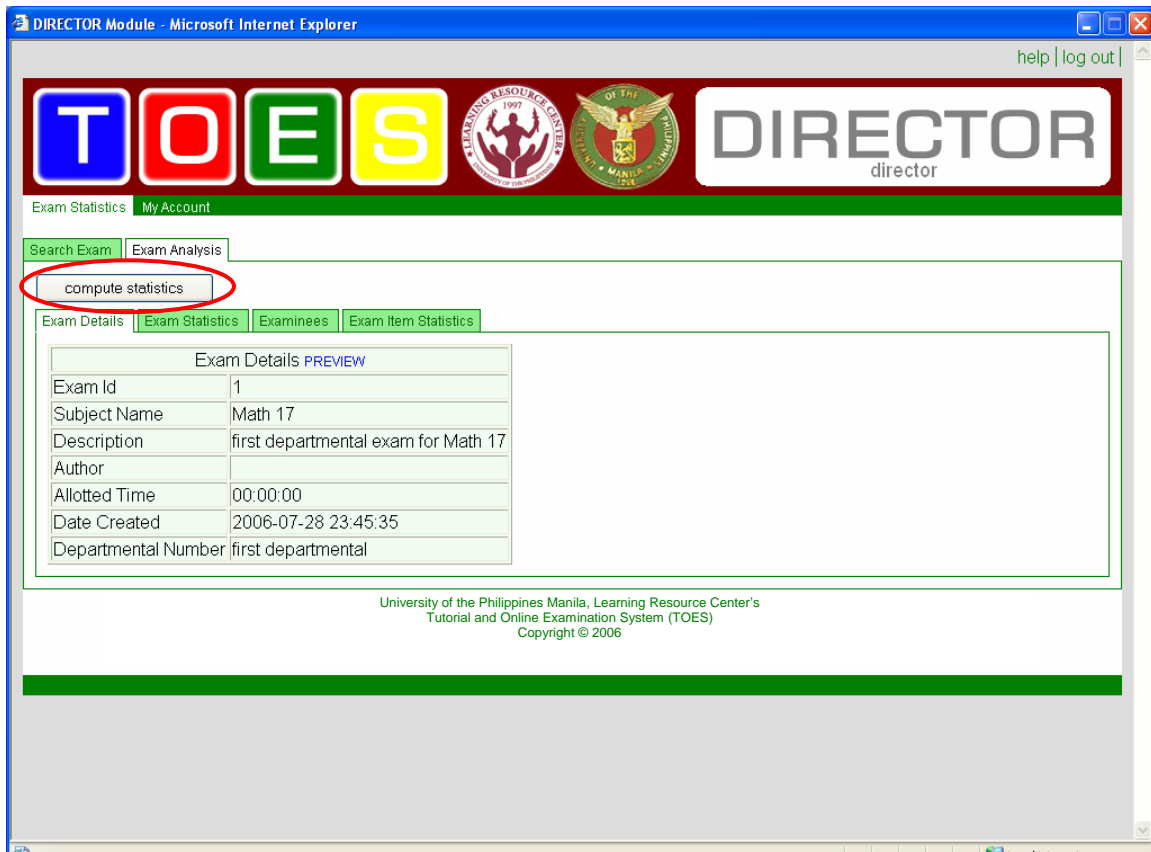


Figure 53: Analysis - Exam Details, UPM LRC TOES

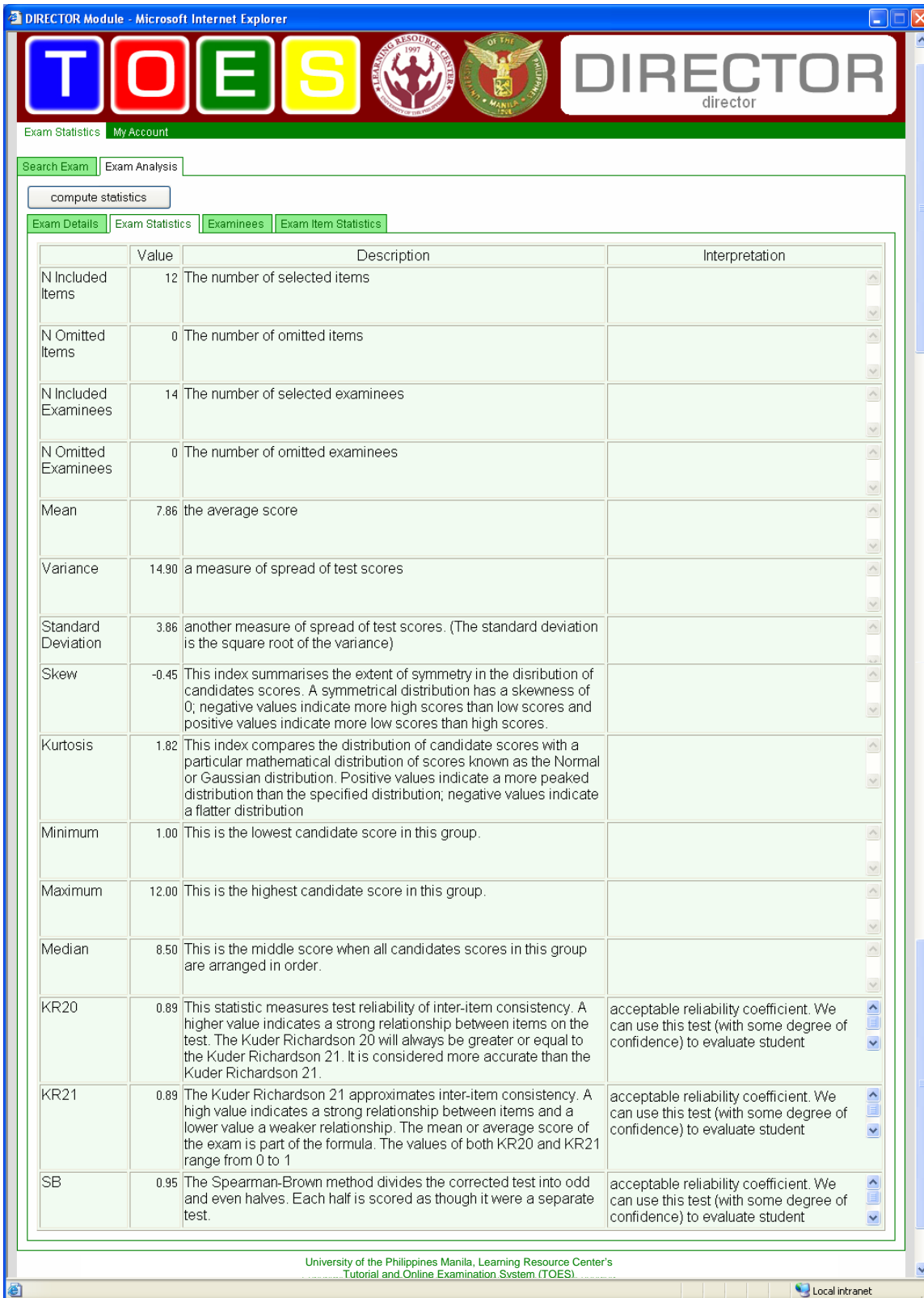




Figure 54: Analysis - Exam Statistics, UPM LRC TOES

DIRECTOR Module - Microsoft Internet Explorer

help | log out |

TOES   **DIRECTOR**
director

Exam Statistics My Account

Search Exam Exam Analysis

compute statistics

Exam Details Exam Statistics Examinees Exam Item Statistics

Exam Batch Schedule Details

batch id	date	exam time	discussion time
1	2006-07-31	08:00-09:00	09:00-10:00

[MANAGE](#)

Student List

check all	student number	score	Z score	T score	weighted score
<input checked="" type="checkbox"/>	2001-00001	8	0.04	50.37	8
<input checked="" type="checkbox"/>	2001-00002	9	0.3	52.96	9
<input checked="" type="checkbox"/>	2001-00003	11	0.81	58.14	11
<input checked="" type="checkbox"/>	2001-00004	9	0.3	52.96	9
<input checked="" type="checkbox"/>	2001-00005	12	1.07	60.73	12
<input checked="" type="checkbox"/>	2001-00006	7	-0.22	47.78	7
<input checked="" type="checkbox"/>	2001-00007	12	1.07	60.73	12
<input checked="" type="checkbox"/>	2001-00008	12	1.07	60.73	12
<input checked="" type="checkbox"/>	2001-00009	12	1.07	60.73	12
<input checked="" type="checkbox"/>	2001-03394	6	-0.48	45.19	6

hide student list

Exam Batch Schedule Details

batch id	date	exam time	discussion time
3	2006-08-02	07:00-08:30	08:30-09:00

show student list

Exam Batch Schedule Details

batch id	date	exam time	discussion time
8	2006-08-16	08:30-10:30	10:30-11:00

show student list

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Figure 55: Analysis - Examinees, UPM LRC TOES

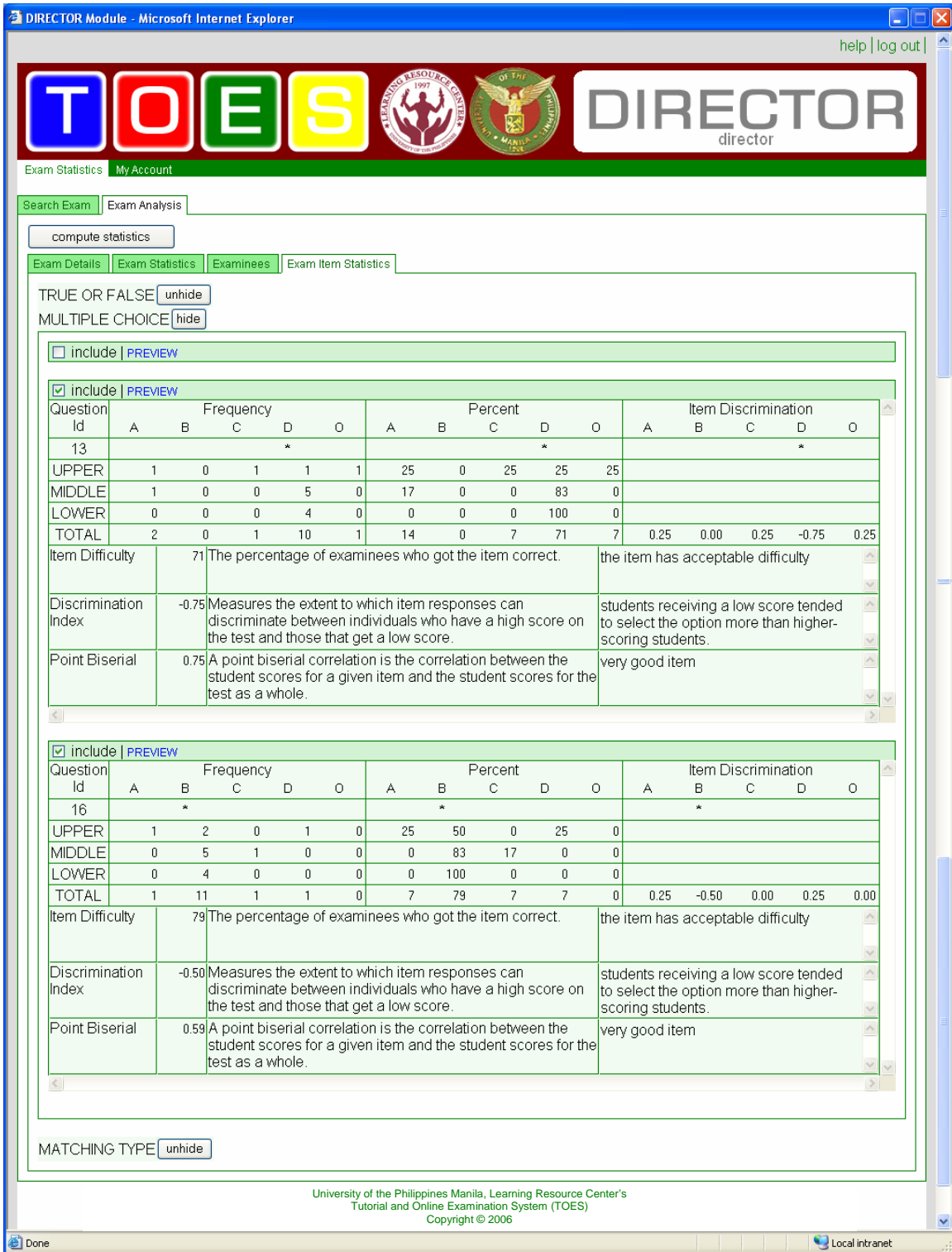


Figure 56: Analysis – Exam Item Statistics, UPM LRC TOES

To deal with the inevitable, TOES included an 'Examinee Manager' which can be accessed using the manage button in Figure 55. The manager shown in Figure 57 allows the director to transfer answer strings from an examinee's answer sheet in the pen and paper method.

Exam Statistics My Account

Search Exam Examinee Manager

EXAMINEES ANSWER SHEETS

	QUESTION ID	QUESTION ID												
		1	8	11	10	13	16	19.1	19.2	19.3	19.4	19.5	19.6	
	answer key	T	F	T	d	d	b	2	8	5	6	1	4	
EDIT DELETE	2001-03394	T	F	T	c	d	b	1	3	6	6	7	8	
EDIT DELETE	2001-00001	T	F	F	c	d	b	8	2	5	6	1	4	
EDIT DELETE	2001-00002	F	F	T	c	d	b	2	8	5	6	1	6	
EDIT DELETE	2001-00003	T	F	T	d	d	b	3	8	5	6	1	4	
EDIT DELETE	2001-00004	T	T	F	b	d	b	2	8	5	6	1	4	
EDIT DELETE	2001-00005	T	F	T	d	d	b	2	8	5	6	1	4	
EDIT DELETE	2001-00006	F	T	T	b	a	c	2	8	5	6	1	4	
EDIT DELETE	2001-00007	T	F	T	d	d	b	2	8	5	6	1	4	
EDIT DELETE	2001-00008	T	F	T	d	d	b	2	8	5	6	1	4	
EDIT DELETE	2001-00009	T	F	T	d	d	b	2	8	5	6	1	4	

ADD ANSWER SHEET

Student Number -

QUESTION ID	CHOICES
1	<input type="radio"/> true <input type="radio"/> false <input checked="" type="radio"/> BLANK
8	<input type="radio"/> true <input type="radio"/> false <input checked="" type="radio"/> BLANK
11	<input type="radio"/> true <input type="radio"/> false <input checked="" type="radio"/> BLANK
10	<input type="radio"/> a <input type="radio"/> b <input type="radio"/> c <input type="radio"/> d <input checked="" type="radio"/> BLANK
13	<input type="radio"/> a <input type="radio"/> b <input type="radio"/> c <input type="radio"/> d <input checked="" type="radio"/> BLANK
16	<input type="radio"/> a <input type="radio"/> b <input type="radio"/> c <input type="radio"/> d <input checked="" type="radio"/> BLANK
19	19.1 <input type="text" value="BLANK"/>
	19.2 <input type="text" value="BLANK"/>
	19.3 <input type="text" value="BLANK"/>
	19.4 <input type="text" value="BLANK"/>
	19.5 <input type="text" value="BLANK"/>
	19.6 <input type="text" value="BLANK"/>

add

proceed to Exam Analysis

proceed to Exam Batch Analysis

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Figure 57: Examinee Manager, UPM LRC TOES

Aside from being an Examination System, TOES is also a Tutorial Scheduling System. Students request a Tutorial Schedule by specifying the following: subject, topic, tutor, preferred day, and the preferred time (see Figure 58). The 'Peer Schedule' table and the 'Faculty Schedule' table in Figures 59 and 60 aid students in making their requests.

The screenshot shows a web browser window titled "STUDENT Module - Microsoft Internet Explorer". The page header features the TOES logo (T in blue, O in red, E in green, S in yellow) and the University of the Philippines Learning Resource Center logo. The user is logged in as "STUDENT" with ID "2001-03394". Navigation tabs include "My Tutorial", "My Exam", and "My Account". The main menu has "Tutorial Schedule" selected, with other options being "Tutorial Request", "Tutorial Attendance", "Peer Schedule", and "Faculty Schedule".

The "New Tutorial Request" form contains the following fields:

- Subject:** A dropdown menu showing "Meth 17".
- Topic:** A list of topics with checkboxes:
 - first departmental:
 - Algebraic Expressions
 - Sets and Real Numbers
 - second departmental:
 - Complex Numbers and Operations
 - Linear and Quadratic Equations
 - third departmental:
 - Exponential and Logarithmic Functions
 - Functions and Relations
 - Geometric Progression
 - Inequalities
 - Variations
 - fourth departmental:
 - Circular Functions
- Tutor:** A dropdown menu showing "Honeylette de Luna (peer)".
- Preferred Day:** A dropdown menu showing "Wednesday" and a date field showing "October 18, 2006".
- Preferred Time:** Two dropdown menus showing "8:30 AM" and "9:30 AM".
- submit:** A button at the bottom of the form.

Figure 58: Tutorial Request, UPM LRC TOES

STUDENT Module - Microsoft Internet Explorer

help | log out |

TOES   **STUDENT**
2001-03394

My Tutorial | My Exam | My Account

Tutorial Schedule | Tutorial Request | Tutorial Attendance | Peer Schedule | Faculty Schedule

Subject	Tutor	MON	TUE	WED	THU	FRI
Chem 14	none available					
Chem 156	none available					
Chem 18	none available					
Chem 27	none available					
Chem 31	none available					
Chem 40	none available					
Math 11	Anna Lisa Solis	8:00 AM-10:00 AM	8:00 AM-11:30 AM	8:00 AM-12:00 PM	8:00 AM-12:00 PM 1:00 PM-4:30 PM	8:00 AM-11:30 AM
	Honeylette de Luna		8:00 AM-10:00 AM	8:00 AM-12:00 PM	8:00 AM-12:00 PM 1:00 PM-4:00 PM	8:00 AM-10:00 AM
	Mary Rose Maballo	8:00 AM-12:00 PM 1:00 PM-2:30 PM	1:00 PM-5:00 PM		8:00 AM-12:00 PM 1:00 PM-2:30 PM	1:00 PM-5:00 PM
	Rico Mayro Tanyag		2:30 PM-5:00 PM	4:00 PM-5:00 PM	10:30 AM-12:00 PM 2:30 PM-4:00 PM	2:30 PM-5:00 PM
Math 14	Anna Lisa Solis	8:00 AM-10:00 AM	8:00 AM-11:30 AM	8:00 AM-12:00 PM	8:00 AM-12:00 PM 1:00 PM-4:30 PM	8:00 AM-11:30 AM
	Honeylette de Luna		8:00 AM-10:00 AM	8:00 AM-12:00 PM	8:00 AM-12:00 PM 1:00 PM-4:00 PM	8:00 AM-10:00 AM
	Mary Rose Maballo	8:00 AM-12:00 PM 1:00 PM-2:30 PM	1:00 PM-5:00 PM		8:00 AM-12:00 PM 1:00 PM-2:30 PM	1:00 PM-5:00 PM
	Rico Mayro Tanyag		2:30 PM-5:00 PM	4:00 PM-5:00 PM	10:30 AM-12:00 PM 2:30 PM-4:00 PM	2:30 PM-5:00 PM
Math 17	Anna Lisa Solis	8:00 AM-10:00 AM	8:00 AM-11:30 AM	8:00 AM-12:00 PM	8:00 AM-12:00 PM 1:00 PM-4:30 PM	8:00 AM-11:30 AM
	Honeylette de Luna		8:00 AM-10:00 AM	8:00 AM-12:00 PM	8:00 AM-12:00 PM 1:00 PM-4:00 PM	8:00 AM-10:00 AM
	Mary Rose Maballo	8:00 AM-12:00 PM 1:00 PM-2:30 PM	1:00 PM-5:00 PM		8:00 AM-12:00 PM 1:00 PM-2:30 PM	1:00 PM-5:00 PM
	Rico Mayro Tanyag		2:30 PM-5:00 PM	4:00 PM-5:00 PM	10:30 AM-12:00 PM 2:30 PM-4:00 PM	2:30 PM-5:00 PM
	Ryan Oliver Bautista	8:00 AM-10:30 AM	8:30 AM-10:00 AM	10:30 AM-12:00 PM		8:00 AM-10:30 AM
sample	none available	4:00 PM-5:00 PM		4:00 PM-5:00 PM		1:00 PM-5:00 PM



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Figure 59: Peer Schedule: UPM LRC TOES

STUDENT Module - Microsoft Internet Explorer

help | log out

TOES   **STUDENT**
2001-03394

My Tutorial | My Exam | My Account

Tutorial Schedule | Tutorial Request | Tutorial Attendance | Peer Schedule | Faculty Schedule

Subject	Tutor	MON	TUE	WED	THU	FRI
Chem 14	none available					
Chem 156	none available					
Chem 18	none available					
Chem 27	none available					
Chem 31	none available					
Chem 40	none available					
Math 11	Roderico De Armas	1:00 PM-4:00 PM	11:00 AM-12:00 PM 1:00 PM-2:00 PM	8:00 AM-9:00 AM 11:00 AM-1:00 PM		11:00 AM-12:00 PM 1:00 PM-2:00 PM
Math 14	Derick Eri Sumalapao		1:00 PM-2:30 PM	8:00 AM-10:00 AM 2:00 PM-4:00 PM		1:00 PM-2:30 PM
Math 17	none available					
sample	none available					

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Figure 60: Faculty Schedule, UPM LRC TOES

Figure 61 shows the student's 'Tutorial Request' page. A student may view his/her own request in the 'My Tutorial Requests' table. A student may also join an existing request from the 'Tutorial Request From Other Students' table. Requests should be submitted two working days before the tutorial schedule date.



Figure 61: Student Tutorial Request, UPM LRC TOES

The two day advance allows the LRC office confirm the availability of the requested tutor. Figure 62 lists all the tutorial requests. In case the requested tutor is not available the admin consults the other available tutors (see Figure 63).

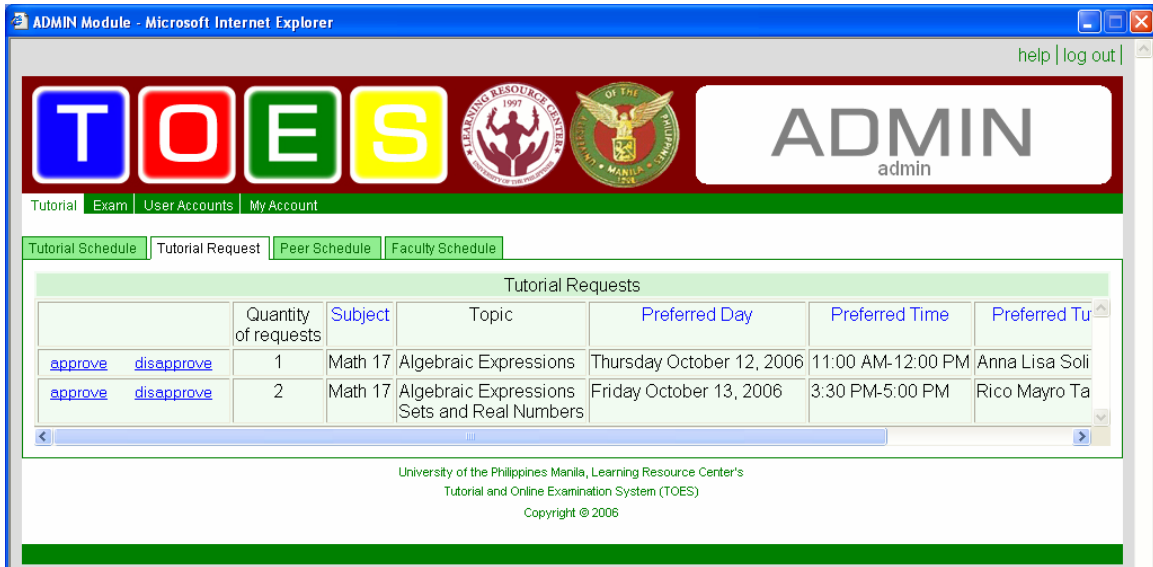


Figure 62: Admin – Tutorial Requests, UPM LRC TOES

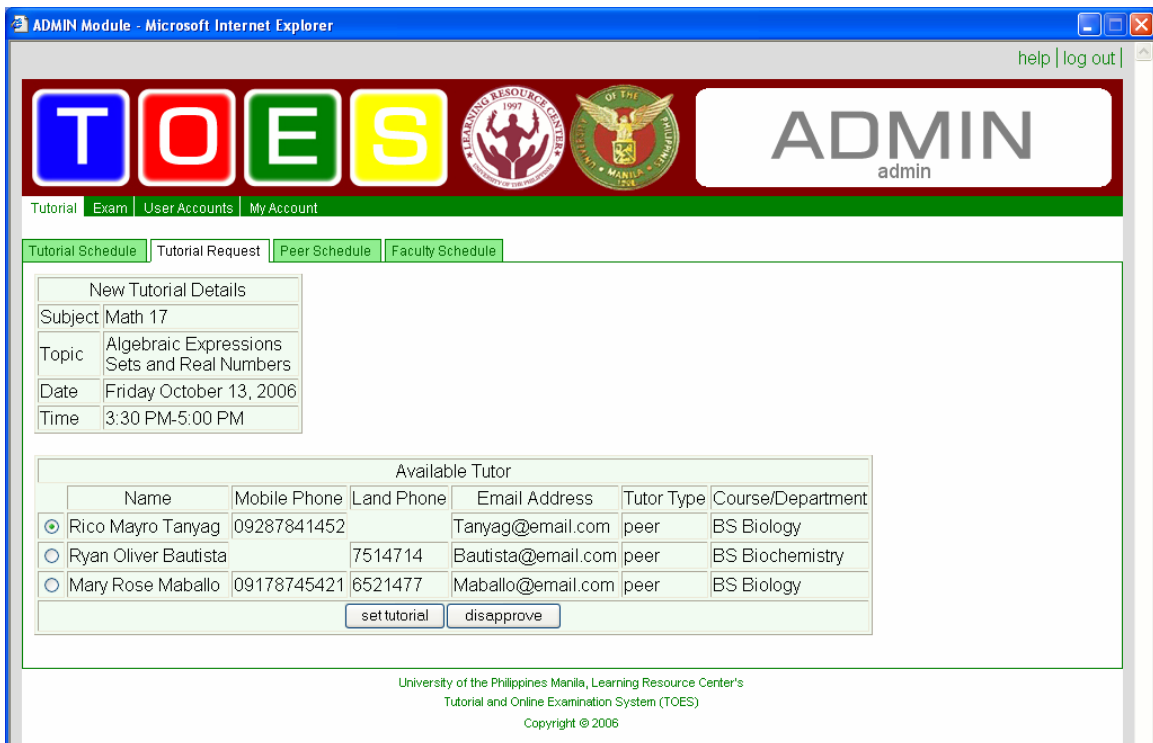




Figure 63: Admin – Approve Tutorial Request, UPM LRC TOES

An approved 'Tutorial Request' results into a new 'Tutorial Schedule' and the students who submitted the request are automatically enlisted in the new schedule. Students enlist in these schedules in the 'Tutorial Schedule' page in Figure 64 while the admin manages them in Figure 65. Like the exam registration tutorial, slots are given on a first-come-first-serve basis. The LRC audio visual rooms ideally accommodate thirty tutees. This number marks the 'maximum priority slots'. The priority table in Figure 48 is also available for viewing the 'priority listing' in a tutorial schedule. A 'tutorial slot' reserves a seat for the student, however, it does not mean that a 'wait listed' tutee can not attend the tutorial. Students who submitted a disapproved request will be notified in Figure 66.

STUDENT Module - Microsoft Internet Explorer

help | log out |

TOES   **STUDENT**
2001-03394

My Tutorial | My Exam | My Account

Tutorial Schedule | Tutorial Request | Tutorial Attendance | Peer Schedule | Faculty Schedule

message: you are now enlisted in the tutorial that you specified earlier.

show reminders

My Enlisted Tutorials

	Priority Listing	Subject	Topic	Time	Date	Tutor	Course
cancel	PRIORITY	Math 17	Algebraic Expressions Sets and Real Numbers	8:30 AM-9:30 AM	Tuesday October 17, 2006	Honeylette de Luna	(peer) BS C

Available Tutorial Schedules

	Status	Subject	Topic	Time	Date	Tutor	Course/Department
enlist	FULL	Math 17	Algebraic Expressions Sets and Real Numbers	3:30 PM-5:00 PM	Friday October 13, 2006	Rico Mayro Tanyag	(peer) BS Biology

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Figure 64: Student – Tutorial Schedule, UPM LRC TOES

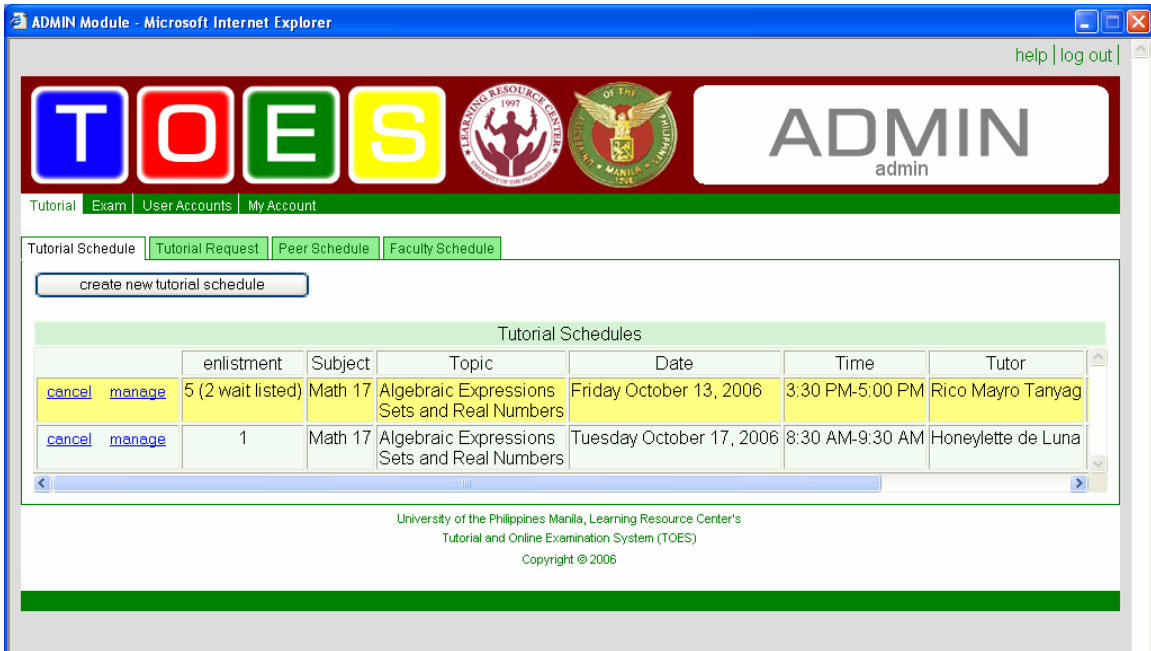


Figure 65: Admin – Tutorial Schedule, UPM LRC TOES

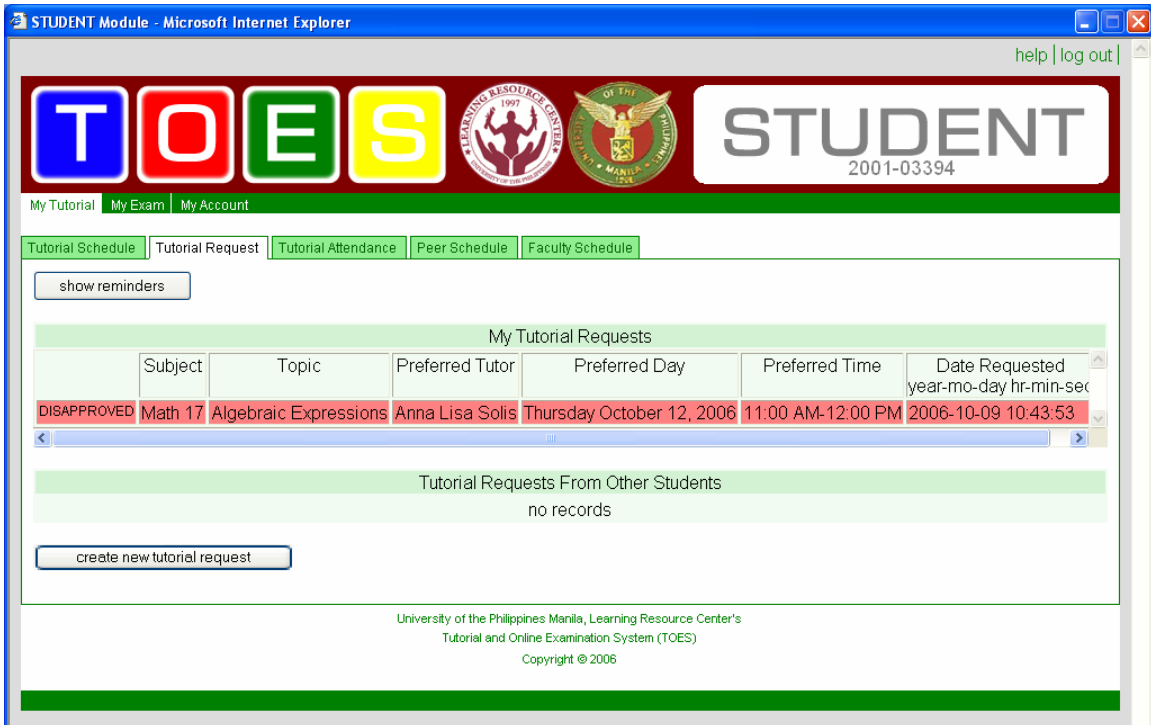




Figure 66: Student – Tutorial Request (disapproval), UPM LRC TOES

The 'Tutorial Schedule Enlistment' page in Figure 67 allows the admin to enlist or remove tutees from a tutorial schedule and to create a new schedule for 'Waiting Enlistees'. The value of the 'maximum priority slots' was intentionally set to three in Figure 67. Figure 68 demonstrates the ability to create a new schedule with a different tutor for accommodating the 'wait listed.' This feature allows the LRC office to distribute the tutees among the available tutors. This results to smaller class sizes which increase interaction between the students and the tutor. In worst case scenarios, where the LRC can not create a backup tutorial schedule, the 'wait listed' may still attend, but without guaranteed seats.

ADMIN Module - Microsoft Internet Explorer

help | log out |

TOES   **ADMIN**
admin

Tutorial Exam User Accounts My Account

Tutorial Schedule Tutorial Schedule Enlistment Tutorial Request Peer Schedule Faculty Schedule

Tutorial Schedule Details

Subject	Math 17
Topic	Algebraic Expressions Sets and Real Numbers
Date	Friday October 13, 2006
Time	3:30 PM-5:00 PM
Peer Tutor	Rico Mayro Tanyag change
Peer Course	BS Biology

Enlist Student

Student Number -

Priority Enlistees

	Priority Number	Student Number	Name	Mobile Phone	Land Phone	Email	Course
remove	1	2006-00001	Christian Ronquillo	09197894521	1324567	ronquillo@email.com	BS Computer
remove	2	2006-00002	Aristotle Delos Santos	09991324578	12345658	delossantos@email.com	BS Computer
remove	3	2006-00005	James Cecilio Tuano	09123251478	9876545	tuano@email.com	BS Computer

Waiting Enlistees

	Priority Number	Student Number	Name	Mobile Phone	Land Phone	Email	Course
remove	4	2006-03394	Mark Anthony Pelaez Manalang	09197894512	7507039	m33kmark@yahoo.com	BS Computer
remove	5	2006-00004	Marcus Alianza	09201245789	1479635	alianza@email.com	BS Computer



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Figure 67: Admin – Tutorial Schedule Enlistment, UPM LRC TOES

ADMIN Module - Microsoft Internet Explorer

help | log out

TOES   **ADMIN**
admin

Tutorial Exam User Accounts My Account

Tutorial Schedule Tutorial Schedule Enlistment Tutorial Request Peer Schedule Faculty Schedule

Tutorial Schedule Details

Subject	Math 17
Topic	Algebraic Expressions Sets and Real Numbers
Date	Friday October 13, 2006
Time	3:30 PM-5:00 PM
Tutor	please select from the 'Available Tutor' table

Waiting Enlistees To Accomodate

	Priority Number	Student Number	Name	Mobile Phone	Land Phone	Email	
remove	4	2006-03394	Mark Anthony Pelaez Manalang	09197894512	7507039	m33kmark@yahoo.com	BS C
remove	5	2006-00004	Marcus Alianza	09201245789	1479635	alianza@email.com	BS C

Available Tutor

	Name	Mobile Phone	Land Phone	Email Address	Tutor Type	Course/Department
<input type="radio"/>	Ryan Oliver Bautista		7514714	Bautista@email.com	peer	BS Biochemistry
<input type="radio"/>	Mary Rose Maballo	09178745421	6521477	Maballo@email.com	peer	BS Biology

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Figure 68: Admin – Tutorial Schedule Enlistment, UPM LRC TOES



The staff records all 'Tutorial Attendance' for each 'Tutorial Schedule' (see Figure 69). Figures 70.1 to 70.3 show the 'Tutorial Attendance' management page. Right before the tutorial starts, the staff records the present enlisted students (see Figure 70.1). The form in Figure 70.2 appears after checking the attendance of the enlisted students. This form can be used to add walk-in students.

attendance	Attendees	Subject	Date	Time	Tutor	Course/Department
attendance	0	Math 17	Tuesday October 17, 2006	8:30 AM-9:30 AM	Honeylette de Luna	peer: BS Computer Science
attendance	0	Math 17	Friday October 13, 2006	3:30 PM-5:00 PM	Rico Mayro Tanyag	peer: BS Biology
attendance	1	Math 17	Tuesday August 15, 2006	2:30 PM-3:00 PM	Mary Rose Maballos	peer: BS Biology
attendance	0	Math 17	Tuesday August 15, 2006	8:00 AM-8:30 AM	Anna Lisa Solis	peer: BS Computer Science
attendance	0	Math 17	Monday August 14, 2006	8:00 AM-8:30 AM	Rico Mayro Tanyag	peer: BS Biology
attendance	0	Math 17	Monday August 14, 2006	8:00 AM-8:30 AM	Ryan Oliver Bautista	peer: BS Biochemistry
attendance	4	Math 17	Tuesday August 8, 2006	1:00 PM-2:00 PM	Mary Rose Maballos	peer: BS Biology
attendance	3	Math 17	Monday July 31, 2006	8:00 AM-10:30 AM	Mary Rose Maballos	peer: BS Biology
attendance	4	Math 17	Monday July 31, 2006	8:00 AM-8:30 AM	Anna Lisa Solis	peer: BS Computer Science
attendance	2	Math 17	Tuesday July 18, 2006	8:00 AM-8:30 AM	Anna Lisa Solis	peer: BS Computer Science

Figure 69: Staff – Tutorial Schedule, UPM LRC TOES

STAFF Module - Microsoft Internet Explorer

help | log out |

TOES   **STAFF**
staff

Tutorial | Subject | Topic | Question | My Account

Tutorial Schedule | Tutorial Attendance

Tutorial Details	
Subject	Math 17
Date	Friday October 13, 2006
Time	3:30 PM-5:00 PM
Tutor	Rico Mayro Tanyag
Course	(peer) BS Biology
Topic	Algebraic Expressions Sets and Real Numbers

ATTENDEES
no records

ABSENTEES
no records

message: please add the ENLISTED STUDENT who ATTENDED the tutorial using the form below.

ENLISTED STUDENTS				
	Student Number	Name	Priority Number	Priority Listing
<input type="checkbox"/>	2006-00001	Christian Ronquillo	1	PRIORITY
<input type="checkbox"/>	2006-00002	Aristotle Delos Santos	2	PRIORITY
<input type="checkbox"/>	2006-00005	James Cecilio Tuano	3	PRIORITY
<input type="checkbox"/>	2006-03394	Mark Anthony Pelaez Manalang	4	WAIT LISTED
<input type="checkbox"/>	2006-00004	Marcus Alianza	5	WAIT LISTED

add to attendees



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Figure 70.1: Staff – Tutorial Attendance, UPM LRC TOES

STAFF Module - Microsoft Internet Explorer

help | log out |

TOES   **STAFF**
staff

Tutorial | Subject | Topic | Question | My Account

Tutorial Schedule | Tutorial Attendance

Tutorial Details	
Subject	Math 17
Date	Friday October 13, 2006
Time	3:30 PM-5:00 PM
Tutor	Rico Mayro Tanyag
Course	(peer) BS Biology
Topic	Algebraic Expressions Sets and Real Numbers

ATTENDEES				
	Student Number	Name	Course	Enlistment Method
mark as absent	2006-00001	Christian Ronquillo	BS Computer Science	online
mark as absent	2006-00004	Marcus Alianza	BS Computer Science	online
mark as absent	2006-00005	James Cecilio Tuano	BS Computer Science	online
remove	2006-00003	Erwin Presnedi	BS Computer Science	walk in

ABSENTEES				
	Student Number	Name	Course	Enlistment Method
mark as present	2006-00002	Aristotle Delos Santos	BS Computer Science	online
mark as present	2006-03394	Mark Anthony Pelaez Manalang	BS Computer Science	online

WALK IN STUDENTS	
submission	<input type="radio"/> single <input checked="" type="radio"/> multiple
Student Number	<input type="text"/> - <input type="text"/>
Student Number	<input type="text"/> - <input type="text"/>
Student Number	<input type="text"/> - <input type="text"/>
Student Number	<input type="text"/> - <input type="text"/>
Student Number	<input type="text"/> - <input type="text"/>
add to attendees	

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Figure 70.2: Staff – Tutorial Attendance, UPM LRC TOES

The "Previous Tutorial Schedules" table in Figure 71 lists all previously handled tutorials by a tutor. The same page also displays the tutor's "Current Tutorial Schedules." The tutor manages his/her tutorial subjects using the form in Figure 72. The form shown in Figure 73 allows the tutor to manage his/her available free time.

The screenshot shows the TUTOR Module web interface. At the top, there are logos for TOES and the University of the Philippines Manila Learning Resource Center, along with the name Vanessa Gamer. Below the logos are navigation tabs: My Schedule, My Account, My Tutorials, My Subjects, and My Freetime. The My Tutorials tab is selected, showing two tables: Current Tutorial Schedules and Previous Tutorial Schedules.

Current Tutorial Schedules						
Subject	Topic	Date	Time	Tutor	Course/Department	
Math 17	Functions and Relations Geometric Progression	Tuesday August 15, 2006	8:00 AM-8:30 AM	Vanessa Revagorda Garner	peer:	Doctor of Medicine

Previous Tutorial Schedules						
attendees	Subject	Topic	Date	Time	Tutor	Course/Department
3	Math 17	Algebraic Expressions Sets and Real Numbers	Tuesday July 18, 2006	8:00 AM-8:30 AM	Vanessa Revagorda Garner	peer: Doctor of Medicine
4	Math 17	Circular Functions	Monday July 31, 2006	8:00 AM-8:30 AM	Vanessa Revagorda Garner	peer: Doctor of Medicine

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Figure 71: Tutor's Tutorials, UPM LRC TOES

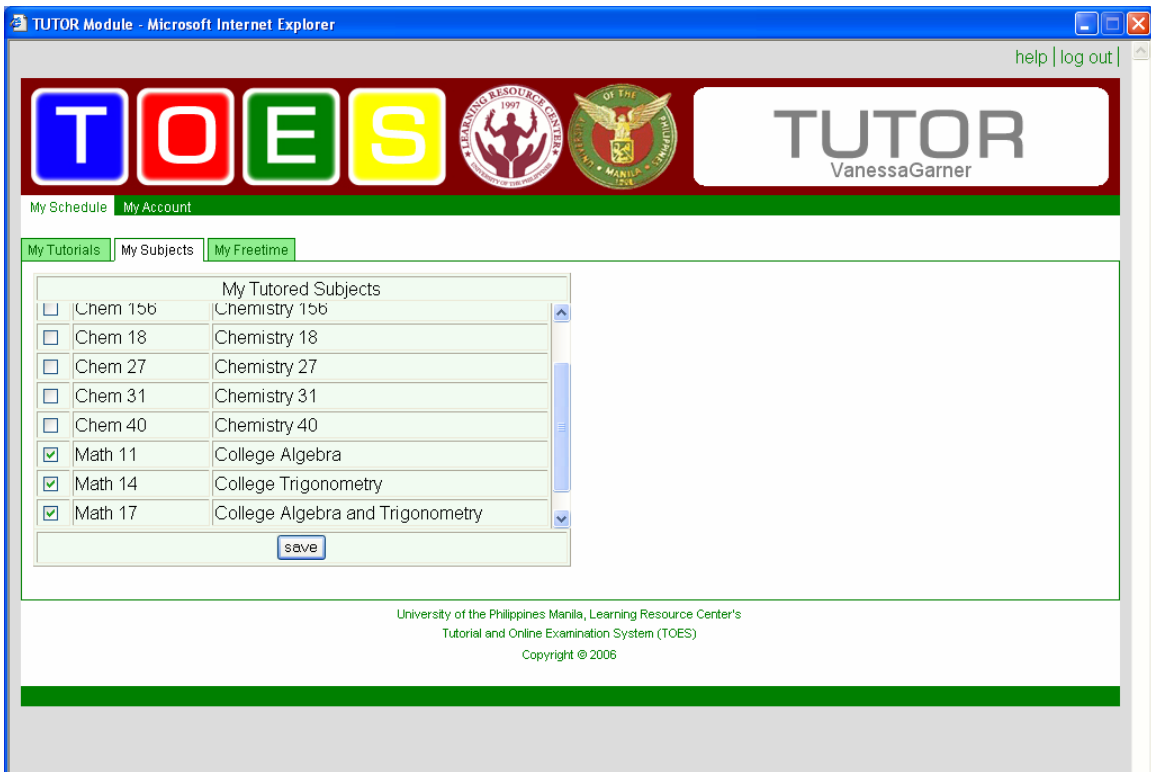


Figure 72: Tutor's Subjects, UPM LRC TOES

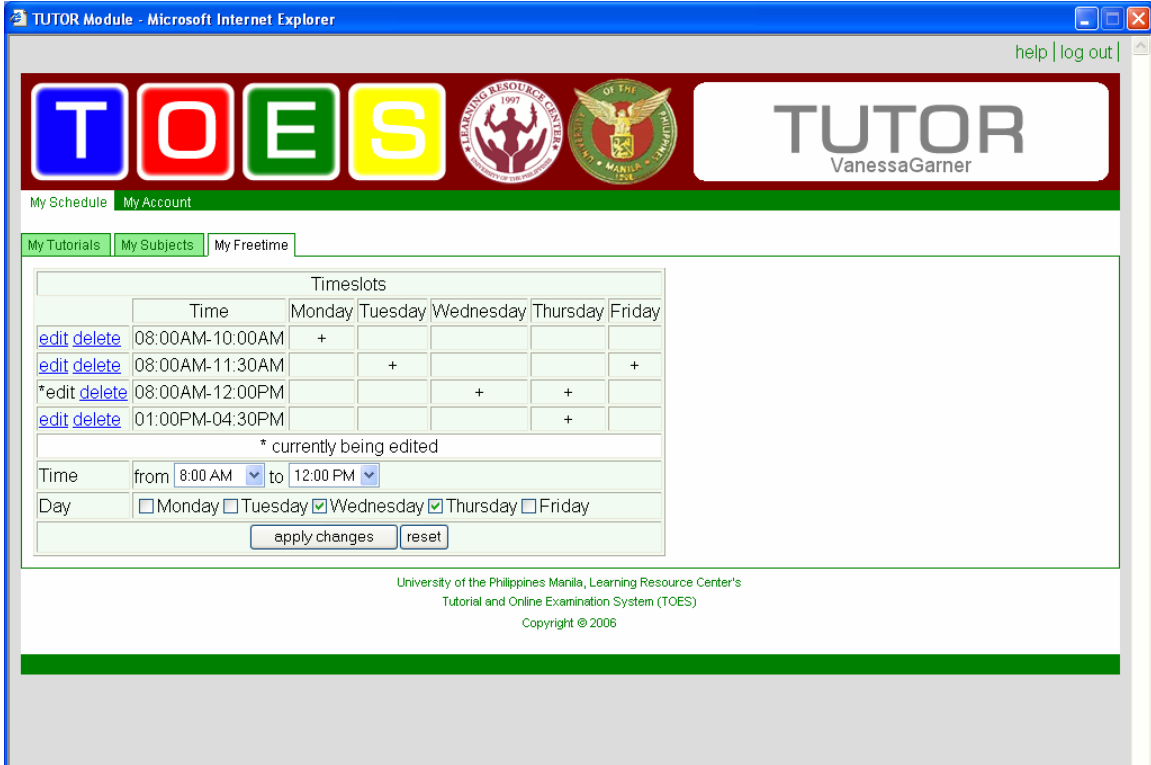


Figure 73: Tutor's Free Time, UPM LRC TOES

The 'User Account Management' page allows users to update their contact information and account information (see Figure 74).

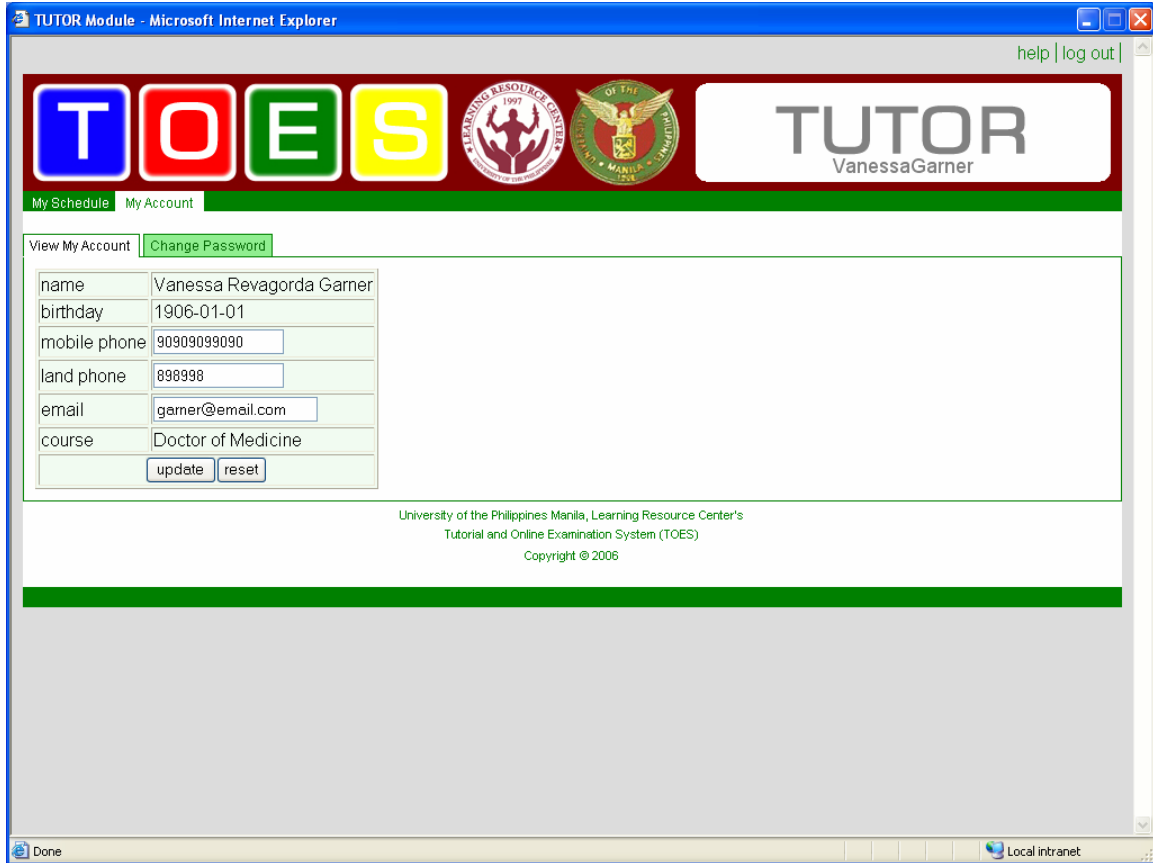


Figure 74: User Account Management, UPM LRC TOES

VI. DISCUSSION

The UP Manila Learning Resource Center's Tutorial and Online Examination System (TOES) is a web-based 'Examination System' and a 'Tutorial Scheduling System.' The 'Examination System' allows the LRC to create questions for the exam data bank, generate comprehensive exams, administer exams online, and analyze exam results. The 'Tutorial Scheduling System' allows the LRC to post tutorial schedules and to create new schedules based on student requests.

TOES utilized the Microsoft Word software in question construction because it is the most popular word processor among the LRC personnel. All existing hard copies of mock exams are created using the software. [2] To standardize the format for each question type, TOES resorted to creating 'question templates' which are actually 'Microsoft Word Templates.' These templates contain 'Macro Buttons' which guide the staff in constructing the question. The 'Toes Question Editor Form' is also included in these templates. This form presents the necessary tools that the staff might need. One of these tools is the 'Microsoft Word Equation Editor' which is very helpful in assembling mathematical and chemical formulas. Also, the save function in the form saves the question into .doc and .htm files. To sum it all, Microsoft Word helps the users develop web contents for TOES without requiring them to study HTML. The inclusion of this software, however, presents some disadvantages. First, the software is expensive. Second, the addition of the external application adds to the complexity of question construction. Lastly, the additional requirement might discourage potential non LRC-based personnel like UP Manila faculties from contributing questions using their own personal computer.

The TOES Exam Data Bank consists of the Question Bank, Exam Bank, and the Statistics Bank. The Question Bank is a collection of true or false, multiple choice and matching type questions in Chemistry, Mathematics, and Physics. Exams in the Exam Bank are created randomly or manually. Random exam generation in TOES, unlike most examination systems, requires descriptive Exam Coverage Filters. The exam items are drawn from the Question Bank using these filters, thus, creating a comprehensive and balanced exam. The Statistics Bank stores the obtained statistical measurement values from 'exam analysis' and 'exam item analysis.' The Exam Data Bank not only offers a safer way of storage but it also provides a faster extraction of exam materials.

As a consequence of the ascent of the internet, more people get accustomed to the different available web technologies, particularly the use of the web browser. To take advantage of this trend, TOES was designed as a web-based system. All TOES user interface is therefore viewed using a web browser, thus eliminating the need for developing a dedicated program for displaying interface and minimizing if not totally removing additional installations on the client's computer. This means that TOES can easily run on computers with compatible browser requirements. The only exception to the web-based interface is the Microsoft Word interface for the staff.

With high speed data networks, TOES can promise fast delivery of online examinations. These examinations can be deployed to a large number of students and provide instant feedback. To provide security each exam batch schedule requires a proctor. The proctor authorizes examinees to access the exams. To deter collaboration between students, the exam items are randomly displayed in the TOES Examination Window (TEW). This window has built-in security features that enforce certain rules on students when taking the TOES exam. A student who violates any of

these rules is automatically reported to the proctor. The system also offers improved reliability because machine marking is much more reliable than human marking. The Manual Exam on the other hand provides some advantages. The printing cost of questionnaires is cheaper compared to the cost of maintaining the TOES system. Also, Manual Exams are not affected by power failures. However, it is worth mentioning that in an ongoing TOES examinations any disconnections or power interruptions do not result into examiner data loss.

One of the most significant advantages in using TOES over the Manual Exam is the capability to provide instant examination results. Examinee scores and performance reports are immediately available right after the examination. These valuable information help tutors prepare detailed and relevant post-exam discussions. These reports also include the Exam Analysis and Exam Item Analysis results which are both stored in the Statistics Bank. These results provide powerful insights when revising exams and exam items. This is a tremendous achievement compared to the Manual Exam which takes more or less a week before releasing results. [1]

The online implementation enables students to register for an Exam Batch Schedule and to request or enlist in a tutorial schedule without going to school. Similarly, online posting of Exam Batch Schedules and Tutorial Schedules grants LRC the opportunity to reach a wider audience.

VII. CONCLUSION

The UP Manila Learning Resource Center's Tutorial and Online Examination System (TOES) is a web-based 'Examination System' and a 'Tutorial Scheduling System.' The system's architecture allows fast and simultaneous access for the following users: student, tutor, staff, admin, and director. TOES allows each user to manage their personal account. The following paragraphs discuss the other capacities given to each user.

TOES allows students to enlist in the existing Tutorial Schedules. However, if none of the available schedules favor the student, he/she may request for a tutorial schedule that suits him/her. The request consists of the subject, topic, tutor, the preferred day, and the preferred time. The student may also take mock examinations in Chemistry, Mathematics, and Physics. The latter however requires the student to register in an Exam Batch Schedule.

TOES allows tutors to manage their Tutorial Schedule by specifying their free time and their tutored subjects. The tutor may also view his/her 'Current Tutorial Schedules' and 'Previous Tutorial Schedules.'

The management of the Question Bank is assigned to the staff. The role involves maintaining the Subject, Topic, and Question records. The delicate work involved in question construction requires staffs to develop keen attention to detail. Moreover, staffs are also tasked to record the attendance of both enlisted and walk-in students in tutorials.

The admin is responsible for maintaining the Exam Bank. This responsibility encompasses the whole TOES examination process. First, he/she is responsible for the creation of exams. Second, he/she schedules exam batches. Lastly, he/she administers exams. The exam administration entails serving as a proctor for the exam and authorizing examinees who take the exam. The admin also sets tutorials based on availability or based on online requests. The administrative role also consists of managing student accounts, tutor accounts, and LRC personnel accounts.

The director account call for users with strong statistics background. The director can access the results of the Exam Analysis and the Exam Batch Analysis. These results are statistical data valuable in monitoring and evaluating the Learning Assistance Programs.

VIII. RECOMMENDATION

TOES as a tool for Licensure Reviews

One of the major requirements for attaining a professional title in a government regulated profession is the Licensure Examination. In order to become licensed, one has to pass the exam. To pass the exam, one has to review. One of the key aspects of reviewing is to practice test taking. Most students resort to Review Centers however the services offered by these centers are expensive. As an alternative, a University could, at the request of the students, develop its own so-called free review center. Colleges can take advantage of the TOES Exam Data Bank to provide a good amount of test problems and to develop more exams. It is important that the reviewer is given multiple attempts in taking the review. This means that the reviewer can get a different exam in each attempt. To accomplish this, a mechanism which generates random questions for the reviewer should be added to the TOES Examination System. This mechanism should also allow the reviewer to review previous exams using the TOES Exam Window (TEW). The question provider may include the explanation for the answer in each TOES question. This useful element is actually supported by TOES questions, however the system was not able to take full advantage of it because the LRC Examination does not allow examinees to review previous exams.

Support for other Question Types

Currently TOES supports true or false, multiple choice, and matching type questions. Including Essay, Ordering, Fill in the Blank and Multiple Answer question types could help question builders develop more creative and effective questions.

Dedicated web-based Question Editor and support for other Word Processors

The current TOES specification employs the Microsoft Office Word 2002 software to construct questions. The reason behind the strict accordance to the software version is that Microsoft VisualBasic Macro Scripts do not function well with other versions. The solution is to create individual TOES Question Templates for each Microsoft Office Word version. TOES was designed with interoperability in mind so that support for other Word Processors is possible. OpenOffice Writer, a word processor similar in look and feel to Microsoft Office Word and offers its own Macro Script support, is a worthy alternative. To counter the challenges presented by future versions of these Word Processors a dedicated web-based Question Editor should be made.

TOES as a tool for conducting Surveys

Surveys are indispensable tools for gathering sample of data or opinions considered to be representative of a whole. [19] Survey questionnaires could be easily deployed using TOES. The LRC or any UP Manila unit could benefit from it because it would allow them to gather required data quickly and securely.

Improved Student Account Registration and Activation

The registration and reactivation of student accounts for TOES is frustrating because it involves encoding over a thousand student information records. It would be best if the system could tap an existing UP Manila database and extract the required records. One of the prospective sources is the UP Manila Computerized Registration System (CRS).

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<http://www.fscreations.com/>
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<http://www.prc.gov.ph>
- ⁵ Philippines Civil Service Commission (PCSC) Computer-Assisted Testing (CAT) URL:
<http://www.csc.gov.ph/>
- ⁶ Coursewebs Website URL: <http://www.coursewebs.com>
- ⁷ Moodle Website URL: <http://moodle.org>
- ⁸ Random Test Generator Website URL:
http://www.hirtlesoftware.com/p_rtgpro.htm
- ⁹ Fujitsu Case Studies Website URL:
<http://www.fujitsu.com/ph/casestudies/napolcom.html>
- ¹⁰ WebCT Website URL: <http://www.webct.com/>
- ¹¹ Scantron Website URL: <http://www.scantron.com>
- ¹² MindwebX Website URL: <http://www.mindwebx.com>
- ¹³ Information Systems Definition from Answers.com Website URL:
<http://www.answers.com/information%20system>
- ¹⁴ MySQL Website. URL: <http://www.mysql.com>
- ¹⁵ Definition of Scripting Languages URL: <http://www.tcl.tk/doc/scripting.html>
- ¹⁶ PHP Website. URL: <http://www.php.com>
- ¹⁷ What is JavaScript? URL: <http://www.mozilla.org/js/>

¹⁸ Client-side JavaScript Definition URL:

http://www.phpfreaks.com/javascript_manual/page/intro.htm#1009369

¹⁹ Definition of Surveys URL: <http://www.thefreedictionary.com/surveys>

X. APPENDIX

A. SQL

toes.sql

```
# phpMyAdmin MySQL-Dump
# version 2.2.3
# http://phpmyzard.net/phpMyAdmin/
# http://phpmyadmin.sourceforge.net/ (download page)
#
# Host: localhost
# Generation Time: Apr 02, 2007 at 09:25 AM
# Server Version: 3.23.47
# PHP Version: 4.1.1
# Database: `toes`
# -----
#
# Table structure for table `answer`
#
CREATE TABLE answer (
  batch_id smallint(6) NOT NULL default '0',
  student_number varchar(10) NOT NULL default '',
  answerString text NOT NULL,
  randomItem text NOT NULL,
  lastViewedItem smallint(6) NOT NULL default '0',
  score smallint(6) NOT NULL default '0'
) TYPE=MyISAM;
# -----
#
# Table structure for table `attendance`
#
CREATE TABLE attendance (
  student_number varchar(10) NOT NULL default '',
  tutorial_id smallint(6) NOT NULL default '0',
  status enum('present','absent') NOT NULL default 'present',
  enlistmentMethod enum('online','walk in') NOT NULL default 'online'
) TYPE=MyISAM;
# -----
#
# Table structure for table `batch`
#
CREATE TABLE batch (
  batch_id smallint(6) NOT NULL default '0',
  exam_id smallint(6) NOT NULL default '0',
  date date NOT NULL default '0000-00-00',
  examTime tinytext NOT NULL,
  discussonTime tinytext NOT NULL,
  availableSlots int(3) NOT NULL default '0',
  accessibility enum('open','closed') NOT NULL default 'open',
  term enum('first','second','summer') NOT NULL default 'first',
  sy varchar(9) NOT NULL default '0000-0000',
  PRIMARY KEY (batch_id),
  UNIQUE KEY batch_id (batch_id)
) TYPE=MyISAM;
# -----
#
# Table structure for table `degree_programs`
#
CREATE TABLE degree_programs (
  degreeProgram_id smallint(6) NOT NULL auto_increment,
  college_id smallint(6) NOT NULL default '0',
  degreeProgramName tinytext NOT NULL,
  PRIMARY KEY (degreeProgram_id)
) TYPE=MyISAM;
# -----
#
# Table structure for table `enlistment`
#
CREATE TABLE enlistment (
  student_number varchar(10) NOT NULL default '0',
  tutorial_id smallint(6) NOT NULL default '0',
  priorityNumber smallint(3) NOT NULL default '0'
) TYPE=MyISAM;
# -----
#
# Table structure for table `exam`
#
CREATE TABLE exam (
  exam_id smallint(6) NOT NULL default '0',
  subject_id smallint(6) NOT NULL default '0',
  description tinytext NOT NULL,
  author tinytext NOT NULL,
  allottedTime time NOT NULL default '00:00:00',
  dateCreated datetime NOT NULL default '0000-00-00 00:00:00',
  depthNum text NOT NULL,
  PRIMARY KEY (exam_id),
  UNIQUE KEY exam_id (exam_id)
) TYPE=MyISAM;
# -----
#
# Table structure for table `exam_item`
#
CREATE TABLE exam_item (
  exam_id smallint(6) NOT NULL default '0',
  question_id smallint(6) NOT NULL default '0',
  questionNum smallint(6) NOT NULL default '0',
  pointAssigned tinyint(4) NOT NULL default '1',
  itemStatistic mediumtext NOT NULL,
  segment tinyint(4) NOT NULL default '0'
) TYPE=MyISAM;
# -----
#
# Table structure for table `file`
#
```

```

#
CREATE TABLE file (
  file_id smallint(6) NOT NULL auto_increment,
  question_id smallint(6) NOT NULL default '0',
  type tinytext NOT NULL,
  origFilename tinytext NOT NULL,
  src tinytext NOT NULL,
  PRIMARY KEY (file_id)
)
TYPE=MyISAM;
#-----

#
# Table structure for table `irc_personnel`
#
CREATE TABLE irc_personnel (
  personnel_id smallint(4) NOT NULL default '0',
  personnelType enum('administration officer','irc director','staff') NOT NULL default 'staff',
  firstName tinytext NOT NULL,
  middleName tinytext NOT NULL,
  lastName tinytext NOT NULL,
  username varchar(16) NOT NULL default '',
  password varchar(16) NOT NULL default '',
  PRIMARY KEY (personnel_id)
)
TYPE=MyISAM;
#-----

#
# Table structure for table `performance`
#
CREATE TABLE performance (
  performance_id smallint(6) NOT NULL default '0',
  exam_id smallint(6) NOT NULL default '0',
  rawData mediumtext NOT NULL,
  summary mediumtext NOT NULL,
  PRIMARY KEY (performance_id),
  UNIQUE KEY performance_id (performance_id)
)
TYPE=MyISAM;
#-----

#
# Table structure for table `question`
#
CREATE TABLE question (
  question_id smallint(6) NOT NULL default '0',
  topic_id smallint(6) NOT NULL default '0',
  questionType enum('matching type','multiple choice','true or false','essay','problem solving') NOT NULL default 'multiple choice',
  objects mediumtext NOT NULL,
  answerText NOT NULL,
  answerExp mediumtext NOT NULL,
  author tinytext NOT NULL,
  difficulty enum('very easy','easy','medium','hard','very hard') NOT NULL default 'very easy',
  PRIMARY KEY (question_id)
)
TYPE=MyISAM;
#-----

#
# Table structure for table `registration`
#
CREATE TABLE registration (
  batch_id smallint(6) NOT NULL default '0',
  student_number varchar(10) NOT NULL default '',
  registrationDate datetime NOT NULL default '0000-00-00 00:00:00',
  remainingTime time NOT NULL default '00:00:00',
  registrationType enum('online','submitted') NOT NULL default 'online',
  status enum('waiting','answering','blocked','finished') NOT NULL default 'waiting',
  authorization enum('no','yes') NOT NULL default 'no',
  offense tinytext NOT NULL,
  previousTimeStamp datetime default NULL
)
TYPE=MyISAM;
#-----

#
# Table structure for table `request`
#
CREATE TABLE request (
  request_id smallint(6) NOT NULL default '0',
  student_number varchar(10) NOT NULL default '',
  subject smallint(6) NOT NULL default '0',
  topic text NOT NULL,
  preferredTutor smallint(6) NOT NULL default '0',
  preferredDay date NOT NULL default '0000-00-00',
  preferredTime tinytext NOT NULL,
  requestDate datetime NOT NULL default '0000-00-00 00:00:00'
)
TYPE=MyISAM;
#-----

#
# Table structure for table `statistics_exam`
#
CREATE TABLE statistics_exam (
  exam_id smallint(6) NOT NULL default '0',
  nItems float NOT NULL default '0',
  nMCItems float NOT NULL default '0',
  nMCExamines float NOT NULL default '0',
  nMCExamines float NOT NULL default '0',
  mean float NOT NULL default '0',
  variance float NOT NULL default '0',
  standardDeviation float NOT NULL default '0',
  skew float NOT NULL default '0',
  kurtosis float NOT NULL default '0',
  minimum float NOT NULL default '0',
  maximum float NOT NULL default '0',
  median float NOT NULL default '0',
  KR20 float NOT NULL default '0',
  KR21 float NOT NULL default '0',
  SB float NOT NULL default '0',
  generation enum('system','user') NOT NULL default 'system'
)
TYPE=MyISAM;
#-----

#
# Table structure for table `statistics_item`
#
CREATE TABLE statistics_item (
  exam_id smallint(6) NOT NULL default '0',
  question_id smallint(6) NOT NULL default '0',
  itemDifficulty float default NULL,
  DI float default NULL,
  PBC float default NULL,
  generation enum('system','user') NOT NULL default 'system'
)
TYPE=MyISAM;

```



```

# -----
#
# Table structure for table `student`
#
CREATE TABLE student (
  student_number varchar(10) NOT NULL default '',
  firstName tinytext NOT NULL,
  middleName tinytext NOT NULL,
  lastName tinytext NOT NULL,
  course tinytext NOT NULL,
  college tinytext NOT NULL,
  mobilePhone varchar(15) NOT NULL default '',
  landPhone varchar(15) NOT NULL default '',
  email tinytext NOT NULL,
  password varchar(16) NOT NULL default '',
  status enum('inactive','suspended','active') NOT NULL default 'inactive',
  PRIMARY KEY (student_number)
) TYPE=MyISAM;
# -----
#
# Table structure for table `subject`
#
CREATE TABLE subject (
  subject_id smallint(6) NOT NULL auto_increment,
  subjectName tinytext NOT NULL,
  subjectDescription text NOT NULL,
  PRIMARY KEY (subject_id)
) TYPE=MyISAM;
# -----
#
# Table structure for table `topic`
#
CREATE TABLE topic (
  topic_id smallint(6) NOT NULL auto_increment,
  subject_id smallint(6) NOT NULL default '0',
  topicName tinytext NOT NULL,
  deptNum text NOT NULL,
  PRIMARY KEY (topic_id)
) TYPE=MyISAM;
# -----
#
# Table structure for table `tutor`
#
CREATE TABLE tutor (
  tutor_id int(11) NOT NULL default '0',
  firstName tinytext NOT NULL,
  middleName tinytext NOT NULL,
  lastName tinytext NOT NULL,
  birthday date NOT NULL default '0000-00-00',
  username varchar(16) NOT NULL default '',
  password varchar(16) NOT NULL default '',
  mobilePhone varchar(15) NOT NULL default '',
  landPhone varchar(15) NOT NULL default '',
  email tinytext NOT NULL,
  tutorType enum('f','p') NOT NULL default 'p',
  deptCourse smallint(6) NOT NULL default '0',
  tutoredSubject tinytext NOT NULL,
  PRIMARY KEY (tutor_id)
) TYPE=MyISAM;
# -----
#
# Table structure for table `tutor_schedule`
#
CREATE TABLE tutor_schedule (
  tutorSchedule_id smallint(6) NOT NULL default '0',
  tutor_id smallint(6) NOT NULL default '0',
  prefDay tinytext NOT NULL,
  prefTime tinytext NOT NULL,
  PRIMARY KEY (tutorSchedule_id)
) TYPE=MyISAM;
# -----
#
# Table structure for table `tutorial`
#
CREATE TABLE tutorial (
  tutorial_id smallint(6) NOT NULL default '0',
  tutor_id smallint(6) NOT NULL default '0',
  subject smallint(6) NOT NULL default '0',
  topic text NOT NULL,
  time tinytext NOT NULL,
  date date NOT NULL default '0000-00-00',
  PRIMARY KEY (tutorial_id)
) TYPE=MyISAM;
# -----
#
# Table structure for table `upm_colleges`
#
CREATE TABLE upm_colleges (
  college_id smallint(6) NOT NULL auto_increment,
  collegeName tinytext NOT NULL,
  PRIMARY KEY (college_id)
) TYPE=MyISAM;
# -----
#
# Table structure for table `upm_departments`
#
CREATE TABLE upm_departments (
  department_id smallint(6) NOT NULL auto_increment,
  departmentName tinytext NOT NULL,
  PRIMARY KEY (department_id)
) TYPE=MyISAM;

```



```

$userTypeArrayElem = $userTypeArray[$i];
if($i == 0){
    echo "<tr>";
}
echo "
<td align='center' style='border: 0;' >a href=' /toes/$userTypeArrayElem/$userTypeArrayElem.php?firstView=true'
onmouseover='changeSrc(\"$userTypeArrayElem\", \"over\")' onmouseout='changeSrc(\"$userTypeArrayElem\", \"out\")' >
name=' $userTypeArrayElem' src=' /toes/files/pics/$userTypeArrayElem' . \"_50.gif' /></td>";

if($i == 0){
    echo "
<td rowspan=' 5' align='center' valign='center' style='border: 0;' >
<img src=' /toes/files/pics/main_page_lrc_logo.gif' /></td></tr>";
}
echo "</tr>";
}
//echo "
<tr><td colspan=' 3' align='center' valign='center' style='background-color: transparent; border: 0;' >
<tr><td colspan=' 3' align='center' valign='center' bgcolor= '#800000' style='border: 0;' >";
echo "</table>";
echo "</td>";
echo "</tr></table>";
echo "</body>";
echo "</html>";
}
?>

```

toes.inc.php

<?php

```

////////////////////////////////////
/*
if (!isset($_HTTP_COOKIE_VARS["PHPSESSID"]) && !isset($_GET["PHPSESSID"])){
    session_start();
    $sess_id = substr(SID, (strpos(SID, "=")+1));
    if($GLOBALS["QUERY_STRING"] == ""){
        $redirect_url = $GLOBALS["userScript"]. "?PHPSESSID=" . $sess_id;
    }
    else{
        $redirect_url = $GLOBALS["userScript"]. $GLOBALS["REQUEST_URI"]. "&PHPSESSID=" . $sess_id;
    }
    // initialize cookies...
    $ck_c = 0;
    $ck_j = 0;
    setcookie("PHPSESSID", $sess_id);
    setcookie("ck_c", $ck_c);
    setcookie("ck_j", $ck_j);
    header("Location: " . $redirect_url);
    exit;
}
elseif (!isset($_HTTP_COOKIE_VARS["PHPSESSID"]) && isset($_GET["PHPSESSID"])){
    //cookies are disabled
    printNoscript(1);
    exit;
}
else{
    //cookies are enabled
    //check if javascript is enabled...
    $ck_c = $_HTTP_COOKIE_VARS["ck_c"];
    $ck_j = $_HTTP_COOKIE_VARS["ck_j"];

    if(($ck_c == $ck_j) && ($ck_j != "0")){
        printNoscript(1);
        exit;
    }
    else{
        $ck_c = $ck_j;
        setcookie("ck_c", $ck_c);
        setcookie("ck_j", $ck_j);
    }
}
//check for browser cookie support...
/*
if (!isset($_COOKIE["PHPSESSID"]) && !isset($_GET["PHPSESSID"])) {
    $sess_id = substr(SID, (strpos(SID, "=")+1));
    $_COOKIE["PHPSESSID"] = $sess_id;
    $redirect_url = "http://" . $_SERVER["HTTP_HOST"] . $_SERVER["PHP_SELF"] . "?PHPSESSID=" . $sess_id;
    header("Location: $redirect_url");
    exit;
}
elseif (!isset($_COOKIE["PHPSESSID"]) && isset($_GET["PHPSESSID"])) {
    //cookies are disabled
    $sess_id = substr(SID, (strpos(SID, "=")+1));
    $_SESSION["PHPSESSID"] = $sess_id;
    $_COOKIE["PHPSESSID"] = $sess_id;
    javascript_cookie_error(1);
    exit;
}
*/
////////////////////////////////////
//handle browser javascript and cookie issues...
function printNoscript($displayMode = 0){
    if($displayMode == 1){
        echo "<html><head></head><body>";
    }
    if($displayMode == 0){
        echo "<NOSCRIPT>";
    }
    echo "
<div id='printNoscriptDiv' style='background-color: black; position: absolute; width: 100%; height: 100%; text-align: center; ' >";
//echo "
<div id='printNoscriptDiv' style='background-color: black; position: absolute; top: 0px; left: 0px; width: 100%; height: 100%; text-align: center; width=' 100%' height=' 100%' >";
echo "<tr>";
echo "
<td align='center' >";
echo "
<img src=' /toes/files/pics/cookiesJavascriptError.jpg' />";
echo "
<br><br>";
echo "
<a href=' $GLOBALS[PHP_SELF]' ><font style='color: white; font-size: 110%; ' >click here reload this page</font></a>";
echo "</td>";
echo "</tr>";
echo "</table>";
echo "</div>";
}
if($displayMode == 0){
    echo "<NOSCRIPT>";
}
if($displayMode == 1){
    echo "</body></html>";
}
}
////////////////////////////////////
//variables used for formatting...
$tabs = "
"; //used by majority of modules...
////////////////////////////////////
//vars for 'TUTORIAL SYSTEM'
$maxTutorialEnlistees = 3; //this var is shared by STUDENT, STAFF, ADMIN...
////////////////////////////////////
//vars for 'EXAMINATION SYSTEM'
$rebsWaitingPeriod = 10; //waiting time for REBS (REGISTERED EXAM BATCH SCHEDULE)
////////////////////////////////////

```

```
//vars for the optWindow (priority table)
$numOfHappyPics = 23;
$numOfSadPics = 23;
?>
```

C. ADMIN

admin.php

```
<?php
session_start();
require_once('..../toes/inc.php');
require_once('admin_funcs.php');
if($firstVisit == "True"){
    $errorMessage = "";
}
$username:
$password:
if($logout == '1'){
    session_unregister("username");
    session_unregister("password");
    session_unregister("hasLoggedIn");
    session_unregister("errorMessage");
    session_unregister("userScript");
    session_unset();
    session_destroy();
    $logout = 0;
    $hasLoggedIn = 0;
    $errorMessage = "";
    $returnToHomepage = true;
}
if(($login)&&($logout != '1')){
    authorized_User();
    session_register("hasLoggedIn");
    header("Location: " . "http://" . $_SERVER["HTTP_HOST"] . $_SERVER["PHP_SELF"]);
}
if(($SESSION["hasLoggedIn"] == '1')&&($SESSION["userScript"] == 'admin.php')){
    if($activeNav == ""){
        $activeNav = "Tutorial";
    }
    print_Top_Nav();
    print_Banner();
    print_Nav();
    print_Tab();
    print_Body();
    print_Footer();
}
else{
    if($hasLoggedIn == '2'){
        //echo "$errorMessage";
        //echo "<br>";
    }
    display_Login_Form();
}
////////////////////////////////////
function print_Top_Nav(){
    global $activeNav;
    global $activeTab;
    global $returnToHomepage;

    //add the 'administer exam' tab
    global $batchScheduleIdToAdministerH;
    if(isset($batchScheduleIdToAdministerH)&&($batchScheduleIdToAdministerH != "")){
        $activeTab = "Administer Exam";
    }

    print("<html>");
    print("<head>");
    print("<title>ADMIN Module</title>");
    echo "<SCRIPT LANGUAGE='JavaScript' SRC='admin_JavaScript.js'></SCRIPT>";
    printNoscript();
    print("<link rel='stylesheet' type='text/css' href='admin_Style.css' />");
    print("</head>");
    print("<body onLoad='window.onload(' $activeNav', ' $activeTab')' onUnload='window.onload()'>");
    print("<div>");
    print("<ul class='topnav'>");
    print("<li><a href='custhel.php?statpos=topnav'>Help</li>");
    print("<li class='lastli'><a href='?logout=1'>Logout</a></li>");
    print("</ul>");
    print("</div>");
    print("<br>");
}
////////////////////////////////////
function print_Banner(){
    global $username;
    echo "<div class='banner'>";
    echo "<table>";
    echo "<tr><td height='100px' width='382px' background='/toes/files/pics/toes_logo.jpg'></td>";
    echo "<td height='100px' width='200px' background='/toes/files/pics/main-page_logos_upm_lrc.gif'></td>";
    echo "<td height='100px' width='382px' background='/toes/files/pics/admin.gif' align='center' valign='bottom' style='padding-bottom: 10px;'><font style='vertical-align: text-bottom; size= 4px' color=' #808080'>$username</font></td>";
    echo "</tr></table>";
    echo "</div>";
}
////////////////////////////////////
function print_Nav(){
    global $activeNav;
    global $activeTab;
    print("<div id='nav'><div><ul>");
    if($activeNav == "Tutorial"){
        print("<li class='navselected'>");
        el se
        print("<li>");
        print("<a href='?activeNav=Tutorial&activeTab='>Tutorial</a></li>");
        if($activeNav == "Exam")
            print("<li class='navselected'>");
        el se
        print("<li>");
        print("<a href='?activeNav=Exam&activeTab='>Exam</a></li>");
        if($activeNav == "User Accounts")
            print("<li class='navselected'>");
        el se
        print("<li>");
        print("<a href='?activeNav=User Accounts&activeTab='>User Accounts</a></li>");
        if($activeNav == "My Account")
            print("<li class='navselected'>");
        el se
        print("<li class='lastli'>");
        print("<a href='?activeNav=My Account&activeTab='>My Account</a></li>");
        print("&nbsp;");
        print("</ul>");
    }
}
```

```

print("</div></div>");
//print("<br>");
echo "<div style='background-color: FFFFFF; font-size: 75%;' >&nbsp;&nbsp;&nbsp;</div>";
//print("<table width='100%' bgcolor='white' border='1'><tr><td>&nbsp;&nbsp;&nbsp;</td></tr></table>");
}
////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////
function print_Tab(){
global $activenav;
global $activeTab;

//jump to 'Edit exam' if user selected manual creation of exam
global $action;
global $mode;
global $deptCurrent;
global $examDeptCurrent;
global $examDeptCurrent;
if(($action == 'create exam')&&($mode == 'manual')&&($deptCurrent != '')){
$activeTab = 'Edit Exam';
$examDeptCurrent = $deptCurrent;
}
//add the 'administer exam' tab
global $batchScheduleIdToAdministerH;
if(isset($batchScheduleIdToAdministerH)&&($batchScheduleIdToAdministerH != "")){
$activeTab = "Administer Exam";
}
//display active tab elements...
print("<div id='content'>");
print("<ul class='tabs'>");
//include 'Tutorial Schedule Enlistment' tab when tutorialIdToManageH != ""
global $tutorialIdToManageH;
if($tutorialIdToManageH != ""){
$activeTab = 'Tutorial Schedule Enlistment';
}

switch($activenav){
case 'Tutorial':
if($activeTab == ''){
$activeTab = 'Tutorial Schedule';
}
if($activeTab == 'Tutorial Schedule'){
print("<li class='tabselected'>Tutorial Schedule</li>");
} else {
print("<li><a href='?activeNav=$activenav&activeTab=Tutorial Schedule'>Tutorial Schedule</a></li>");
}
if($activeTab == 'Tutorial Schedule Enlistment'){
print("<li class='tabselected'>Tutorial Schedule Enlistment</li>");
}
if($activeTab == 'Tutorial Request'){
print("<li class='tabselected'>Tutorial Request</li>");
} else {
print("<li><a href='?activeNav=$activenav&activeTab=Tutorial Request'>Tutorial Request</a></li>");
}
if($activeTab == 'Peer Schedule'){
print("<li class='tabselected'>Peer Schedule</li>");
} else {
print("<li><a href='?activeNav=$activenav&activeTab=Peer Schedule'>Peer Schedule</a></li>");
}
if($activeTab == 'Faculty Schedule'){
print("<li class='tabselected'>Faculty Schedule</li>");
} else {
print("<li><a href='?activeNav=$activenav&activeTab=Faculty Schedule'>Faculty Schedule</a></li>");
}
break;
case 'Exam':
if($activeTab == ''){
$activeTab = 'Create Exam';
}
if($activeTab == 'Create Exam'){
print("<li class='tabselected'>Create Exam</li>");
} else {
print("<li><a href='?activeNav=$activenav&activeTab=Create Exam'>Create Exam</a></li>");
}
if($activeTab == 'Edit Exam'){
print("<li class='tabselected'>Edit Exam</li>");
} else {
print("<li><a href='?activeNav=$activenav&activeTab=Search Exam&redirectedFromEdit=yes'>Edit Exam</a></li>");
}
if($activeTab == 'Search Exam'){
print("<li class='tabselected'>Search Exam</li>");
} else {
print("<li><a href='?activeNav=$activenav&activeTab=Search Exam&examDescriptionMatchFilterClick=yes'>Search Exam</a></li>");
}
if($activeTab == 'Exam Schedule'){
print("<li class='tabselected'>Exam Schedule</li>");
} else {
//print("<li><a href='?activeNav=$activenav&activeTab=Search Exam&redirectedFromExamSchedule=yes'>Exam Schedule</a></li>");
print("<li><a href='?activeNav=$activenav&activeTab=Exam Schedule'>Exam Schedule</a></li>");
}
if($activeTab == 'Administer Exam'){
print("<li class='tabselected'>Administer Exam</li>");
}
break;
case 'User Accounts':
if($activeTab == ''){
$activeTab = 'Student Account';
}
if($activeTab == 'Student Account'){
print("<li class='tabselected'>Student Account</li>");
} else {
print("<li><a href='?activeNav=$activenav&activeTab=Student Account'>Student Account</a></li>");
}
if($activeTab == 'Add Student List'){
print("<li class='tabselected'>Add Student List</li>");
}
if($activeTab == 'Tutor Account'){
print("<li class='tabselected'>Tutor Account</li>");
} else {
print("<li><a href='?activeNav=$activenav&activeTab=Tutor Account'>Tutor Account</a></li>");
}
if($activeTab == 'LRC Account'){
print("<li class='tabselected'>LRC Account</li>");
} else {
print("<li><a href='?activeNav=$activenav&activeTab=LRC Account'>LRC Account</a></li>");
}
break;
case 'My Account':
if($activeTab == ''){
$activeTab = 'Change Password';
}
if($activeTab == 'Change Password'){
print("<li class='tabselected'>Change Password</li>");
} else {
print("<li><a href='?activeNav=$activenav&activeTab=Change Password'>Change Password</a></li>");
}
break;
default:
break;
}
print("</ul>");
}
////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////
function print_Body(){
print("<div class='content'>");
print("<div class='inside'>");
//print("<div class='insidebody'>");

print_Function();

//print("</div>");
print("</div>");
print("</div>");
}
////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////

```

```

function print_Function(){
global $activenav;
global $activeTab;
global $examEdtFromBrowse;
global $action;
global $examCurrent;
global $questionToDelete;
global $removeExamItem;
global $usingStatisticsFrequencySubmit;
global $examCoverageFormSubmit;
global $examToSaveAsFromBrowse;

switch($activenav){
case 'Tutorial':
switch($activeTab){
case 'Tutorial_Schedule':
manage_Tutorial_Schedule();
break;
case 'Tutorial_Schedule_Enlistment':
manage_Tutorial_Schedule_Enlistment();
break;
case 'Tutorial_Request':
manage_Tutorial_Request();
break;
case 'Peer_Schedule':
display_Tutor_Schedule();
break;
case 'Faculty_Schedule':
display_Tutor_Schedule();
break;
default:
print("Please select from the tabbed-menu");
break;
}
break;
case 'Exam':
switch($activeTab){
case 'Create_Exam':
generate_Exam();
break;
case 'Edit_Exam':
if($action == 'generate_exam'){
add_Generated_Exam();
//echo "[A]";
$action = '';
}
if($usingStatisticsFrequencySubmit == 'generate_exam'){
add_Generated_Exam_Statistics();
//echo "[A.1]";
$usingStatisticsFrequencySubmit = '';
}
if($examCoverageFormSubmit == "generate_exam"){
add_Generated_Exam_Automated();
$examCoverageFormSubmit = "";
}
if(($questionToDelete != '')&&($removeExamItem == 'X')){
$examEdtFromBrowse = $examCurrent;
//echo "[C]";
}
if($examToSaveAsFromBrowse != ''){
connect_Db();
//copy the properties of the original...
$examEdtFromBrowse = get_Next_Id('exam_id', 'exam');
$examDateCreated = date("Y-m-d H:i:s", time());
$query = "SELECT * FROM exam WHERE exam_id=$examToSaveAsFromBrowse ";
$result = mysql_query($query);
$row = mysql_fetch_row($result);
$query = "INSERT INTO exam VALUES ('$examEdtFromBrowse', '$row[1]', '$row[2]', '$row[3]', '$row[4]', '$examDateCreated', '$row[6]')";
$result = mysql_query($query);
//copy the exam items of the original...
$query = "SELECT * FROM exam_item WHERE exam_id=$examToSaveAsFromBrowse ";
$result = mysql_query($query);
while($row = mysql_fetch_row($result)){
$queryA = "INSERT INTO exam_item VALUES ('$examEdtFromBrowse', '$row[1]', '$row[2]', '$row[3]', '$row[4]', '$row[5]')";
$resultA = mysql_query($queryA);
}
$examToSaveAsFromBrowse = "";
}
if(isset($examEdtFromBrowse)&&($examEdtFromBrowse != '')){
//echo "[B]";
get_Exam_Info();
$examEdtFromBrowse = '';
}
edit_Exam();
break;
case 'Search_Exam':
exam_Query();
break;
case 'Exam_Schedule':
manage_Exam_Schedule();
break;
case 'Administer_Exam':
administer_Exam();
break;
default:
print("Please select from the tabbed-menu");
break;
}
break;
case 'User_Accounts':
switch($activeTab){
case 'Student_Account':
manage_Student_Accounts();
break;
case 'Add_Student_List':
add_Student_List();
break;
case 'Tutor_Account':
manage_Tutor_Accounts();
break;
case 'LRC_Account':
manage_LRC_Accounts();
break;
default:
print("Please select from the tabbed-menu");
break;
}
break;
case 'My_Account':
switch($activeTab){
case 'Change_Password':
manage_Password();
break;
default:
print("Please select from the tabbed-menu");
break;
}
}
}

```

```

        break;
    default:
        print("Please select from the menu!");
        break;
    }
}
////////////////////////////////////
function print_Footer(){
    print("<div style='display: flex; justify-content: space-between; align-items: center; padding: 10px 0;'>");
    print("<div style='width: 30%; text-align: center; font-size: 0.8em; font-weight: normal; color: #000000;'>");
    print("<div style='width: 30%; text-align: center; font-size: 0.8em; font-weight: normal; color: #000000;'>");
    print("<div style='width: 30%; text-align: center; font-size: 0.8em; font-weight: normal; color: #000000;'>");
    print("</div>");
    print("</div>");
    print("</div>");
    print("</div>");
    print("</div>");
    print("</div>");
    print("</div>");
    print("</div>");
}
////////////////////////////////////
function toHtml($htmlLine){
    return (str_replace("\n", "\n", $htmlLine));
}
////////////////////////////////////
function authorized_User(){
    global $username;
    global $password;
    global $errorMessage;
    global $hasLoggedIn;
    global $userScript;

    connect_Db();
    $query = "SELECT * FROM irc_personnel where username='\$username' and password='\$password' and personnelType='administrati on officer' ";
    $result = mysql_query($query);
    $myrow = mysql_fetch_array($result);

    if(($username != NULL)&&($password != NULL)&&($myrow[username] == $username)&&($myrow[password] == $password)){
        $hasLoggedIn=1;
        session_register("hasLoggedIn");
        session_register("username");
        session_register("password");
        $userScript= 'admin.php';
        session_register("userScript");
    }
    else{
        if(($username == NULL)||($password == NULL)){
            $errorMessage = "error: Please enter your username and password!";
        }
        else{
            $errorMessage = "error: Invalid username or password!";
        }
        session_register("errorMessage");
        $hasLoggedIn=2;
        session_register("hasLoggedIn");
    }
}
////////////////////////////////////
function display_Login_Form(){
    global $username;
    global $password;
    global $hasLoggedIn;
    global $Logout;
    global $errorMessage;
    global $returnToHomepage;

    echo "<html style='background-image: url(\"/toes/files/pics/toes_logo_userLogin.jpg\");'>";
    echo "<head>";
    echo "<title>ADMIN Login Page</title>";
    echo "<SCRIPT LANGUAGE='JavaScript' SRC='admin_n_JavaScript.js'></SCRIPT>";
    printNoscript();
    echo "</head>";
    if($returnToHomepage){
        echo "<body onLoad='window.location=\"/toes/\">";
    }
    else{
        echo "<body onLoad='animateUsingToesColors(\"toesHomeLink\");'>";
    }
    echo "<table width='100%' height='100%' border='0' cellpadding='0' cellspacing='0'>";
    echo "<tr><td align='center' border='0' cellpadding='0' cellspacing='0'>";
    echo "<table align='center' border='0' cellpadding='0' cellspacing='0'>";
    echo "<tr><td align='center' bgcolor='#FFFFFF'><b>a id='toesHomeLink' href='/toes/' style='color:white;text-decoration:none;'>back to TOES";
    echo "<tr><td align='center' bgcolor='#FFFFFF'><b>home page</td><td align='center' bgcolor='#FFFFFF'><b>";
    echo "<tr><td align='center' bgcolor='#FFFFFF'><b>";
    echo "<tr><td align='center' bgcolor='#FFFFFF'><b>";
    //echo "[username=$username][password=$password][hasLoggedIn=$hasLoggedIn][Logout=$Logout][userScript=$userScript]";
    print("<table border='0'>");
    print("<tr><td align='center' colspan='2'><input type='text' name='username'>");
    print("<tr><td align='center' colspan='2'><input type='password' name='password'>");
    print("<tr><td align='center' colspan='2'><input type='submit' name='Login' value='Login'>");
    print("</table>");
    echo "</td></tr>";
    echo "<tr><td align='center' bgcolor='#FFFFFF'><b>";
    echo "</td></tr></table>";
    echo "</body>";
    echo "</html>";
}
////////////////////////////////////
function refresh_Page($location){
    header("Location: $location");
}
////////////////////////////////////
function connect_Db(){
    // $dbuser = ' ';
    // $dbpassword = ' ';
    // $dbhost = 'localhost';
    // $dbname = 'eav';
    // $db_connection = mysql_connect ($dbhost, $dbuser, $dbpassword);
    // mysql_select_db ($dbname);
    $db = mysql_connect("localhost", "", die(err_msg()));
    mysql_select_db("toes", $db);
}
////////////////////////////////////
function err_msg(){
    echo "An error occurred.";
    echo mysql_error();
    echo "Try reloading this page-ctrl+r";
    echo "Sorry for the inconvenience, for more information please contact the administrator";
}
////////////////////////////////////
?>

```



```

$statPriorityOptonValuesArray = array('system', 'user', 'bothSystem', 'bothUser');
$statPriorityOptonDisplayArray = array('SYSTEM statistics only', 'USER statistics only', 'both but prioritize SYSTEM', 'both but
prioritize USER');
for($i = 0; $i < count($statPriorityOptonValuesArray); $i++){
    if($statPriority == $statPriorityOptonValuesArray[$i]){
        echo "<option value=' $statPriorityOptonValuesArray[$i]' selected='selected'>$statPriorityOptonDisplayArray[$i]</option>";
    }
    else{
        echo "<option value=' $statPriorityOptonValuesArray[$i]'>$statPriorityOptonDisplayArray[$i]</option>";
    }
}
echo "</select>";
echo "</td></tr>";
echo "<input type='hidden' name='action' value=' $action' />";
echo "<input type='hidden' name='mode' value=' $mode' />";
echo "<tr><td colspan='2' align='center'><input type='submit' name='usingStatisticsSubmit' value=' initialize' /></td></tr>";
echo "</form>";
echo "</table>";

if($usingStatisticsSubmit == "initialize"){
    if(($sessionId == "") && ($diC == "") && ($pbc == "")){
        $statPriority = "";
    }
    $query = "SELECT q.question_id, q.questionType";
    if(($statPriority == "system") || ($statPriority == "user")){
        $query .= ", si.itemDifficulty, si.DI, si.PBC ";
    }
    if($statPriority == "bothSystem"){
        $query .= ", IFNULL(si.itemDifficulty, si.itemDifficulty), ";
        $query .= "IFNULL(si.DI, si.DI), ";
        $query .= "IFNULL(si.PBC, si.PBC) ";
    }
    if($statPriority == "bothUser"){
        $query .= ", IFNULL(si.itemDifficulty, si.itemDifficulty), ";
        $query .= "IFNULL(si.DI, si.DI), ";
        $query .= "IFNULL(si.PBC, si.PBC) ";
    }
    $query .= " FROM subject AS s, topic AS t, question AS q";
    if(($statPriority == "system") || ($statPriority == "user")){
        $query .= ", statistics_item AS si ";
    }
    if(($statPriority == "bothSystem") || ($statPriority == "bothUser")){
        $query .= " LEFT JOIN statistics_item AS si ON ";
        $query .= "(q.question_id=si.question_id AND si.exam_id='0' AND si.generation='system' ";
        $query .= " LEFT JOIN statistics_item AS si ON ";
        $query .= "(q.question_id=si.question_id AND si.exam_id='0' AND si.generation='user' ";
    }
    $query .= " WHERE q.topic_id=t.topic_id AND s.subject_id=t.subject_id AND s.subject_id=' $examSubject' AND t.deptNum=' $deptNum' ";
    if(($statPriority == "system") || ($statPriority == "user")){
        $query .= "AND si.question_id=q.question_id AND si.exam_id='0' AND si.generation=' $statPriority' ";
    }
    if(($statPriority == "bothSystem") || ($statPriority == "bothUser")){
        $query .= "AND (NOT (si.generation='null' AND si.generation='null')) ";
    }
    if($sessionId == "on"){
        if(($statPriority == "system") || ($statPriority == "user")){
            $query .= "AND (si.itemDifficulty >= 0 && si.itemDifficulty <= 100) ";
            $g = "si";
            eval('$query .= "AND '. $g . 'itemDifficultySQ[' . $g . 'itemDifficulty]. ' . "';');
        }
        if($statPriority == "bothSystem"){
            $query .= "AND IF(si.itemDifficulty IS NOT NULL, ";
            $g = "si s";
            eval('$query .= "( ' . $g . 'itemDifficultySQ[' . $g . 'itemDifficulty]. ' && ( ' . $g . 'itemDifficulty >= 0 && ' . $g . 'itemDifficulty <= 100)), ' . "';");
            $g = "si u";
            eval('$query .= "( ' . $g . 'itemDifficultySQ[' . $g . 'itemDifficulty]. ' && ( ' . $g . 'itemDifficulty >= 0 && ' . $g . 'itemDifficulty <= 100))';");
        }
        if($statPriority == "bothUser"){
            $query .= "AND IF(si.itemDifficulty IS NOT NULL, ";
            $g = "si u";
            eval('$query .= "( ' . $g . 'itemDifficultySQ[' . $g . 'itemDifficulty]. ' && ( ' . $g . 'itemDifficulty >= 0 && ' . $g . 'itemDifficulty <= 100)), ' . "';");
            $g = "si s";
            eval('$query .= "( ' . $g . 'itemDifficultySQ[' . $g . 'itemDifficulty]. ' && ( ' . $g . 'itemDifficulty >= 0 && ' . $g . 'itemDifficulty <= 100))';");
        }
        $query .= " ";
    }
    if($diC == "on"){
        if(($statPriority == "system") || ($statPriority == "user")){
            $query .= "AND (si.DI >= -1 && si.DI <= 1) ";
            $g = "si";
            eval('$query .= "AND '. $g . 'DI SQ[' . $g . 'DI]. ' . "';");
        }
        if($statPriority == "bothSystem"){
            $query .= "AND IF(si.DI IS NOT NULL, ";
            $g = "si s";
            eval('$query .= "( ' . $g . 'DI SQ[' . $g . 'DI]. ' && ( ' . $g . 'DI >= -1 && ' . $g . 'DI <= 1)), ' . "';");
            $g = "si u";
            eval('$query .= "( ' . $g . 'DI SQ[' . $g . 'DI]. ' && ( ' . $g . 'DI >= -1 && ' . $g . 'DI <= 1))';");
        }
        if($statPriority == "bothUser"){
            $query .= "AND IF(si.DI IS NOT NULL, ";
            $g = "si u";
            eval('$query .= "( ' . $g . 'DI SQ[' . $g . 'DI]. ' && ( ' . $g . 'DI >= -1 && ' . $g . 'DI <= 1)), ' . "';");
            $g = "si s";
            eval('$query .= "( ' . $g . 'DI SQ[' . $g . 'DI]. ' && ( ' . $g . 'DI >= -1 && ' . $g . 'DI <= 1))';");
        }
        $query .= " ";
    }
    if($pbc == "on"){
        if(($statPriority == "system") || ($statPriority == "user")){
            $query .= "AND (si.PBC >= -1 && si.PBC <= 1) ";
            $g = "si";
            eval('$query .= "AND '. $g . 'PBC SQ[' . $g . 'PBC]. ' . "';");
        }
        if($statPriority == "bothSystem"){
            $query .= "AND IF(si.PBC IS NOT NULL, ";
            $g = "si s";
            eval('$query .= "( ' . $g . 'PBC SQ[' . $g . 'PBC]. ' && ( ' . $g . 'PBC >= -1 && ' . $g . 'PBC <= 1)), ' . "';");
            $g = "si u";
            eval('$query .= "( ' . $g . 'PBC SQ[' . $g . 'PBC]. ' && ( ' . $g . 'PBC >= -1 && ' . $g . 'PBC <= 1))';");
        }
        if($statPriority == "bothUser"){
            $query .= "AND IF(si.PBC IS NOT NULL, ";
            $g = "si u";
            eval('$query .= "( ' . $g . 'PBC SQ[' . $g . 'PBC]. ' && ( ' . $g . 'PBC >= -1 && ' . $g . 'PBC <= 1)), ' . "';");
            $g = "si s";
            eval('$query .= "( ' . $g . 'PBC SQ[' . $g . 'PBC]. ' && ( ' . $g . 'PBC >= -1 && ' . $g . 'PBC <= 1))';");
        }
        $query .= " ";
    }
    $query .= "ORDER BY q.question_id ASC ";
    echo "<br>[ $query ]<br>";
}
$result = mysql_query($query);
$stfCount = 0;
$smcCount = 0;
$smtCount = 0;
while($myrow = mysql_fetch_row($result)){
    swi tch($myrow[1]){

```

```

        case 'true or false':
            $tfCount++;
            break;
        case 'multiple choice':
            $mcCount++;
            break;
        case 'matching type':
            $mtCount++;
            break;
        default:
            break;
    }
}
echo "<br><table border='1'>";
usingStatisticsFrequencyCheck($this)";
echo "<tr><td colspan='2' align='center'>GENERATOR</td></tr>";
echo "<tr><td align='center'>question type</td><td align='center'>frequency</td></tr>";
echo "<tr><td>true or false</td><td>";
echo "<select name='tfF'>";
for($i = 0; $i <= $tfCount; $i++){
    echo "<option value=' $i '>$i</option>";
}
echo "</select> of $tfCount";
echo "</td></tr>";
echo "<tr><td colspan='2' align='center'>";
echo "<select name='mcF'>";
for($i = 0; $i <= $mcCount; $i++){
    echo "<option value=' $i '>$i</option>";
}
echo "</select> of $mcCount";
echo "</td></tr>";
echo "<tr><td colspan='2' align='center'>";
echo "<select name='mtF'>";
for($i = 0; $i <= $mtCount; $i++){
    echo "<option value=' $i '>$i</option>";
}
echo "</select> of $mtCount";
echo "</td></tr>";
echo "<tr><td colspan='2' align='center'>";
echo "<input type='hidden' name='examSubject' value=' $examSubject' />";
echo "<input type='hidden' name='deptNum' value=' $deptNum' />";
echo "<input type='hidden' name='queryFromStat' value='\'' . str_replace('\"' . 'q.quesiton_id ASC' . ' . 'RAND()' . ' $query)' . '\\' />";
echo "<input type='submit' name='usingStatisticsFrequencySubmit' value='generate exam' /></td></tr>";
echo "</form>";
echo "</table>";
}
if($mode == "automated"){
    exam_Coverage();
}
}
else{
    //echo "<br>";
    echo "<table border='1'>";
    echo "<form name='subjectAndMode' method='post' action='?activeNav=$activeNav&activeTab=$activeTab' onSubmit='return
subjectAndModeSubmit($this)'>";
    echo "<tr><td>Select Subject</td><td>";
    echo "<select name='examSubject'>";
    echo "<option selected='selected' value=' Select'>Please Select</option>";
    connect_Db();
    $query = "SELECT subject_id, subjectName FROM subject ORDER BY subjectName ASC ";
    $result = mysql_query($query);
    while($myrow = mysql_fetch_row($result)){
        echo "<option>";
        if($myrow[0] == $subjCurrent){
            echo " selected='selected'";
        }
        echo " value=' $myrow[0]' label=' $myrow[1]'>$myrow[1]</option>";
    }
    echo "</select>";
    echo "</td></tr>";
    echo "<tr><td>Mode of Creation</td><td>";
    //echo "<input type='radio' name='mode' value='auto generate' />auto generate<br>";
    echo "<input type='radio' name='mode' value='automated' checked='checked' />automated<br>";
    echo "<input type='radio' name='mode' value='manual' checked='checked' />manual<br>";
    //echo "<input type='radio' name='mode' value='using statistics' />using statistics<br>";
    echo "</td></tr>";
    echo "<tr><td colspan='2' align='center'><input type='submit' name='action' value='create exam' /></td></tr>";
    echo "</form>";
    echo "</table>";
}
}
////////////////////////////////////
function exam_Coverage(){
    foreach($GLOBALS as $key=>$value){
        //print "\$GLOBALS[' $key' ] == $value<br>";
        if (ereg("[a-z]", $key[0], $array ) ){
            global $$key;
        }
    }
    connect_Db();
    $query = "SELECT subjectName FROM subject WHERE subject_id= $examSubject ";
    $result = mysql_query($query);
    $myrow = mysql_fetch_row($result);
    echo "Exam Subject: $myrow[0]<br>";
    //display select departmental form...
    echo "Choose departmental coverage:";
    $deptNumString = array ("first departmental", "second departmental", "third departmental", "fourth departmental", "fifth departmental",
    "sixth departmental", "seventh departmental");
    echo "<form name='chooseDept' method='post' action='?activeNav=$activeNav&activeTab=$activeTab&action=create
exam&examSubject=$examSubject'>";
    echo "<input type='hidden' name='mode' value=' $mode' />";
    echo "<input type='hidden' name='examSubject' value=' $examSubject' />";
    echo "<select name='deptCurrent'>";
    if($deptCurrent == ""){
        echo "<option selected='selected' value=' ' >please select the departmental coverage</option>";
    }
    for($i = 0; $i < count($deptNumString); $i++){
        if($deptNumString[$i] == $deptCurrent){
            echo "<option selected='selected' value=' $deptNumString[$i]'>$deptNumString[$i]</option>";
        }
        else{
            echo "<option value=' $deptNumString[$i]'>$deptNumString[$i]</option>";
        }
    }
    echo "</select><input type='submit' name='submitDept' value=' go'>";
    echo "</form>";
    if($deptCurrent == ""){
        return false;
    }
}
//display filters...
$definedDifficultyArray = array('very easy', 'easy', 'medium', 'hard', 'very hard');
$questionTypeArray = array('true or false', 'multiple choice', 'matching type', 'essay', 'problem solving');
echo "<table width='100%'>";
echo "<form name='examCoverageForm' method='POST' action='?activeNav=Exam'>";
echo "<tr><td align='center'>Exam Coverage</td></tr>";
echo "</table>";
echo "<div id='automatedFiltersDiv' style='height:auto; width:100%; overflow:scroll;'>";
echo "<table id='automatedFiltersTable' border='1' width='100%'>";

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echo "<tr><td colspan='2' align='center'>topic</td>";
echo "<td colspan=2; align='center'>controls</td>";
echo "<td colspan='5; align='center'>filters</td></tr>";
echo "<tr><td align='center'>topic id</td><td align='center'>topic name</td>";
echo "<td align='center'>action</td>";
echo "<td align='center'>frequency</td>";
//echo "<td align='center'>go to</td>";
echo "<td align='center'>question type</td>";
echo "<td align='center'>difficultly(defined)</td>";
echo "<td align='center'>item difficulty</td>";
echo "<td align='center'>discrimination index</td>";
echo "<td align='center'>point biserial</td></tr>";
$query = "SELECT topic_id, topicName FROM topic WHERE subject_id='ExamSubject' AND deptNum='DeptCurrent' ";
$result = mysql_query($query);
$si = array('id', 'pb');
$d0ptnArray = array('val > 90) very easy', '(25 <= val <= 90) acceptable difficulty', '(val < 25) very hard');
$d1ptnArray = array('val > 0) positive discrimination', '(val = 0) zero discrimination', '(val < 0) negative discrimination');
$pb0ptnArray = array('val > .40) very good item', '(.30 <= val <=.39) good item', '(.20 <= val <=.29) fairly good item', '(.10 <= val <=.19) marginal item', '(val < .10) poor item');
$examCoverageCodeArray = explode(" ", $examCoverageCode);
if($examCoverageCodeFromSubwindow != ""){
    $tempArray = explode(" ", $examCoverageCodeFromSubwindow);
    $tempArray[0] = $tempArray[1];
    $examCoverageCodeFromSubwindow = "";
}
if($examCoverageCodeFromSubwindowDelete != ""){
    unset($examCoverageCodeFromSubwindowDelete);
}
while($myrow = mysql_fetch_row($result)){
    //get the codes for the current topicid
    for($si = 0; $si < count($examCoverageCodeArray); $si++){
        $examCoverageCodeTemp = explode(" ", $examCoverageCodeArray[$si]);
        if($examCoverageCodeTemp[1] == $myrow[0]){
            $currentFilterCodeArray[] = $examCoverageCodeArray[$si];
        }
        unset($examCoverageCodeTemp);
    }
    if(count($currentFilterCodeArray) > 0){
        echo "<tr><td align='center' rowspan=' ". count($currentFilterCodeArray). "'>$myrow[0]</td>";
        echo "<td rowspan=' ". count($currentFilterCodeArray). "' width='150px'>$myrow[1]</td>";
        for($si = 0; $si < count($currentFilterCodeArray); $si++){
            $seccArray = explode(" ", $currentFilterCodeArray[$si]);
            if($si != 0){
                echo "<tr>";
            }
            echo "<td align='center'>";
            echo "<a href='javascript:void manageCoverageFilter(\"$currentFilterCodeArray[$si]\", \"delete\")' style='color:blue;text-decoration:none;'>delete</a>";
            echo "</td>";

            if(($seccArray[4] != "x") || ($seccArray[5] != "x") || ($seccArray[6] != "x")){
                $queryA = "SELECT COUNT(DISTINCT(q.question_id)) FROM question AS q, statistics_item AS s WHERE q.questionType=' ". $questionTypeArray[$seccArray[2]]. "' AND q.topic_id=' $seccArray[1]' AND q.question_id=s.question_id AND s.generation='system' ";
                if($seccArray[4] != "x"){
                    $queryA .= "AND ". $idSQ[$seccArray[4]]. " ";
                }
                if($seccArray[5] != "x"){
                    $queryA .= "AND ". $diSQ[$seccArray[5]]. " ";
                }
                if($seccArray[6] != "x"){
                    $queryA .= "AND ". $pbSQ[$seccArray[6]]. " ";
                }
            }
            else{
                $queryA = "SELECT COUNT(DISTINCT(q.question_id)) FROM question AS q WHERE q.questionType=' ". $questionTypeArray[$seccArray[2]]. "' AND q.topic_id=' $seccArray[1]' ";
            }
            if($seccArray[3] != "x"){
                $queryA .= "AND q.difficulty=' ". $definedDifficultyArray[$seccArray[3]]. " ";
            }
        }
        $resultA = mysql_query($queryA);
        $myrowA = mysql_fetch_row($resultA);
        $textBoxName = "t_{$myrow[0]}_{$si}_{$si}";
        echo "<td align='center'>";
        //echo "<input type='text' name=' ". $currentFilterCodeArray[$si]. "' value=' ". $currentFilterCodeArray[$si]. "' size='2' style='text-align:right;border:0px; onchage='return checkAgainsFrequency(this)' />";
        echo "<select name=' ". $currentFilterCodeArray[$si]. "' onChange='return totalFrequencyForTopic(\"$myrow[0]\", \"_total\")'>";
        for($sj = 1; $sj <= $myrowA[0]; $sj++){
            if($sj == $currentFilterCodeArray[$si]){
                echo "<option value=' $j' selected=' selected'>$j</option>";
            }
            else{
                echo "<option value=' $j'>$j</option>";
            }
        }
        echo "</select>";
        echo "&nbsp;of&nbsp;&nbsp;$myrowA[0]</td>";

        echo "<td align='center'> ". $questionTypeArray[$seccArray[2]]. "</td>";
        echo "<td align='center'>";
        if($seccArray[3] == "x"){
            echo "any";
        }
        else{
            echo $definedDifficultyArray[$seccArray[3]];
        }
        echo "</td>";
        for($sj = 4; $sj < 7; $sj++){
            echo "<td align='center'>";
            if($seccArray[$sj] == "x"){
                echo "n/a";
            }
            else{
                switch($sj){
                    case 4:
                        echo $d0ptnArray[$seccArray[$sj]];
                        break;
                    case 5:
                        echo $d1ptnArray[$seccArray[$sj]];
                        break;
                    case 6:
                        echo $pb0ptnArray[$seccArray[$sj]];
                        break;
                    default:
                        break;
                }
            }
            echo "</td>";
        }
        echo "</tr>";
        unset($seccArray);
    }
}
else{
    echo "<tr><td align='center' rowspan=' ". count($currentFilterCodeArray). "'>$myrow[0]</td>";
    echo "<td rowspan=' ". count($currentFilterCodeArray). "' width='150px'>$myrow[1]</td>";
    echo "<td colspan=7; align='center'>no records</td></tr>";
}

```

```

    }
    echo "<tr><td colspan='2' align='right'>&nbsp;</td>";
    echo "<td align='right'>total</td>";
    echo "<td align='center'><input type='text' name='t_$myrow[0]'. '_total' size='4' style='border: 0px; background-color: transparent;
readonly='readonly' /></td>";
    echo "<td colspan='5' align='center'>";
    echo "<a href='javascript:void manageCoverageFilter('\$t_$myrow[0]'. '_x_x_x_x_x', '\$add')' style='color: blue; text-decoration: none;'>add
filter</a>";
    echo "</td></tr>";
    echo "<tr><td colspan='10'>&nbsp;</td></tr>";
    unset(\$currentFilterCodeArray);
    }
    echo "<input type='hidden' name='examSubject' value='\$examSubject' />";
    echo "<input type='hidden' name='deptCurrent' value='\$deptCurrent' />";
    echo "<input type='hidden' name='examCoverageCodeFromSubwindow' value=''; />";
    echo "<input type='hidden' name='examCoverageCodeFromSubwindowDelete' value=''; />";
    echo "<input type='hidden' name='examCoverageCode' value='', implode(' ', \$examCoverageCodeArray) . ' ' />";
    echo "<input type='hidden' name='action' value='create exam' />";
    echo "<input type='hidden' name='mode' value='\$mode' />";
    echo "<input type='hidden' name='activeTab' value='\$activeTab' />";
    echo "<input type='hidden' name='examCoverageFormSubmit' value='generate exam' />";
    echo "<tr><td colspan='10' align='center'><input type='button' name='examCoverageFormButton' value='generate exam' onClick='return
examCoverageFormSubmit(\$this.form)' /></td></tr>";
    echo "</form>";
    echo "</table>";
    echo "</div>";
}
////////////////////////////////////
function exam_Coverage_Details(){
    foreach(\$GLOBALS as \$key=>\$value){
        //print "\$GLOBALS['\$key'] == \$value<br>";
        if (ereg("[a-z]", \$key[0], \$array )){
            global \$\$key;
        }
    }
    connect_Db();
    echo "<table width='100%'>";
    echo "<tr><td align='center'>Exam Coverage Details";
    echo "&nbsp;<input type='button' id='\$examCoverageDisplayButton'
onClick='\$toggleExamCoverageDisplay('automatedFiltersDiv', 'examCoverageDisplayButton')' value='show'>";
    echo "</td></tr>";
    echo "</table>";
    echo "<div id='automatedFiltersDiv' style='height:auto; width:100%; overflow:scroll; display:none;'>";
    echo "<table id='examCoverageTable' border='1' width='100%'>";
    \$examCoverageTableColumnName = array('question id', 'topic', 'question type', 'difficulty', 'item difficulty', 'discription index', 'point
bi serial');
    echo "<tr>";
    foreach(\$examCoverageTableColumnName AS \$examCoverageTableColumnNameEl){
        echo "<td align='center'> \$examCoverageTableColumnNameEl</td>";
    }
    echo "</tr>";
    \$query = "SELECT q.question_id, t.topicName, q.questionType, q.difficulty, si.itemDifficulty, si.DI, si.PBC FROM topic AS t, question AS q,
exam_item AS ei, exam AS e LEFT JOIN statistics_item AS si ON (si.exam_id=e.id AND si.question_id=q.question_id) WHERE e.exam_id='\$examCurrent'
AND q.topic_id=t.topic_id AND ei.exam_id=e.exam_id AND ei.question_id=q.question_id ORDER BY t.topic_id ASC, q.questionType ASC, q.difficulty
ASC ";
    \$result = mysql_query(\$query);
    if(mysql_num_rows(\$result) > 0){
        while(\$myrow = mysql_fetch_row(\$result)){
            echo "<tr>";
            echo "<td align='center'><a href='javascript:void goToAnchor('\$myrow[0]')' style='color: blue; text-
decoration: none;'>\$myrow[0]</a></td>";
            echo "<td>\$myrow[1]</td>";
            echo "<td>\$myrow[2]</td>";
            echo "<td>\$myrow[3]</td>";
            if(\$myrow[4] == ""){
                echo "<td>&nbsp;</td>";
            }
            else{
                echo "<td>\$myrow[4]</td>";
            }
            if(\$myrow[5] == ""){
                echo "<td>&nbsp;</td>";
            }
            else{
                echo "<td>\$myrow[5]</td>";
            }
            if(\$myrow[6] == ""){
                echo "<td>&nbsp;</td>";
            }
            else{
                echo "<td>\$myrow[6]</td>";
            }
            echo "</tr>";
        }
    }
    echo "<tr><td colspan=''. count(\$examCoverageTableColumnName). ' ' align='center'>no records</td></tr>";
    echo "</table>";
    echo "</div>";
}
////////////////////////////////////
function strToPic(\$textToPic){
    \$textToPicArray = split("<br>", \$textToPic);
    foreach(\$textToPicArray AS \$textToPicArrayEl){
        \$textToPicFinal .= "<img src=' /toes/director/strToPic.php?textToPic=\$textToPicArrayEl&font_size=2' />";
    }
    return \$textToPicFinal;
}
////////////////////////////////////
function add_Generated_Exam(){
    foreach(\$GLOBALS as \$key=>\$value){
        //print "\$GLOBALS['\$key'] == \$value<br>";
        if (ereg("[a-z]", \$key[0], \$array )){
            global \$\$key;
        }
    }
    \$examCurrent = get_Next_Id('exam_id', 'exam');
    \$examDateCreated = date("Y-m-d H:i:s", time());
    \$query = "SELECT subjectName FROM subject WHERE subject_id='\$examSubject' ";
    \$result = mysql_query(\$query);
    \$myrow = mysql_fetch_row(\$result);
    \$subjName = \$myrow[0];
    \$examDescription = "\$examDeptCurrent exam for \$subjName";
    connect_Db();
    \$query = "INSERT INTO exam (exam_id, subject_id, dateCreated, deptNum, description) VALUES ('\$examCurrent', '\$examSubject',
'\$examDateCreated', '\$examDeptCurrent', '\$examDescription') ";
    \$result = mysql_query(\$query);
    \$qtyTfArray = explode(" ", \$qtyTfStr);
    \$qtyMcArray = explode(" ", \$qtyMcStr);
    \$qtyMtArray = explode(" ", \$qtyMtStr);
    \$questionDifficultyArray = array('very easy', 'easy', 'medium', 'hard', 'very hard');
    //autoadd true or false questions
    for(\$i = 0; \$i < count(\$questionDifficultyArray); \$i++){
        if(\$qtyTfArray[\$i] > 0){
            \$query = "SELECT question.question_id FROM question, subject, topic WHERE question.topic_id=topic.topic_id AND
subject.subject_id=topic.subject_id AND subject.subject_id='\$examSubject' AND topic.deptNum='\$examDeptCurrent' AND question.questionType='true
or false' AND question.difficulty=\$questionDifficultyArray[\$i]' LIMIT \$qtyTfArray[\$i] ";

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        if(($tempArray[4] != "x") || ($tempArray[5] != "x") || ($tempArray[6] != "x")){
            $queryA = "SELECT q.question_id, q.questionType, q.answer FROM question AS q, statistics_item AS s WHERE
q.questionType='". $questionTypeArray[$tempArray[2]]. "' AND q.topc_id=' $tempArray[1]' AND q.question_id=s.question_id AND s.generation='system'";
            if($tempArray[4] != "x"){
                $queryA .= "AND ". $idSQ[$tempArray[4]]. " ";
            }
            if($tempArray[5] != "x"){
                $queryA .= "AND ". $diSQ[$tempArray[5]]. " ";
            }
            if($tempArray[6] != "x"){
                $queryA .= "AND ". $pbSQ[$tempArray[6]]. " ";
            }
        }
        else{
            $queryA = "SELECT q.question_id, q.questionType, q.answer FROM question AS q WHERE
q.questionType='". $questionTypeArray[$tempArray[2]]. "' AND q.topc_id=' $tempArray[1]' ";
            if($tempArray[3] != "x"){
                $queryA .= "AND q.dfficultty='". $defnedDfficulttyArray[$tempArray[3]]. "' ";
            }
            $queryA .= "ORDER BY RAND() ";
            $queryA .= "LIMIT $value ";
            //echo "<br>[$queryA]<br>";
            $resultA = mysql_query($queryA);
            while($myrowA = mysql_fetch_row($resultA)){
                if($myrowA[1] == "matching type"){
                    $tempAnswerArray = explode(" ", $myrowA[2]);
                    $queryB = "INSERT INTO exam_item (exam_id, question_id, itemStatistic, pointAssigned) VALUES ('$examCurrent', '$myrowA[0]', '$key',
'". count($tempAnswerArray). "') ";
                }
                else{
                    $queryB = "INSERT INTO exam_item (exam_id, question_id, itemStatistic) VALUES ('$examCurrent', '$myrowA[0]', '$key') ";
                }
                $resultB = mysql_query($queryB);
            }
        }
        $addExamItem = "switch to add by question id";
        $examEditFromBrowse = $examCurrent;
        echo "message: now displaying the auto generated exam.<br><br>";
    }
    //////////////////////////////////////
    function edit_exam(){
        foreach($GLOBALS as $key=>$value){
            //print_r($GLOBALS["$key"] == $value<br>";
            if (ereg("[a-z]", $key[0], $array) ){
                global $$key;
            }
        }
        //if user selects manual creation of the exam
        if(($action == 'create exam') && ($mode == 'manual')){
            connect_db();
            $nextId = get_next_id('exam_id', 'exam');
            $examCurrent = $nextId;
            $examDateCreated = date("Y-m-d H:i:s", time());
            $query = "INSERT INTO exam (exam_id, subject_id, dateCreated, deptNum) VALUES ('$nextId', '$examSubject', '$examDateCreated',
'$examDeptCurrent') ";
            $result = mysql_query($query);
            //get the subject name...
            $query = "SELECT subjectName FROM subject WHERE subject_id=' $examSubject' ";
            $result = mysql_query($query);
            $myrow = mysql_fetch_row($result);
            $subjName = $myrow[0];
        }
        //if update the exam details...
        if($examDetails == 'update'){
            connect_db();
            $query = "UPDATE exam SET description=' $examDescription', author=' $examAuthor', allottedTime=' $examAllottedTime' WHERE exam_id =
'$examCurrent' ";
            $result = mysql_query($query);
            $message = "message: Exam details was updated successfully<br><br>";
        }
        //if add question...
        if(($addExamItem == 'add') || ($actionAddRemoveExamItem == 'add this question')){
            if($actionAddRemoveExamItem == 'add this question'){
                $questionIdToAdd = $examItemToAddOrRemove;
            }
            //check if question id is from the same subject...
            connect_db();
            $query = "SELECT subject_id FROM exam WHERE exam_id=' $examCurrent' ";
            $result = mysql_query($query);
            $myrow = mysql_fetch_row($result);
            $subjectOfExam = $myrow[0];
            $query = "SELECT topc.subject_id FROM question, topc WHERE question.question_id=' $questionIdToAdd' AND question.topc_id=topc.topc_id
";
            $result = mysql_query($query);
            $myrow = mysql_fetch_row($result);
            $subjectOfQuestion = $myrow[0];
            $query = "SELECT * FROM exam_item WHERE exam_id=' $examCurrent' AND question_id=' $questionIdToAdd' ";
            $result = mysql_query($query);
            $questionIdToAddExists = mysql_num_rows($result);
            if(($subjectOfExam == $subjectOfQuestion) && ($questionIdToAddExists == 0)){
                $query = "INSERT INTO exam_item (exam_id, question_id) VALUES ('$examCurrent', '$questionIdToAdd') ";
                $result = mysql_query($query);
                $message = "message: question [$questionIdToAdd] has been added successfully<br><br>";
                //assign pointAssigned of 'matching type' questions to count($answerArray)
                $query = "SELECT questionType, answer FROM question WHERE question_id=' $questionIdToAdd' ";
                $result = mysql_query($query);
                $myrow = mysql_fetch_row($result);
                if($myrow[0] == "matching type"){
                    $tempArray = explode(" ", $myrow[1]);
                    $query = "UPDATE exam_item SET pointAssigned='". count($tempArray). "' WHERE exam_id=' $examCurrent' AND question_id=' $questionIdToAdd' ";
                    $result = mysql_query($query);
                }
            }
            else{
                if($questionIdToAddExists != 0){
                    $message = "error: question [$questionIdToAdd] is already in the list<br><br>";
                }
                else{
                    $message = "error: question [$questionIdToAdd] belongs to a different subject or possibly does not exist<br><br>";
                }
            }
        }
        //if remove question item...
        if(($removeExamItem == 'remove') || ($actionAddRemoveExamItem == 'remove this question')){
            if($actionAddRemoveExamItem == 'remove this question'){
                $questionIdToDelete = $examItemToAddOrRemove;
            }
            connect_db();
            $query = "DELETE FROM exam_item WHERE exam_id=' $examCurrent' AND question_id=' $questionIdToDelete' ";
            $result = mysql_query($query);
            $message = "message: Question [$questionIdToDelete] has been successfully removed from this exam.<br><br>";
        }
        //display any message here...
        if(isset($message)){
            echo "$message<br><br>";
            unset($message);
        }
    }
}

```



```

echo "</div>";
echo "<span id='\$spanQuestion' style='display: inline-block; border: 1px solid black; padding: 5px; width: 100%; text-align: center; font-weight: bold; color: blue; font-size: 1.2em; margin-bottom: 10px;'>";
echo "<table border='1' class='questionTable'>";
echo "<thead>";
echo "<tr>";
echo "<th colspan='1'>";
echo "<tr><td>Question Id:</td><td> \$records[0]<br></td></tr>";
echo "<tr><td>Subject Name:</td><td> \$records[1]<br></td></tr>";
echo "<tr><td>Topic Name:</td><td> \$records[2]<br></td></tr>";
echo "<tr><td>Question Type:</td><td> \$records[3]<br></td></tr>";
echo "<tr><td>Author:</td><td> \$records[5]<br></td></tr>";
echo "<tr><td>Difficulty:</td><td> \$records[6]<br></td></tr>";
echo "<tr><td>Weight:</td><td>";
echo "<input type='hidden' name='wOld' value='\$records[7]' />";
echo "<input type='text' name='wNew' value='\$records[7]' maxLength='2' size='1' onChange='return saveExamItemWeight(this.form)' />";
echo "</td></tr>";
echo "</thead>";
echo "</table>";
echo "</tr><td class='questionTd' align='center'>";
include("records[4].html");
echo "</td></tr>";
echo "</table></span>";
echo "</form>";
}
echo "</td></tr>";
echo "</table>";
echo "</span>";
//table of multiple choice
$queryString = "SELECT question_id, subject.subjectName, topic.topicName, question.questionType, question.objects, question.author,
question.difficulty, exam_item.pointAssigned FROM exam_item, question, subject, topic WHERE question.topic_id=topic.topic_id AND
subject.subject_id=topic.subject_id AND exam_item.question_id=question.question_id AND question.questionType='multiple choice' AND
exam_item.exam_id='\$examCurrent' ORDER BY question_id ASC";
$resultQuery = mysql_query($queryString);
echo "<br><table id='questionTypeTab' width='100%'><tr><td align='left'>MULTIPLE CHOICE</td>";
echo "<td align='right'>";
if(mysql_num_rows($resultQuery) > 0){
echo "<input type='button' id='buttonMultipleChoiceA' value='minimize all' onClick='return maximizeMinimize(\"buttonMultipleChoiceA\",
removeExamQuestionForm_MC)' />";
echo "<input type='button' id='buttonMultipleChoiceC' value='showHide' spanMultipleChoice', 'buttonMultipleChoice', 'buttonMultipleChoice')\"
value='hide' />";
}
echo "</tr></table>";
echo "<span id='\$spanMultipleChoice' style='display: inline-block; border: 1px solid black; padding: 5px; width: 100%; text-align: center; font-weight: bold; color: blue; font-size: 1.2em; margin-bottom: 10px;'>";
echo "<table border='1' class='questionTypeTable' width='100%'><tr><td align='center'>";
if(mysql_num_rows($resultQuery) == 0){
echo "0 records";
}
while($records = mysql_fetch_row($resultQuery)){
$spanQuestion = "q_".$records[0];
$buttonQuestion = "b_".$records[0];
$postString = '';
$postString = '?';
foreach($GLOBALS as $key=>$value){
if (ereg("[a-z]", $key[0], $array)){
if(!($key == 'action') || ($key == 'mode') || ($key == 'addExamItem') || ($key == 'examEditFromBrowse')){
$postString = $postString."&".$key."&".$value."&";
}
}
}
echo "<form id='removeExamQuestionForm_MC' name='removeExamQuestionForm' method='post' action='\$postString'>";
echo "<div class='greenBarWithTitle'>";
echo "<a href='javascript:void open(\"http://localhost/toes/exam/questionnaire.php?operati onMode=previ ew
questionTypeTab' width='100%'><tr><td align='center'>";
echo "<input type='button' id='\$buttonQuestion' onClick='showHide(\"\$spanQuestion', \$buttonQuestion')\" value=' _ ' />";
echo "<input type='hidden' name='examCurrent' value='\$examCurrent' />";
echo "<input type='hidden' name='subjName' value='\$subjName' />";
echo "<input type='hidden' name='questionToDelete' value='\$records[0]' />";
echo "<input type='submit' name='removeExamItem' value='remove' />";
echo "</div>";
echo "<span id='\$spanQuestion' style='display: inline-block; border: 1px solid black; padding: 5px; width: 100%; text-align: center; font-weight: bold; color: blue; font-size: 1.2em; margin-bottom: 10px;'>";
echo "<table border='1' class='questionTableResult'>";
echo "<thead>";
echo "<tr>";
echo "<th colspan='1'>";
echo "<tr><td>Question Id:</td><td> \$records[0]<br></td></tr>";
echo "<tr><td>Subject Name:</td><td> \$records[1]<br></td></tr>";
echo "<tr><td>Topic Name:</td><td> \$records[2]<br></td></tr>";
echo "<tr><td>Question Type:</td><td> \$records[3]<br></td></tr>";
echo "<tr><td>Author:</td><td> \$records[5]<br></td></tr>";
echo "<tr><td>Difficulty:</td><td> \$records[6]<br></td></tr>";
echo "<tr><td>Weight:</td><td>";
echo "<input type='hidden' name='wOld' value='\$records[7]' />";
echo "<input type='text' name='wNew' value='\$records[7]' maxLength='2' size='1' onChange='return saveExamItemWeight(this.form)' />";
echo "</td></tr>";
echo "</thead>";
echo "</table>";
echo "</tr><td class='questionTd' align='center'>";
include("records[4].html");
echo "</td></tr>";
echo "</table></span>";
echo "</form>";
}
echo "</td></tr>";
echo "</table>";
echo "</span>";
//table of matching type questions
$queryString = "SELECT question_id, subject.subjectName, topic.topicName, question.questionType, question.objects, question.author,
question.difficulty, exam_item.pointAssigned FROM exam_item, question, subject, topic WHERE question.topic_id=topic.topic_id AND
subject.subject_id=topic.subject_id AND exam_item.question_id=question.question_id AND question.questionType='matching type' AND
exam_item.exam_id='\$examCurrent' ORDER BY question_id ASC";
$resultQuery = mysql_query($queryString);
echo "<br><table id='questionTypeTab' width='100%'><tr><td align='left'>MATCHING TYPE</td>";
echo "<td align='right'>";
if(mysql_num_rows($resultQuery) > 0){
echo "<input type='button' id='buttonMatchingTypeA' value='minimize all' onClick='return maximizeMinimize(\"buttonMatchingTypeA\",
removeExamQuestionForm_MT') />";
echo "<input type='button' id='buttonMatchingTypeC' value='showHide' spanMatchingType', 'buttonMatchingType', 'buttonMatchingType')\"
value='hide' />";
}
echo "</td></tr></table>";
echo "<span id='\$spanMatchingType' style='display: inline-block; border: 1px solid black; padding: 5px; width: 100%; text-align: center; font-weight: bold; color: blue; font-size: 1.2em; margin-bottom: 10px;'>";
echo "<table border='1' class='questionTypeTable' width='100%'><tr><td align='center'>";
if(mysql_num_rows($resultQuery) == 0){
echo "0 records";
}
while($records = mysql_fetch_row($resultQuery)){
$spanQuestion = "q_".$records[0];
$buttonQuestion = "b_".$records[0];
$postString = '';
$postString = '?';
foreach($GLOBALS as $key=>$value){
if (ereg("[a-z]", $key[0], $array)){
if(!($key == 'action') || ($key == 'mode') || ($key == 'addExamItem') || ($key == 'examEditFromBrowse')){
$postString = $postString."&".$key."&".$value."&";
}
}
}
}

```

```

    }
    echo "<form id='removeExamQuestionForm_MT' name='removeExamQuestionForm' method='post' action='\$postString' >";
    echo "<div class='greenBarWithMinMaxDel' >";
    echo "    <a href='javascrip t: void open(\"http://local host/toes/exam/questionnaire.php?operati onMode=previ ew
questi onquesti onIdToDisplay=\$records[0]\", \"\", \"full screen, scroll bars\"); ><font color='blue'>PREVIEW</font></a>&nbsp;";
    echo "    <input type='button' id='show' sbuttonQuestion' onclick='showHide(' \$spanQuestion', ' \$buttonQuestion')\" \>";
    echo "    <input type='hidden' name='examCurrent' value='\$examCurrent' />";
    echo "    <input type='hidden' name='subj Name' value='\$subj Name' />";
    echo "    <input type='hidden' name='questi onIdToDelete' value='\$records[0]' />";
    echo "    <input type='submit' name='removeExamItem' value='remove' >";
    echo "</div>";
    echo "<span id='\$spanQuestion' style='display: none' >";
    echo "<table border='1' class='questi onTableResult' >";
    echo "<tr><td>";
    echo "    <a id='a_ \$records[0]' >";
    echo "<table class='questi onInfo' >";
    echo "<tr><td>Question Id:</td><td> \$records[0]<br></td></tr>";
    echo "<tr><td>Subject Name:</td><td> \$records[1]<br></td></tr>";
    echo "<tr><td>Topic Name:</td><td> \$records[2]<br></td></tr>";
    echo "<tr><td>Question Type:</td><td> \$records[3]<br></td></tr>";
    echo "<tr><td>Author:</td><td> \$records[5]<br></td></tr>";
    echo "<tr><td>Difficulty:</td><td> \$records[6]<br></td></tr>";
    echo "<tr><td>Weight:</td><td>";
    echo "    <input type='hidden' name='wOld' value='\$records[7]' />";
    echo "    <input type='text' name='wNew' value='\$records[7]' maxLength='2' size='1' onChange='return saveExamItemWeight(this. form)' />";
    echo "</td></tr>";
    echo "</table>";
    echo "</a>";
    echo "</td></tr>";
    echo "<tr><td class='questi onTd' align='center' >";
    include(" \$records[4]. html");
    echo "</td></tr>";
    echo "</table></span>";
    echo "</form>";
}
echo "</td></tr>";
echo "</table>";
echo "</span>";
echo "<br>";
//echo "<br><hr width='100%' size='1' align='left' color='#000000' />";
}
////////////////////////////////////
functi on questi on_Query_Admin() {
    foreach(\$GLOBALS as \$key=> \$value) {
        //print "\$GLOBALS['\$key'] = \$value<br>";
        if (ereg("[a-z]", \$key[0], \$array)) {
            //print "\$GLOBALS['\$key'] = \$value<br>";
            global \$\$key;
        }
        else {
        }
    }
    if(\$redirectedFromEdit == 'yes') {
        echo "Please choose the question to be edited<br>";
    }
    if(\$questionToDelete != '') {
        connect_Db();
        \$query = "SELECT objects FROM questi on WHERE questi on_id=' \$questionToDelete' ";
        \$result = mysql_query(\$query);
        \$myrow = mysql_fetch_row(\$result);
        \$fileLink = \$myrow[0];
        unlink(\$fileLink. "doc");
        unlink(\$fileLink. "html");
        \$fileLink = \$fileLink. "files";
        if(is_dir(\$fileLink)) {
            \$dh = opendir(\$fileLink);
            while(gettype(\$file = readdir(\$dh)) != boolean) {
                if(is_file(\$fileLink. "\$file")) {
                    //echo "\$file";
                    unlink(\$fileLink. "\$file");
                }
            }
            closedir(\$dh);
            rmdir(\$fileLink);
        }
        //delete the linked multimedia files...
        \$query = "SELECT src FROM file WHERE questi on_id=' \$questionToDelete' ";
        \$result = mysql_query(\$query);
        while(\$myrow = mysql_fetch_row(\$result)) {
            unlink(\$myrow[0]);
        }
        \$query = "DELETE FROM file WHERE questi on_id=' \$questionToDelete' ";
        \$result = mysql_query(\$query);
        \$query = "DELETE FROM questi on WHERE questi on_id=' \$questionToDelete' ";
        \$result = mysql_query(\$query);
        echo "Question id: \$questionToDelete has been deleted<br>";
    }
    //display the query filters...
    //echo "Please use the following filters:";
    echo "<table border='1' >";
    echo "<form name='questi onQuery' action='?acti veNav=&acti veNav=&acti veTab=&acti veTab' method='POST' >";
    echo "    <input type='hidden' name='examCurrent' value='\$examCurrent' />";
    echo "    <input type='hidden' name='subj Name' value='\$subj Name' />";
    echo "    <input type='hidden' name='examDescription' value='\$examDescription' />";
    echo "    <input type='hidden' name='examAuthor' value='\$examAuthor' />";
    echo "    <input type='hidden' name='examAllottedTime' value='\$examAllottedTime' />";
    echo "    <input type='hidden' name='examDateCreated' value='\$examDateCreated' />";
    echo "    <input type='hidden' name='addExamItem' value='\$addExamItem' />";
    echo "    <input type='hidden' name='examDeptCurrent' value='\$examDeptCurrent' />";
    echo "<tr><td colspan='2' align='center' >Question Search Filters</td></tr>";
    echo "<tr><td>Subject</td><td>";
    connect_Db();
    \$query = "SELECT subject_id FROM exam WHERE exam_id=' \$examCurrent'";
    \$result = mysql_query(\$query);
    \$myrow = mysql_fetch_row(\$result);
    \$qSubject = \$myrow[0];
    echo "    <input type='hidden' name='qSubject' value='\$qSubject' >";
    echo "    <input type='text' name='sSubject' />";
    echo "</td></tr>";
    echo "<tr><td>Topic</td><td>";
    echo "    <input type='hidden' name='hTopic' value='\$qTopic' >";
    \$query = "SELECT topic_id, topicName, CASE deptNum WHEN 'first departmental' THEN 1 WHEN 'second departmental' THEN 2 WHEN 'third
departmental' THEN 3 WHEN 'fourth departmental' THEN 4 WHEN 'fifth departmental' THEN 5 WHEN 'sixth departmental' THEN 6 WHEN 'seventh
departmental' THEN 7 END AS deptNumnt FROM topic WHERE subject_id=' \$qSubject' ORDER BY deptNumnt ASC, topicName ASC";
    //\$query = "SELECT topic_id, topicName FROM topic WHERE subject_id=' \$qSubject' ";
    \$result = mysql_query(\$query);
    echo "    <select name='qTopic' >";
    if(\$qSubject == 'any') {
        \$qTopic = 'any';
        echo "    <option value='any'>any</option>";
    }
    else if(mysql_num_rows(\$result) == 0) {
        \$filter = 'subject chosen has no topics';
        echo "    <option value='subject chosen has no topics'>subject chosen has no topics</option>";
    }
    else {

```

```

if($qTopic == 'subject chosen has no topics'){
    $qTopic = 'any';
}
echo "<option value='any'>any</option>";
while($myrow = mysql_fetch_row($result)){
    echo "<option value='\$myrow[0]'>[\$myrow[2]] \$myrow[1]</option>";
}
}
echo "</select>";
echo "</td></tr>";
echo "<tr><td>Question Type</td><td>";
echo "<input type='hidden' name='hQuestionType' value='\$qQuestionType'>";
echo "<select name='qQuestionType'>";
echo "<option value='any'>any</option>";
echo "<option value='multiple choice'>multiple choice</option>";
echo "<option value='true or false'>true or false</option>";
echo "<option value='matching type'>matching type</option>";
echo "</select>";
echo "</td></tr>";
echo "<tr><td>Difficulty</td><td>";
echo "<input type='hidden' name='hDifficulty' value='\$qDifficulty'>";
echo "<select name='qDifficulty'>";
echo "<option value='any'>any</option>";
echo "<option value='very easy'>very easy</option>";
echo "<option value='easy'>easy</option>";
echo "<option value='medium'>medium</option>";
echo "<option value='hard'>hard</option>";
echo "<option value='very hard'>very hard</option>";
echo "</select>";
echo "</td></tr>";
echo "<tr><td>Sorted By</td><td>";
echo "<input type='hidden' name='hSortedBy' value='\$qSortedBy'>";
echo "<select name='qSortedBy'>";
echo "<option value='Question Id'>Question Id</option>";
echo "<option value='Topic Name'>Topic Name</option>";
echo "<option value='Question Type'>Question Type</option>";
echo "<option value='Author'>Author</option>";
echo "<option value='Difficulty'>Difficulty</option>";
echo "</select>";
echo "</td></tr>";
echo "<tr><td colspan='2'>";
echo "<input type='hidden' name='hDirection' value='\$qDirection'>";
echo "<ascending<input type='radio' name='qDirection' value='ascending' checked='checked'>";
echo "<descending<input type='radio' name='qDirection' value='descending'>";
echo "</td></tr>";
echo "<tr><td>Display</td><td>";
echo "<input type='hidden' name='hNumResults' value='\$qNumResults'>";
echo "<select name='qNumResults'>";
echo "<option value='10'>10</option>";
echo "<option value='20'>20</option>";
echo "<option value='30'>30</option>";
echo "<option value='40'>40</option>";
echo "<option value='50'>50</option>";
echo "</select> per page";
echo "</td></tr>";
echo "<tr><td colspan='2' align='center'><input type='submit' name='filter' value='search'><button type='reset' name='reset' value='reset'>reset</button></td></tr>";
echo "</form>";
echo "</table>";

if($filter == 'search'){
    if(($qTopic == 'any') && ($qQuestionType == 'any') && ($qDifficulty == 'any')){
        $queryString = "SELECT question.question_id, subject.subjectName,
question.author, question.difficulty FROM question, subject,
subject.subject_id=topic.subject_id AND subject.subject_id='\$qSubject'";
    }
    else{
        $queryString = "SELECT question.question_id, subject.subjectName,
question.author, question.difficulty FROM question, subject,
subject.subject_id=topic.subject_id AND subject.subject_id='\$qSubject'";
        if(($qTopic != 'any') && ($qTopic != "")){
            $wherePart[] = "question.topic_id='\$qTopic'";
        }
        if(($qQuestionType != 'any') && ($qQuestionType != "")){
            $wherePart[] = "question.questionType='\$qQuestionType'";
        }
        if(($qDifficulty != 'any') && ($qDifficulty != "")){
            $wherePart[] = "question.difficulty='\$qDifficulty'";
        }
        for($i = 0; $i < count($wherePart); $i++){
            $queryString = $queryString . " AND $wherePart[$i]";
        }
    }
}
switch($qSortedBy){
    case 'Question Id':
        $queryString = $queryString . " ORDER BY question.question_id";
        break;
    case 'Topic Name':
        $queryString = $queryString . " ORDER BY topic.topicName";
        break;
    case 'Question Type':
        $queryString = $queryString . " ORDER BY question.questionType";
        break;
    case 'Author':
        $queryString = $queryString . " ORDER BY question.author";
        break;
    case 'Difficulty':
        $queryString = $queryString . " ORDER BY question.difficulty";
        break;
    default:
        break;
}
if($qDirection == 'ascending'){
    $queryString = $queryString . " ASC";
}
else{
    $queryString = $queryString . " DESC";
}
if($qTopic == 'subject chosen has no topics'){
    $filter = 'subject chosen has no topics';
}
}

//echo "[\$queryString]<br>";
echo "<br><hr width='100%' size='1' align='left' color='#008000' />";
//query the query string
if($filter == 'subject chosen has no topics'){
    echo "subject chosen has no topics";
}
else if($filter == 'search'){
    //determine how many records...
    $resultQuery = mysql_query($queryString);
    $num_records = mysql_num_rows($resultQuery);
    $display_number = $qNumResults;
    if ($num_records > $display_number) {
        $num_pages = ceil ($num_records/$display_number);
    } else {
        $num_pages = 1;
    }
}

```

```

//Determine where in the database to start returning results...
if (isset($_GET['s'])) {
    $start = $_GET['s'];
} else {
    $start = 0;
}
//retrieve the records applying LIMIT...
$queryString = $queryString . ' LIMIT ' . $start . ', ' . $displayNumber;
$resultQuery = mysql_query($queryString);

if(mysql_num_rows($resultQuery) == 0){
    echo "<center>0 results returned</center>";
} else{
    #008888 #FOFFF0#
    echo "<table border='0' bgcolor='#F1F8F1' width='100%' cellpadding='10px' align='center'>";
    if($num_records < (((($start/$displayNumber) + 1) * $displayNumber))){
        echo "<tr><td align='right'>Result ". ($start + 1). " - ". $num_records. " of about $num_records</td></tr>";
    }
    else{
        echo "<tr><td align='right'>Result ". ($start + 1). " - ". (((($start/$displayNumber) + 1) * $displayNumber). " of about $num_records</td></tr>";
    }
    echo "<tr><td align='center'>";

    while($records = mysql_fetch_row($resultQuery)){
        //display the greenbar plus the 'add this question' OR 'remove this question' plus other notifications...
        $queryForQuestionStatus = "SELECT * FROM exam_item WHERE exam_id=' $examCurrent' AND question_id=' $records[0]'";
        $resultQuestionStatus = mysql_query($queryForQuestionStatus);
        $questionStatus = mysql_num_rows($resultQuestionStatus);
        echo "<div class='greenBar'>";
        $postString = '?';
        foreach($GLOBALS as $key=>$value){
            if (ereg("[a-z]", $key[0], $array)) {
                if(!($key == 'action') || ($key == 'mode') || ($key == 'removeExamItem') || ($key == 'examEditFromBrowse') || ($key == 'queryString')){
                    $postString = $postString . $key . $value . "&";
                }
            }
        }
        $postString = $postString . "examItemToAddOrRemove=$records[0]";
        echo "<form name='addRemoveExamItem' action=' $postString' method='POST' >";
        if($questionStatus == 0){
            echo "<input type='submit' name='actionAddRemoveExamItem' value='add this question'>";
        }
        else{
            echo "<input type='submit' name='actionAddRemoveExamItem' value='remove this question'>";
        }
        $queryForQuestionStatus = "SELECT * FROM exam_question_topic WHERE question.topic_id=topic.topic_id AND exam.deptNum=topic.deptNum
AND question.question_id=' $records[0]' AND exam.exam_id=' $examCurrent'";
        $resultQuestionStatus = mysql_query($queryForQuestionStatus);
        $questionTopicNotMatched = mysql_num_rows($resultQuestionStatus);
        if($questionTopicNotMatched == 0){
            echo " Note: This question's topic is not covered in the $examDeptCurrent";
        }
        echo "</div>";

        echo "<table border='1' class='questionTableResult' >";
        echo "<tr><td>";
        echo "<table class='questionInfo'>";
        echo "<tr><td>Question Id:</td><td>$records[0]<br></td></tr>";
        echo "<tr><td>Subject Name:</td><td>$records[1]<br></td></tr>";
        echo "<tr><td>Topic Name:</td><td>$records[2]<br></td></tr>";
        echo "<tr><td>Question Type:</td><td>$records[3]<br></td></tr>";
        echo "<tr><td>Author:</td><td>$records[5]<br></td></tr>";
        echo "<tr><td>Difficulty:</td><td>$records[6]<br></td></tr>";
        echo "</table>";
        echo "</td></tr>";
        echo "<tr><td class='questionTd' align='center'>";
        include("$records[4].html");
        echo "</td></tr>";
        echo "</table>";
        echo "</form>";
        echo "<hr width='100%' size='1' align='left' color='#008000' />";
    } //end of while
    echo "</td></tr></table>";

    //make the links to other query pages...
    if ($num_pages > 1){
        echo "<center>Result Page: ";
        // Determine what page the script is on.
        $current_page = ($start/$displayNumber) + 1;
        // If it's not the first page, make a Previous button.
        if ($current_page != 1){
            $postString = '?';
            foreach($GLOBALS as $key=>$value){
                if (ereg("[a-z]", $key[0], $array)) {
                    $postString = $postString . $key . $value . "&";
                }
            }
            $sLink = $start - $displayNumber;
            $postString = $postString . "s=$sLink". "&np=$num_pages";
            echo "<a href=' $postString' >Previous</a> ";
        }
        // Make all the numbered pages.
        for ($i = 1; $i <= $num_pages; $i++){
            if ($i != $current_page){
                $postString = '?';
                foreach($GLOBALS as $key=>$value){
                    if (ereg("[a-z]", $key[0], $array)) {
                        $postString = $postString . $key . $value . "&";
                    }
                }
                $sLink = $displayNumber * ($i - 1);
                $postString = $postString . "s=$sLink". "&np=$num_pages";
                echo "<a href=' $postString' >$i</a> ";
            }
            else {
                echo $i . ' ';
            }
        }
        // If it's not the last page, make a Next button.
        if ($current_page != $num_pages){
            $postString = '?';
            foreach($GLOBALS as $key=>$value){
                if (ereg("[a-z]", $key[0], $array)) {
                    $postString = $postString . $key . $value . "&";
                }
            }
            $sLink = $start + $displayNumber;
            $postString = $postString . "s=$sLink". "&np=$num_pages";
            echo "<a href=' $postString' >Next</a> ";
        }
    }
}

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        echo "</center>";
    } //else part
}
echo "<br><hr width='100%' size='1' align='left' color='#008000' />";
}
////////////////////////////////////
function get_Exam_Info(){
    global $examEditFromBrowse;
    global $subjName;
    global $examCurrent;
    global $examDescription;
    global $examAuthor;
    global $examAllottedTime;
    global $examDateCreated;
    global $examDeptCurrent;
    $examCurrent = $examEditFromBrowse;

    connect_Db();
    $query = "SELECT * FROM exam, subject WHERE exam.subject_id=subject.subject_id AND exam.exam_id=$examCurrent";
    $result = mysql_query($query);
    $myrow = mysql_fetch_row($result);
    $subjName = $myrow[8];
    $examDescription = $myrow[2];
    $examAuthor = $myrow[3];
    $examAllottedTime = $myrow[4];
    $examDateCreated = $myrow[5];
    $examDeptCurrent = $myrow[6];
}
////////////////////////////////////
function exam_Query(){
    foreach($GLOBALS as $key=>$value){
        //print "\$GLOBALS['$key'] == $value<br>";
        if (ereg("[a-z]" . $key[0], $array)){
            //print "\$GLOBALS['$key'] == $value<br>";
            global $$key;
        }
    }
    else{
    }
    if($redirectedFromEdit == 'yes'){
        echo "Please choose the exam to be edited<br><br>";
    }
    if($redirectedFromExamSchedule == 'yes'){
        echo "Please choose the exam to be scheduled<br><br>";
    }
    //if examToDelete
    if(isset($questionToDelete)){
        //make sure no batch is created for this exam
        connect_Db();
        $query = "SELECT batch_id FROM batch WHERE exam_id=' $questionToDelete' ";
        $result = mysql_query($query);
        if(mysql_num_rows($result) > 0){
            echo "error: the exam identified by the exam_id '$questionToDelete' can't be deleted because a batch was already assigned for it.<br><br>";
        }
    }
    else{
        //delete exam items
        $query = "DELETE FROM exam_item WHERE exam_id=' $questionToDelete' ";
        $result = mysql_query($query);
        //delete exam
        $query = "DELETE FROM exam WHERE exam_id=' $questionToDelete' ";
        $result = mysql_query($query);
        echo "message: the exam with exam_id '$questionToDelete' was successfully deleted.<br><br>";
    }
}

//display the query filters...
echo " ";
echo "Please use the following filters:";
echo "<form name='examQuery' action='?activenav=$activenav&activeTab=$activeTab' method='POST' style='display:inline;' >";
echo "<table border='1' >";

echo "<tr><td colspan='2' align='center'>Exam Search Filters</td></tr>";

echo "<tr><td>Subject</td><td>";
connect_Db();
$query = "SELECT subject_id, subjectName FROM subject";
$result = mysql_query($query);
echo "<input type='hidden' name='examSubjectHidden' value=' $examSubject' >";
echo "<select name='examSubject' >";
echo "<option value='any'>any</option>";
echo "<option value='with the exact phrase'>with the exact phrase</option>";
echo "<option value='with all of the words'>with all of the words</option>";
echo "<option value='without the words'>without the words</option>";
echo "</select>";
echo "</td></tr><tr>";
echo "<input type='hidden' name='examDescriptionStringHidden' value=' $examDescriptionString' >";
if(($redirectedFromEdit == 'yes') || ($redirectedFromExamSchedule == 'yes')){
    echo "<td><input type='text' name='examDescriptionString' size='38' style='display:none' /></td>";
}
else{
    echo "<td><input type='text' name='examDescriptionString' size='38' /></td>";
}
echo "</tr>";

echo "<tr><td>Author</td><td>";
$query = "SELECT DISTINCT(author) FROM exam";
$result = mysql_query($query);
echo "<input type='hidden' name='examAuthorHidden' value=' $examAuthor' >";
echo "<select name='examAuthor' >";
echo "<option value='any'>any</option>";
while($myrow = mysql_fetch_row($result)){
    echo "<option value=' $myrow[0]'>$myrow[0]</option>";
}
echo "</select>";
echo "</td></tr>";

echo "<tr><td>Allotted Time</td><td>";
$query = "SELECT DISTINCT(allottedTime) FROM exam";
$result = mysql_query($query);
echo "<input type='hidden' name='examAllottedTimeHidden' value=' $examAllottedTime' >";

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echo "<select name='examAllottedTime'>";
echo "<option value='any'>any</option>";
while($myrow = mysql_fetch_row($result)){
    echo "<option value='>$myrow[0]</option>";
}
echo "</select>";
echo "</td></tr>";

echo "<tr><td>Departmental Number</td><td>";
$query = "SELECT DISTINCT(alottedTime) FROM exam";
$result = mysql_query($query);
echo "<input type='hidden' name='examDepartmentalNumberHidden' value='>$examDepartmentalNumber'>";
echo "<select name='examDepartmentalNumber'>";
echo "<option value='any'>any</option>";
$deptNumString = array ("first departmental", "second departmental", "third departmental", "fourth departmental", "fifth departmental",
"sixth departmental", "seventh departmental");
for($i = 0; $i < count($deptNumString); $i++){
    echo "<option value='>$deptNumString[$i]</option>";
}
echo "</select>";
echo "</td></tr>";

echo "<tr><td colspan='2'>";
echo "<input type='hidden' name='examDateWhicheverHidden' value='>$examDateWhichever'>";
echo "<input type='radio' name='examDateWhichever' value='Date Created' onClick='return examDateResetYear(this.form)' checked='checked'>Date
Created<br>";
echo "<input type='radio' name='examDateWhichever' value='Batch Scheduled' onClick='return examDateResetYear(this.form)'>Batch Scheduled";
echo "</td><td colspan='2'>";
echo "<tr>";
echo "<input type='hidden' name='examDateYearHidden' value='>$examDateYear'>";
echo "<select name='examDateYear'>";
echo "<option value='any'>any</option>";
if($examDateWhichever == "Date Created"){
    $query = "SELECT dateCreated FROM exam ORDER BY dateCreated ASC";
}
if($examDateWhichever == "Batch Scheduled"){
    $query = "SELECT batch.date FROM exam, batch WHERE exam.exam_id=batch.exam_id ORDER BY dateCreated ASC";
}
$result = mysql_query($query);
//examDateYearArray;
while($myrow = mysql_fetch_row($result)){
    $tempInTheArray = 0;
    foreach($examDateYearArray as $temp){
        if($temp == substr($myrow[0], 0, 4)){
            $tempInTheArray = 1;
            continue;
        }
    }
    if($tempInTheArray == 0){
        $examDateYearArray[] = substr($myrow[0], 0, 4);
    }
}
foreach($examDateYearArray as $temp){
    echo "<option value='>$temp'>$temp</option>";
}
echo "</select>";
echo "<tr>";
echo "<input type='hidden' name='examDateMonthHidden' value='>$examDateMonth'>";
echo "<select name='examDateMonth'>";
echo "<option value='any'>any</option>";
echo "<option value='01'>January</option>";
echo "<option value='02'>February</option>";
echo "<option value='03'>March</option>";
echo "<option value='04'>April</option>";
echo "<option value='05'>May</option>";
echo "<option value='06'>June</option>";
echo "<option value='07'>July</option>";
echo "<option value='08'>August</option>";
echo "<option value='09'>September</option>";
echo "<option value='10'>October</option>";
echo "<option value='11'>November</option>";
echo "<option value='12'>December</option>";
echo "</select>";
echo "</td></tr>";
echo "<tr></tr>";

echo "<tr><td colspan='2'>Directions</td><td>";
echo "<input type='hidden' name='examSortedByHidden' value='>$examSortedBy'>";
echo "<select name='examSortedBy'>";
echo "<option value='Exam Id'>Exam Id</option>";
echo "<option value='Subject Name'>Subject Name</option>";
echo "<option value='Description'>Description</option>";
echo "<option value='Author'>Author</option>";
echo "<option value='Allotted Time'>Allotted Time</option>";
echo "<option value='Date Created'>Date Created</option>";
echo "</select>";
echo "</td></tr>";

echo "<tr><td colspan='2'>Directions</td><td>";
echo "<input type='hidden' name='examDirectionHidden' value='>$examDirection'>";
echo "<input type='radio' name='examDirection' value='ascending' checked='checked'>ascending";
echo "</td></tr>";
echo "<td><input type='radio' name='examDirection' value='descending'>descending</td></tr>";

echo "<tr><td colspan='2'>Directions</td><td>";
echo "<input type='hidden' name='examNumResultsHidden' value='>$examNumResults'>";
echo "<select name='examNumResults'>";
echo "<option value='10'>10</option>";
echo "<option value='20'>20</option>";
echo "<option value='30'>30</option>";
echo "<option value='40'>40</option>";
echo "<option value='50'>50</option>";
echo "</select> per page";
echo "</td></tr>";
echo "<tr><td colspan='2' align='center'><input type='submit' name='filter' value='search'><button type='reset' name='reset'
value='reset'>reset</button></td></tr>";
echo "</form>";
echo "</table>";

//display the exam records...
if($filter == "search"){
    if(($examSubject == 'any')&&($examDescriptionMatch == 'any')&&($examAuthor == 'any')&&($examAllottedTime == 'any')&&($examDateYear ==
'any')&&($examDateMonth == 'any')){
        $queryString = "SELECT * FROM exam, subject, batch WHERE exam.subject_id=subject.subject_id";
    }
    else{
        if($examDateWhichever == "Batch Scheduled"){
            $queryString = "SELECT * FROM exam, subject, batch WHERE";
        }
        else{
            $queryString = "SELECT * FROM exam, subject WHERE";
        }
        $wherePart[] = "exam.subject_id=subject.subject_id";
        if(($examSubject != 'any')&&($examSubject != '')){
            $wherePart[] = "exam.subject_id='>$examSubject'";
        }
        if(($examDescriptionMatch != 'any')&&($examDescriptionMatch != '')){
            $examDescriptionStringArray = explode(" ", $examDescriptionString);
            switch($examDescriptionMatch){

```

```

case 'with at least one of the words':
    $finalString = "(";
    for($i = 0; $i < count($examDescriptionStringArray); $i++){
        if($i == count($examDescriptionStringArray) - 1){
            $finalString = $finalString."exam.description LIKE '%". trim($examDescriptionStringArray[$i]). "%" ";
        }
        else{
            $finalString = $finalString."exam.description LIKE '%". trim($examDescriptionStringArray[$i]). "%' OR ";
        }
    }
    $finalString = $finalString.")";
    break;
case 'with the exact phrase':
    $finalString = "exam.description LIKE '%". trim($examDescriptionStringArray[0]). "%" ";
    break;
case 'with all of the words':
    $finalString = "(";
    for($i = 0; $i < count($examDescriptionStringArray); $i++){
        if($i == count($examDescriptionStringArray) - 1){
            $finalString = $finalString."exam.description LIKE '%". trim($examDescriptionStringArray[$i]). "%" ";
        }
        else{
            $finalString = $finalString."exam.description LIKE '%". trim($examDescriptionStringArray[$i]). "%' AND ";
        }
    }
    $finalString = $finalString.")";
    break;
case 'without the words':
    $finalString = "(";
    for($i = 0; $i < count($examDescriptionStringArray); $i++){
        if($i == count($examDescriptionStringArray) - 1){
            $finalString = $finalString."exam.description NOT LIKE '%". trim($examDescriptionStringArray[$i]). "%" ";
        }
        else{
            $finalString = $finalString."exam.description NOT LIKE '%". trim($examDescriptionStringArray[$i]). "%' OR ";
        }
    }
    $finalString = $finalString.")";
    break;
default:
    break;
}
$wherePart[] = $finalString;
}
if(($examAuthor != 'any') && ($examAuthor != '')){
    $wherePart[] = "exam.author=' $examAuthor' ";
}
if(($examAllottedTime != 'any') && ($examAllottedTime != '')){
    $wherePart[] = "exam.allottedTime=' $examAllottedTime' ";
}
if(($examDepartmentalNumber != 'any') && ($examDepartmentalNumber != '')){
    $wherePart[] = "exam.deptNum=' $examDepartmentalNumber' ";
}
if(($examDateWhich == 'Date Created') || ($examDateWhich == 'Batch Schedule')) && (!($examDateYear == '____') && ($examDateMonth == '___')){
    if($examDateWhich == 'Date Created'){
        $wherePart[] = "(exam.dateCreated LIKE ' $examDateYear-$examDateMonth%' ";
    }
    else{
        $wherePart[] = "exam.exam_id=batch_exam_id";
        $wherePart[] = "(batch.date LIKE ' $examDateYear-$examDateMonth%' ";
    }
}
for($i = 0; $i < count($wherePart); $i++){
    if($i == count($wherePart) - 1){
        $queryString = $queryString." $wherePart[$i]";
    }
    else{
        $queryString = $queryString." $wherePart[$i] AND";
    }
}
}
if(($examDateWhich == 'Date Created') || ($examDateWhich == 'Batch Schedule')){
    $queryString = $queryString." GROUP BY exam.exam_id";
}
switch($examSortedBy){
    case 'Exam Id':
        $queryString = $queryString." ORDER BY exam.exam_id";
        break;
    case 'Subject Name':
        $queryString = $queryString." ORDER BY subject.subjectName";
        break;
    case 'Description':
        $queryString = $queryString." ORDER BY exam.description";
        break;
    case 'Author':
        $queryString = $queryString." ORDER BY exam.author";
        break;
    case 'Allotted Time':
        $queryString = $queryString." ORDER BY exam.allottedTime";
        break;
    case 'Date Created':
        $queryString = $queryString." ORDER BY exam.dateCreated";
        break;
    default:
        break;
}
if($examDirection == 'ascending'){
    $queryString = $queryString." ASC";
}
else{
    $queryString = $queryString." DESC";
}
}
// $date = date("M d, Y h:i:s A", time());
//echo "[ $queryString ] $date <br>";
echo "<br><br><hr width='100%' size='1' align='left' color='#008000' />";
//query the query string
if($filter == 'search'){
    //determine how many records...
    $resultQuery = mysql_query($queryString);
    $num_records = mysql_num_rows($resultQuery);
    $display_number = $examNumResults;
    if ($num_records > $display_number) {
        $num_pages = ceil ($num_records/$display_number);
    }
    else {
        $num_pages = 1;
    }
}
//Determine where in the database to start returning results...
if (isset($_GET['s'])) {
    $start = $_GET['s'];
}
else {
    $start = 0;
}
//retrieve the records applying LIMIT...
$queryString = $queryString." LIMIT '$start', ',$display_number";
$resultQuery = mysql_query($queryString);
if(mysql_num_rows($resultQuery) == 0){
    echo "<center>0 results returned</center>";
}

```



```

    }
}
if($deactivateStudentAccount == "deactivate student accounts"){
    connect_Db();
    $query = "UPDATE student SET status='inactive' ";
    $result = mysql_query($query);
    echo "message: all student accounts were successfully deactivated.<br><br>";
}
if($addNewStudentAccount == 'save'){
    connect_Db();
    $varNames = array('studentNumber', 'studentNumberYear', 'studentNumberNumber', 'firstName', 'middleName', 'lastName', 'course', 'college',
    'mobilePhone', 'landPhone', 'email', 'studAccountPassword');
    $studentNumber = $studentNumberYear.'-'. $studentNumberNumber;
    $query = "SELECT * FROM student WHERE student_number=' $studentNumber' ";
    $result = mysql_query($query);
    if(mysql_num_rows($result) == 0){
        $query = "INSERT INTO student VALUES (' $studentNumber', ' $firstName', ' $middleName', ' $lastName', ' $course', ' $college', ' $mobilePhone',
    ' $landPhone', ' $email', ' $studAccountPassword', ' active')";
        $result = mysql_query($query);
        echo "new student ($studentNumber) saved! ";
    }
    else{
        echo "error: student($studentNumber) already exists in the database!<br><br>";
    }
    foreach($varNames as $variableName){
        $$variableName = "";
    }
}
if($editStudentAccount == 'apply changes'){
    connect_Db();
    $varNames = array('studentNumber', 'studentNumberYear', 'studentNumberNumber', 'firstName', 'middleName', 'lastName', 'course', 'college',
    'mobilePhone', 'landPhone', 'email', 'studAccountPassword');
    $studentNumber = $studentNumberYear.'-'. $studentNumberNumber;
    $query = "UPDATE student SET student_number=' $studentNumber', first_name=' $firstName', middle_name=' $middleName', last_name=' $lastName',
    course=' $course', college=' $college', mobilePhone=' $mobilePhone', landPhone=' $landPhone', email=' $email', password=' $studAccountPassword' WHERE
    student_number=' $studentNumber' ";
    $result = mysql_query($query);
    echo "message: student ($studentNumber) account was updated successfully!<br><br>";
    foreach($varNames as $variableName){
        $$variableName = "";
    }
}
if($editStudentAccountStatusSubmit == "activate account"){
    connect_Db();
    $query = "UPDATE student SET status='active' WHERE student_number=' $studentNumber' ";
    $result = mysql_query($query);
    echo "message: The account was successfully ACTIVATED.<br><br>";
    unset($editStudentAccountStatusSubmit);
}
if($editStudentAccountStatusSubmit == "resume account"){
    connect_Db();
    $query = "UPDATE student SET status='active' WHERE student_number=' $studentNumber' ";
    $result = mysql_query($query);
    echo "message: The account was successfully RESUMED.<br><br>";
    unset($editStudentAccountStatusSubmit);
}
if($editStudentAccount == 'edit'){
    connect_Db();
    $studentNumber = $studentNumberYear.'-'. $studentNumberNumber;
    $query = "SELECT * FROM student WHERE student_number=' $studentNumber' ";
    $result = mysql_query($query);
    if(mysql_num_rows($result) == 0){
        echo "Sorry student ($studentNumber) does not exist!";
        $editStudentAccount = "";
    }
    else{
        $myrow = mysql_fetch_row($result);
        $firstName = $myrow[1];
        $middleName = $myrow[2];
        $lastName = $myrow[3];
        $course = $myrow[4];
        $college = $myrow[5];
        $mobilePhone = $myrow[6];
        $landPhone = $myrow[7];
        $email = $myrow[8];
        $studAccountPassword = $myrow[9];
        $status = $myrow[10];
    }
}
if($confirmDeleteStudentAccount == 'delete'){
    connect_Db();
    $studentNumber = $studentNumberYear.'-'. $studentNumberNumber;
    $query = "DELETE FROM student WHERE student_number=' $studentNumber' ";
    $result = mysql_query($query);
    echo "success: student ($studentNumber) deleted!";
    $varNames = array('cancelDeleteStudentAccount', 'deleteStudentAccount', 'studentNumber', 'studentNumberYear', 'studentNumberNumber',
    'firstName', 'middleName', 'lastName', 'course', 'college', 'mobilePhone', 'landPhone', 'email', 'studAccountPassword');
    foreach($varNames as $variableName){
        $$variableName = "";
    }
}
if($deleteStudentAccount == 'delete'){
    connect_Db();
    $studentNumber = $studentNumberYear.'-'. $studentNumberNumber;
    $query = "SELECT * FROM student WHERE student_number=' $studentNumber' ";
    $result = mysql_query($query);
    if(mysql_num_rows($result) == 0){
        echo "Sorry student ($studentNumber) does not exist!";
        $deleteStudentAccount = "";
    }
    else{
        $myrow = mysql_fetch_row($result);
        $firstName = $myrow[1];
        $middleName = $myrow[2];
        $lastName = $myrow[3];
        $course = $myrow[4];
        $college = $myrow[5];
        $mobilePhone = $myrow[6];
        $landPhone = $myrow[7];
        $email = $myrow[8];
        $studAccountPassword = $myrow[9];
    }
}
if($cancelDeleteStudentAccount == 'back'){
    $varNames = array('cancelDeleteStudentAccount', 'deleteStudentAccount', 'studentNumber', 'studentNumberYear', 'studentNumberNumber',
    'firstName', 'middleName', 'lastName', 'course', 'college', 'mobilePhone', 'landPhone', 'email', 'studAccountPassword');
    foreach($varNames as $variableName){
        $$variableName = "";
    }
}
}
if(($addNewStudentAccount == 'add new student account') || ($isPrematureSubmit == 1) || ($editStudentAccount == 'edit') || ($deleteStudentAccount
== 'delete')){
    if($deleteStudentAccount == 'delete'){
        echo "<form name='deleteStudentAccountDetails' action='?activeNav=&activeNav&activeTab=&activeTab' method='POST' >";
        echo "<table border='1' >";
        echo "<tr><td colspan='2' align='center' >Delete Student Account</td></tr>";
        echo "<tr><td>Student number</td><td>$studentNumber</td></tr>";
        echo "<tr><td>First name</td><td>$firstName</td></tr>";
    }
}

```

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echo "<tr><td>Middle name</td><td>$middleName</td></tr>";
echo "<tr><td>Last name</td><td>$lastName</td></tr>";
echo "<tr><td>College</td><td>$college</td></tr>";
echo "<tr><td>Course</td><td>$course</td></tr>";
echo "<tr><td>Mobile phone</td><td>$mobilePhone</td></tr>";
echo "<tr><td>Land phone</td><td>$landPhone</td></tr>";
echo "<tr><td>Email</td><td>$email</td></tr>";
echo "<tr><td>Password</td><td>$studAccountPassword</td></tr>";
echo "<tr><td colspan='2' align='center'><input type='submit' name='confirmDeleteStudentAccount' value='delete' onClick='return
confirmDeleteStudent(this.form)'>";
echo "</td></tr>";
echo "<input type='hidden' name='studentNumberYear' value='$studentNumberYear' />";
echo "<input type='hidden' name='studentNumberNumber' value='$studentNumberNumber' />";
echo "</table>";
echo "</form>";
echo "<form name='cancelDeleteStudentAccountDetails' action='?activeNav=$activeNav&activeTab=$activeTab' method='POST'>";
echo "<input type='submit' name='cancelDeleteStudentAccount' value='back'>";
echo "</form>";
}
else{
echo "Please fill in the following information:";
echo "<br>";
echo "<form name='editStudentAccountStatus' action='?activeNav=$activeNav&activeTab=$activeTab' method='POST' style='display:inline;'>";
echo "<table border='1'>";
if($editStudentAccount == 'edit'){
echo "<tr><td colspan='2' align='center'>Edit Student Account</td></tr>";
}
else{
echo "<tr><td colspan='2' align='center'>";
/*
echo "<a href='javascript:void(addClassLiStManager())'>";
echo "<font style='color:blue;font-size:75%;text-decoration:none;'>ADD CLASS LIST</font></a>";
/*
echo "<a href='?activeNav=$activeNav&activeTab=AddStudentList'>";
echo "<font style='color:blue;font-size:75%;text-decoration:none;'>ADD STUDENT LIST</font></a>";
echo "</td></tr>";
echo "<tr><td colspan='2' align='center'>Add Student Account</td></tr>";
}
echo "<tr><td>Account Status</td><td align='center'>";
if($status == "inactive"){
echo "<input type='submit' name='editStudentAccountStatusSubmit' value='activate account' />";
}
elseif($status == "suspended"){
echo "<input type='submit' name='editStudentAccountStatusSubmit' value='resume account' />";
}
else{
echo "$status";
}
echo "<input type='hidden' name='studentNumber' value='$studentNumber' />";
echo "<input type='hidden' name='editStudentAccount' value='edit' />";
echo "<input type='hidden' name='studentNumberYear' value='$studentNumberYear' />";
echo "<input type='hidden' name='studentNumberNumber' value='$studentNumberNumber' />";
echo "</td></tr>";
echo "</form>";
echo "<form name='newStudentAccountDetails' action='?activeNav=$activeNav&activeTab=$activeTab' method='POST' onSubmit='return
checkStudentAccountDetails(this)' onReset='return resetStudentAccountDetails(this)'>";
echo "<tr><td>Student number</td><td>";
echo "<input type='text' maxLength='4' size='4' name='studentNumberYear' value='$studentNumberYear'> - ";
echo "<input type='text' maxLength='5' size='5' name='studentNumberNumber' value='$studentNumberNumber'>";
echo "</td></tr>";
echo "<tr><td>First name</td><td><input type='text' maxLength='30' size='30' name='firstName' value='$firstName'></td></tr>";
echo "<tr><td>Middle name</td><td><input type='text' maxLength='30' size='30' name='middleName' value='$middleName'></td></tr>";
echo "<tr><td>Last Name</td><td><input type='text' maxLength='30' size='30' name='lastName' value='$lastName'></td></tr>";
echo "<tr><td>College</td><td>";
echo "<select name='college' onChange='displayCollegeCourses(this.form)'>";
echo "<option>please select college</option>";
connect_Db();
$query = "SELECT * FROM upm_colleges ORDER BY collegeName";
$result = mysql_query($query);
while($myrow = mysql_fetch_row($result)){
$queryA = "SELECT degree_programs.degreeProgramName FROM upm_colleges, degree_programs WHERE
upm_colleges.college_id=degree_programs.college_id AND upm_colleges.collegeName='$myrow[1]' ORDER BY collegeName";
$resultA = mysql_query($queryA);
if(mysql_num_rows($resultA) > 0){
while($myrowA = mysql_fetch_row($resultA)){
$degreeProgramString[] = $myrowA[0];
}
$collegeDegreeProgram[] = join(" ", $degreeProgramString);
$degreeProgramString = NULL;
if($college == $myrow[1]){
echo "<option value='$myrow[1]' selected='selected'>$myrow[1]</option>";
}
else{
echo "<option value='$myrow[1]'>$myrow[1]</option>";
}
}
}
echo "</select>";
echo "</td></tr>";
echo "<tr><td>Course</td><td>";
echo "<select name='course'>";
if(!isset($course)){
echo "<option>please select a college first</option>";
}
else{
echo "<option value='$course'>$course [current value]</option>";
}
echo "</select>";
echo "</td></tr>";
echo "<tr><td>Mobile phone</td><td><input type='text' maxLength='15' size='15' name='mobilePhone' value='$mobilePhone'></td></tr>";
echo "<tr><td>Land phone</td><td><input type='text' maxLength='15' size='15' name='landPhone' value='$landPhone'></td></tr>";
echo "<tr><td>Email address</td><td><input type='text' maxLength='30' size='30' name='email' value='$email'></td></tr>";
echo "<tr><td>Password</td><td><input type='password' maxLength='16' size='16' name='studAccountPassword'
value='$studAccountPassword'></td></tr>";
echo "<input type='hidden' name='studAccountPassword' />";
if($editStudentAccount == 'edit'){
echo "<tr><td colspan='2' align='center'><input type='submit' name='editStudentAccount' value='apply changes'>";
echo "<input type='reset' name='reset' value='reset'></td></tr>";
}
else{
echo "<tr><td colspan='2' align='center'><input type='submit' name='addNewStudentAccount' value='save'></td></tr>";
}
//array of courses goes here...
echo "<input type='hidden' name='courseH' value='$course [current value]'>";
echo "<input type='hidden' name='isPrematureSubmit' value='0'>";
foreach($collegeDegreeProgram as $collegeDegreeProgramValue){
echo "<input type='hidden' name='collegeDegreeProgram' value='$collegeDegreeProgramValue'>";
}
echo "</table>";
echo "</form>";
}
}
else{
echo "<form name='addNewStudentAccountForm' action='?activeNav=$activeNav&activeTab=$activeTab' method='POST'>";
echo "<input type='submit' name='addNewStudentAccount' value='add new student account'>";
echo "</form>";
//place search table here...

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        echo "<form name='editStudentAccountDetails' action='?actionNav=$actionNav&actionTab=$actionTab' method='POST' onSubmit='return
checkStudentNumber(this)';>";
        echo "<table border='1'>";
        echo "<tr><td colspan='2' align='center'>Edit Student Account</td></tr>";
        echo "<tr><td colspan='2' align='center'>Student number</td></tr>";
        echo "<input type='text' maxLength='4' size='4' name='studentNumberYear' value='$studentNumberYear'> - ";
        echo "<input type='text' maxLength='5' size='5' name='studentNumberNumber' value='$studentNumberNumber'>";
        echo "</td></tr>";
        echo "<tr><td colspan='2' align='center'><input type='submit' name='editStudentAccount' value='edit'>";
        echo "<input type='submit' name='deleteStudentAccount' value='delete'>";
        echo "</td></tr>";
        echo "</table>";
        echo "</form>";

//display student accounts deactivation form...
        echo "<form name='deactivateStudentAccountForm' action='?actionNav=$actionNav&actionTab=$actionTab' method='POST' onSubmit='return
deactivateStudentAccountConfirm(this,form)';>";
        echo "<input type='submit' name='deactivateStudentAccount' value='deactivate student accounts'>";
        echo "</form>";
    }
}
////////////////////////////////////
function manage_Tutor_Accounts(){
    foreach($GLOBALS as $key=>$value){
        //print "\$GLOBALS['$key'] == $value<br>";
        if (ereg("[a-z]", $key[0], $array )){
            //print "\$GLOBALS['$key'] == $value<br>";
            global $$key;
        }
        else{
        }
    }

    if(($addNewTutorAccount == 'save')||($addNewTutorAccount == 'apply changes')){
        connect_Db();
        $birthDay = $dayYear."-".$dayMonth."-".$dayDay;
        if($addNewTutorAccount == 'save'){
            $nextId = get_Next_Max_Id('tutor_id', 'tutor');
            $query = "SELECT * FROM tutor WHERE username= '$usernameTutor' ";
            $result = mysql_query($query);
            if(mysql_num_rows($result) == 0){
                $query = "INSERT INTO tutor VALUES ('$nextId', '$firstName', '$middleName', '$lastName', '$birthDay', '$usernameTutor',
                '$passwordTutor', '$mobilePhone', '$landPhone', '$email', '$tutorType', '$deptCourse', '')";
                $result = mysql_query($query);
                echo "message: new tutor ($firstName $middleName $lastName) saved.<br><br>";
                $tutor_id = $nextId;
                $deptCourseH = $deptCourse;
                $editTutorSchedule = 'edit tutor schedule';
            }
            else{
                echo "error: the username '$usernameTutor' is already taken please use a different one.<br><br>";
                $addNewTutorAccount = "add new tutor account";
            }
        }
        else{
            $query = "SELECT * FROM tutor WHERE username= '$usernameTutor' AND tutor_id= '$tutor_id' ";
            $result = mysql_query($query);
            if(mysql_num_rows($result) == 0){
                if(isset($tutoredSubj)){
                    $query = "UPDATE tutor SET firstName= '$firstName', middleName= '$middleName', lastName= '$lastName', birthDay= '$birthDay',
                    username= '$usernameTutor', mobilePhone= '$mobilePhone', landPhone= '$landPhone', email= '$email', tutorType= '$tutorType',
                    deptCourse= '$deptCourse', tutoredSubj= ''.implode(' ', $tutoredSubj)'' WHERE tutor_id= '$tutor_id' ";
                }
                else{
                    $query = "UPDATE tutor SET firstName= '$firstName', middleName= '$middleName', lastName= '$lastName', birthDay= '$birthDay',
                    username= '$usernameTutor', mobilePhone= '$mobilePhone', landPhone= '$landPhone', email= '$email', tutorType= '$tutorType', deptCourse= '$deptCourse'
                    WHERE tutor_id= '$tutor_id' ";
                }
                $editTutorTutoredSubjects = 'save';
            }
            $result = mysql_query($query);
            echo "message: the tutor account details of ($firstName $middleName $lastName) was successfully modified.<br><br>";
            $deptCourseH = $deptCourse;
            $editTutorSchedule = 'edit tutor schedule';
        }
        else{
            echo "error: the username '$usernameTutor' is already taken please use a different one.<br><br>";
            $query = "SELECT username FROM tutor WHERE tutor_id= '$tutor_id' ";
            $result = mysql_query($query);
            $myrow = mysql_fetch_row($result);
            $usernameTutor = $myrow[0];
            $editTutorSchedule = 'edit tutor schedule';
        }
    }
}

if($editTutorTimeSchedule == 'edit'){
    connect_Db();
    $query = "SELECT * FROM tutor_schedule WHERE tutorSchedule_id= '$tutorSchedule_id' ";
    $result = mysql_query($query);
    $myrow = mysql_fetch_row($result);
    $tutorSchedule_id = $myrow[0];
    $prefTimeArray = explode("-", $myrow[3]);
    $prefTimeFrom = $prefTimeArray[0];
    $prefTimeTo = $prefTimeArray[1];
    $day = explode(" ", $myrow[2]);
    $tutoredSubjStr = $tutoredSubj;
    unset($tutoredSubj);
    $tutoredSubj = explode(" ", $tutoredSubjStr);
    $editTutorSchedule = 'edit tutor schedule';
}

if($editTutorTimeSchedule == 'delete'){
    connect_Db();
    $query = "DELETE from tutor_schedule WHERE tutorSchedule_id= '$tutorSchedule_id' ";
    $result = mysql_query($query);
    $tutoredSubjStr = $tutoredSubj;
    unset($tutoredSubj);
    unset($day);
    unset($tutorSchedule_id);
    unset($prefTimeFrom);
    unset($prefTimeTo);
    $tutoredSubj = explode(" ", $tutoredSubjStr);
    $editTutorSchedule = 'edit tutor schedule';
    echo "message: the old timeslot was successfully deleted<br><br>";
}

if(($editTutorTimeSchedule == 'add')||($editTutorTimeSchedule == 'apply changes')){
    //check if new OR edited time conflicts with existing ones
    connect_Db();
    $noConflictFound = true;
    $a = str_replace(":", ":", $prefTimeFrom);
    $b = str_replace(":", ":", $prefTimeTo);
    if($a >= $b){
        echo "error: invalid time interval [$prefTimeFrom-$prefTimeTo].<br><br>";
        $noConflictFound = false;
    }
    else{
        for($i = 0; $i < count($day); $i++){
            if(isset($tutorSchedule_id)){
                $query = "SELECT prefTime FROM tutor_schedule WHERE prefDay LIKE '%$day[$i]%' AND tutor_id= '$tutor_id' AND
                tutorSchedule_id!= '$tutorSchedule_id' ";
            }
        }
    }
}

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else{
    $query = "SELECT prefTime FROM tutor_schedule WHERE prefDay LIKE '%$day[$i]%' AND tutor_id=' $tutor_id' ";
}
$result = mysql_query($query);
while($myrow = mysql_fetch_row($result)){
    $tempArray = explode("-", $myrow[0]);
    $c = str_replace(":", "", $tempArray[0]);
    $d = str_replace(":", "", $tempArray[1]);
    unset($tempArray);
    if(((($c < $a)&&($a < $d))|((($c < $b)&&($b < $d))|((($a < $c)&&($c < $b))|((($a < $d)&&($d < $b))|((($a == $c)&&($b == $d))))){
        echo "error: the timeslot [$prefTimeFrom-$prefTimeTo $day[$i]] conflicts with an existing one.<br><br>";
        $noConflictFound = false;
        break;
    }
}
if(!$noConflictFound){
    break;
}
}
}
if($noConflictFound){
    if(count($day) == 0){
        echo "message: the day attribute in the submitted timeslot was missing.<br><br>";
    }
    else{
        $prefDay = implode(" ", $day);
        $prefTime = $prefTimeFrom."-".$prefTimeTo;
        if(isset($tutorScheduleId)){
            $query = "UPDATE tutor_schedule SET tutor_id=' $tutor_id', prefDay=' $prefDay', prefTime=' $prefTime' WHERE
tutorScheduleId=' $tutorScheduleId' ";
            $result = mysql_query($query);
            echo "message: the old timeslot was successfully edited.<br><br>";
        }
        else{
            $nextId = getNextId('tutorScheduleId', 'tutor_schedule');
            $query = "INSERT INTO tutor_schedule VALUES (' $nextId', ' $tutor_id', ' $prefDay', ' $prefTime')";
            $result = mysql_query($query);
            echo "message: the new timeslot was successfully added.<br><br>";
        }
    }
}
$prefTimeFrom = "";
$prefTimeTo = "";
unset($day);
unset($tutorScheduleId);
SeditTutorSchedule = "edit tutor schedule";
}
if($editTutorTutoredSubjects == 'save'){
    connect_Db();
    if(isset($tutoredSubj)){
        $tutoredSubjStr = implode(' ', $tutoredSubj);
        $query = "UPDATE tutor SET tutoredSubject=' $tutoredSubjStr' WHERE tutor_id=' $tutor_id' ";
        $result = mysql_query($query);
        echo "message: The 'tutorial subjects' was successfully updated.<br><br>";
    }
    else{
        $query = "SELECT tutoredSubject FROM tutor WHERE tutor_id=' $tutor_id' ";
        $result = mysql_query($query);
        $myrow = mysql_fetch_row($result);
        $tutoredSubj = explode(" ", $myrow[0]);
    }
    SeditTutorSchedule = "edit tutor schedule";
}
if($searchTutorAccount == "edit"){
    connect_Db();
    $query = "SELECT * FROM tutor WHERE tutor_id=' $tutorIdToEdit' ";
    $result = mysql_query($query);
    $myrow = mysql_fetch_row($result);
    $tutor_id = $myrow[0];
    $firstName = $myrow[1];
    $middleName = $myrow[2];
    $lastName = $myrow[3];
    $bdayMonth = substr($myrow[4], 5, 2);
    $bdayDay = substr($myrow[4], 8, 2);
    $bdayYear = substr($myrow[4], 0, 4);
    $userNameTutor = $myrow[5];
    $passwordTutor = $myrow[6];
    $mobilePhone = $myrow[7];
    $landPhone = $myrow[8];
    $email = $myrow[9];
    $tutorType = $myrow[10];
    $deptCourseH = $myrow[11];
    $tutoredSubj = explode(" ", $myrow[12]);
    SeditTutorSchedule = "edit tutor schedule";
}
if($searchTutorAccount == "delete"){
    connect_Db();
    $query = "SELECT firstName, middleName, lastName FROM tutor WHERE tutor_id=' $tutorIdToDelete' ";
    $result = mysql_query($query);
    $myrow = mysql_fetch_row($result);
    $firstName = $myrow[0];
    $middleName = $myrow[1];
    $lastName = $myrow[2];
    $query = "DELETE FROM tutor WHERE tutor_id=' $tutorIdToDelete' ";
    $result = mysql_query($query);
    //delete tutor_id entries from tutor_schedule...
    $query = "DELETE FROM tutor_schedule WHERE tutor_id=' $tutorIdToDelete' ";
    $result = mysql_query($query);
    //set tutor_id to 0 for all tutorials handled by this tutor_id
    $query = "UPDATE tutorial SET tutor_id= 0 WHERE tutor_id=' $tutorIdToDelete' ";
    $result = mysql_query($query);
    echo "message: The tutor account ($firstName $middleName $lastName) was successfully deleted.<br><br>";
    $firstName = '';
    $middleName = '';
    $lastName = '';
}
if(($addNewTutorAccount == "add new tutor account")|($editTutorSchedule == "edit tutor schedule")){
    echo "Please fill in the information needed in the following:";
    echo "<form name='newTutorAccountDetails' action='?action=saveNav&action=saveTab' method='POST' onSubmit='return
checkTutorAccountDetails(this)' onReset='return resetEditStudentAccountDetails(this)' style='display:inline'>";
    echo "<table border='1'>";
    if($editTutorSchedule == "edit tutor schedule"){
        echo "<tr><td colspan='2' align='center'>Tutor Account Details</td></tr>";
    }
    else{
        echo "<tr><td colspan='2' align='center'>Add Tutor Account</td></tr>";
    }
    echo "<tr><td>First name</td><td><input type='text' maxLength='30' size='30' name='firstName' value=' $firstName'></td></tr>";
    echo "<tr><td>Middle name</td><td><input type='text' maxLength='30' size='30' name='middleName' value=' $middleName'></td></tr>";
    echo "<tr><td>Last Name</td><td><input type='text' maxLength='30' size='30' name='lastName' value=' $lastName'></td></tr>";
    echo "<tr><td>Birth day</td><td><";
    $currentYear = date("Y");
    $currentMonth = date("F");
    echo "<select name='bdayMonth' onChange='displayMonthDays(this.form)'>";
    $monthName = array('January', 'February', 'March', 'April', 'May', 'June', 'July', 'August', 'September', 'October', 'November',
'December');
    for($i = 1; $i < 13; $i++){
        $monthNameIndex = $i-1;
        if($i == $bdayMonth){

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    echo "<option value=' $i ' selected=' selected' >$monthName[$monthNameIndex]</option>";
  }
  else{
    echo "<option value=' $i ' >$monthName[$monthNameIndex]</option>";
  }
}
echo "</select>";
echo "<select name=' bdayDay' >";
for($i = 1; $i <= 32; $i++){
  if($bdayDay == $i){
    echo "<option value=' $i ' selected=' selected' >$i </option>";
  }
  else{
    echo "<option value=' $i ' >$i </option>";
  }
}
echo "</select>";
echo "<select name=' bdayYear' >";
for($i = $currentYear - 100; $i <= $currentYear + 100; $i++){
  if($i == $bdayYear){
    echo "<option value=' $i ' selected=' selected' >$i </option>";
  }
  else{
    echo "<option value=' $i ' >$i </option>";
  }
}
echo "</select>";
echo "<tr><td>Mobile phone</td><td><input type=' text' maxLength=' 15' size=' 15' name=' mobilePhone' value=' $mobilePhone' ></td></tr>";
echo "<tr><td>Land phone</td><td><input type=' text' maxLength=' 15' size=' 15' name=' landPhone' value=' $landPhone' ></td></tr>";
echo "<tr><td>Email address</td><td><input type=' text' maxLength=' 30' size=' 30' name=' email ' value=' $email ' ></td></tr>";
echo "<tr><td>Tutor type</td><td>";
if($tutorType == ' p '){
  echo "<input type=' radi o' name=' tutorType' value=' p ' checked=' checked' onCl ick=' return di splayCoursesOrDepartments(thi s. form)' />peer";
}
else{
  echo "<input type=' radi o' name=' tutorType' value=' p ' onCl ick=' return di splayCoursesOrDepartments(thi s. form)' />peer";
}
if($tutorType == ' f '){
  echo "<input type=' radi o' name=' tutorType' value=' f ' checked=' checked' onCl ick=' return di splayCoursesOrDepartments(thi s. form)' />facul ty";
}
else{
  echo "<input type=' radi o' name=' tutorType' value=' f ' onCl ick=' return di splayCoursesOrDepartments(thi s. form)' />facul ty";
}
}
echo "</td></tr>";
echo "<tr><td>Course/Department</td><td>";
connect_Db();
$query = "SELECT degreeProgram_id, degreeProgramName FROM degree_programs ORDER BY degreeProgramName";
$result = mysql_query($query);
if(mysql_num_rows($result) > 0){
  while($myrow = mysql_fetch_row($result)){
    $degreeProgramIdArray[] = $myrow[0];
    $degreeProgramNameArray[] = $myrow[1];
  }
  $degreeProgramIdString = join(", ", $degreeProgramIdArray);
  $degreeProgramNameString = join(", ", $degreeProgramNameArray);
}
$query = "SELECT department_id, departmentName FROM upm_departments ORDER BY departmentName";
$result = mysql_query($query);
if(mysql_num_rows($result) > 0){
  while($myrow = mysql_fetch_row($result)){
    $departmentIdArray[] = $myrow[0];
    $departmentNameArray[] = $myrow[1];
  }
  $departmentIdString = join(", ", $departmentIdArray);
  $departmentNameString = join(", ", $departmentNameArray);
}
echo "<select name=' deptCourse' >";
if($tutorType == ' f '){
  for($i = 0; $i < count($departmentIdArray); $i++){
    if($deptCourse == $departmentIdArray[$i]){
      echo "<option value=' $departmentIdArray[$i] ' selected=' selected' >$departmentNameArray[$i] </option>";
    }
    else{
      echo "<option value=' $departmentIdArray[$i] ' >$departmentNameArray[$i] </option>";
    }
  }
}
else{
  for($i = 0; $i < count($degreeProgramIdArray); $i++){
    if($deptCourse == $degreeProgramIdArray[$i]){
      echo "<option value=' $degreeProgramIdArray[$i] ' selected=' selected' >$degreeProgramNameArray[$i] </option>";
    }
    else{
      echo "<option value=' $degreeProgramIdArray[$i] ' >$degreeProgramNameArray[$i] </option>";
    }
  }
}
}
echo "</select>";
echo "</td></tr>";
echo "<tr><td>Username</td><td><input type=' text' maxLength=' 16' size=' 16' name=' usernameTutor' value=' $usernameTutor' ></td></tr>";
echo "<tr><td>Password</td><td>";
echo "<input type=' password' maxLength=' 16' size=' 16' name=' passwordTutor' value=' $passwordTutor' >";
echo "</td></tr>";
if($editTutorSchedule == "edit tutor schedule"){
  echo "<tr><td colspan=' 2' align=' center' ><input type=' submi t' name=' addNewTutorAccount' value=' apply changes' ><button type=' reset'
name=' reset' value=' reset' >reset</button></td></tr>";
}
else{
  echo "<tr><td colspan=' 2' align=' center' ><input type=' submi t' name=' addNewTutorAccount' value=' save' ></td></tr>";
}
echo "<input type=' hidde n' name=' degreeProgramIdString' value=' $degreeProgramIdString' />";
echo "<input type=' hidde n' name=' degreeProgramNameString' value=' $degreeProgramNameString' />";
echo "<input type=' hidde n' name=' departmentIdString' value=' $departmentIdString' />";
echo "<input type=' hidde n' name=' departmentNameString' value=' $departmentNameString' />";
echo "<input type=' hidde n' name=' deptCourseH' value=' $deptCourseH' />";
echo "<input type=' hidde n' name=' tutor_id' value=' $tutor_id' />";
//echo "<input type=' hidde n' name=' passwordTutor' value=' $passwordTutor' />";
echo "</table>";
echo "</form>";
if($editTutorSchedule == "edit tutor schedule"){
  echo "<form name=' editTutorScheduleSubjects' action=' ?acti veNav=$acti veNav&acti veTab=$acti veTab' method=' POST' >";
  $tutorDetailArray = array(' tutor_id', ' firstName', ' mi ddleName', ' lastName', ' bdayMonth', ' bdayDay', ' bdayYear', ' usernameTutor',
' passwordTutor', ' mobilePhone', ' landPhone', ' email', ' tutorType', ' deptCourse', ' deptCourseH');
  foreach($tutorDetailArray as $tutorDetailVar){
    echo "<input type=' hidde n' name=' $tutorDetailVar' value=' ${$tutorDetailVar}' />";
  }
  echo "<table style=' border-bottom: 0px; ' border=' 1' width=' 50%' ><tr><td colspan=' 2' align=' center' >Tutorial Subjects</td></tr></table>";
  echo "<div style=' height: 100px; width: 50%; overflow: auto; >";
  echo "<table style=' border-top: 0px; border-bottom: 0px; ' border=' 1' width=' 100%' >";
  connect_Db();
  $query = "SELECT * FROM subject ORDER BY subjectName";
  $result = mysql_query($query);
  echo "<tr><td><td align=' center' >Subject name</td><td align=' center' >Subject description</td></tr>";
  while($myrow = mysql_fetch_row($result)){
    $isCheckedPreviously = 0;
    if(isset($tutoredSubj)){
      foreach($tutoredSubj as $tutoredSubjVal){
        if($tutoredSubjVal == $myrow[0]){

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        $isCheckedPreviously = 1;
        break;
    }
}
}
if($isCheckedPreviously == 1){
    echo "<tr><td><input type='checkbox' name='tutoredSubj []' value=' $myrow[0]'
checked='checked' /></td><td>$myrow[1]</td><td>$myrow[2]</td></tr>";
}
else{
    echo "<tr><td><input type='checkbox' name='tutoredSubj []' value=' $myrow[0]' /></td><td>$myrow[1]</td><td>$myrow[2]</td></tr>";
}
}
echo "</table>";
echo "</div>";
echo "<table border='1' width='50%'><tr><td align='center'><input type='submit' name='editTutorTutoredSubjects'
value='save'></tr></table>";
echo "</form>";
echo "<form name='editTutorScheduleSubjects' action='?activeNav=$activeNav&activeTab=$activeTab' method='POST'>";
foreach($TutorDetailArray as $TutorDetailVar){
    echo "<input type='hidden' name='$TutorDetailVar' value=' ${TutorDetailVar}' />";
}
if(isset($TutoredSubj)){
    foreach($TutoredSubj as $TutoredSubjVal){
        echo "<input type='hidden' name='tutoredSubj []' value=' $TutoredSubjVal'>";
    }
}
$dayNameArray = array('Monday', 'Tuesday', 'Wednesday', 'Thursday', 'Friday');
echo "<table border='1'>";
echo "<tr><td align='center' colspan='".(3 + count($dayNameArray)).">Times</td></tr>";
echo "<tr><td align='center'>Time</td>";
foreach($dayNameArray AS $dayNameArrayElem){
    echo "<td align='center'>$dayNameArrayElem</td>";
}
echo "</tr>";
$query = "SELECT * FROM tutor_schedule WHERE tutor_id=' $tutor_id' ORDER BY prefTime ";
$result = mysql_query($query);
$linkStr = "http://localhost/toes/admin/admin.php?";
foreach($GLOBALS as $key=>$value){
    if (ereg("[a-z]", $key[0], $array )){
        switch($key){
            case 'tutoredSubj':
                $linkStr = $linkStr.$key.'='.implode(" ", $TutoredSubj).'&';
                break;
            default:
                $linkStr = $linkStr.$key.'='.$value.'&';
                break;
        }
    }
}
if(mysql_num_rows($result) > 0){
    while($myrow = mysql_fetch_row($result)){
        $linkStr = $linkStr.'tutorSchedule_id='.$myrow[0].'&';
        echo "<tr><td>";
        if($TutorSchedule_id == $myrow[0]){
            echo "&edit";
        }
        else{
            $linkStrHref = $linkStr.'editTutorTimeSchedule=edit';
            echo "<a href=' $linkStrHref'>edit</a>";
        }
        echo "&nbsp;";
        $linkStrHref = $linkStr.'editTutorTimeSchedule=delete';
        echo "<a href=' $linkStrHref'>delete</a>";
        echo "</td>";
        $tempTimeStr = getTimeOfDay($myrow[3]);
        echo "<td>$tempTimeStr</td>";
        $tempArray = explode(" ", $myrow[2]);
        foreach($dayNameArray AS $dayNameArrayElem){
            if(in_array($dayNameArrayElem, $tempArray)){
                echo "<td align='center'>+</td>";
            }
            else{
                echo "<td align='center'>&nbsp;</td>";
            }
        }
    }
}
else{
    echo "<tr><td colspan='".(3 + count($dayNameArray)).">no records</td></tr>";
}
if(isset($TutorSchedule_id)){
    echo "<tr><td colspan='".(3 + count($dayNameArray)).">id=' $id'> currently being edited</td></tr>";
}
else{
    echo "<tr><td colspan='".(3 + count($dayNameArray)).">id=' $id'>&nbsp;</td></tr>";
}
echo "<tr><td>Time</td><td colspan='".(2 + count($dayNameArray)).">from&nbsp;&nbsp;";
echo "<select name='prefTimeFrom'>";
$timeDisplayMod = 'AM';
for($i = 8; $i < 18; $i++){
    if($i > 11){
        $timeDisplayMod = 'PM';
    }
    if($i > 12){
        $timeDisplayFixed = $i - 12;
    }
    else{
        $timeDisplayFixed = $i;
    }
    $timeVal = $i.':00';
    if(strlen($timeVal) == 4){
        $timeVal = '0'.$timeVal;
    }
    $timeDisplay = $timeDisplayFixed.':00';
    if($prefTimeFrom == $timeVal){
        echo "<option value=' $timeVal' selected='selected'>$timeDisplay $timeDisplayMod</option>";
    }
    else{
        echo "<option value=' $timeVal'>$timeDisplay $timeDisplayMod</option>";
    }
    $timeVal = $i.':30';
    if(strlen($timeVal) == 4){
        $timeVal = '0'.$timeVal;
    }
    $timeDisplay = $timeDisplayFixed.':30';
    if($prefTimeFrom == $timeVal){
        echo "<option value=' $timeVal' selected='selected'>$timeDisplay $timeDisplayMod</option>";
    }
    else{
        echo "<option value=' $timeVal'>$timeDisplay $timeDisplayMod</option>";
    }
}
echo "</select>";
echo "&nbsp; to&nbsp;&nbsp;";
echo "<select name='prefTimeTo'>";
$timeDisplayMod = 'AM';
for($i = 8; $i < 18; $i++){

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echo "</select>";
echo "<br><select name=' department' >";
echo "<option value=' any' >any</option>";
$query = "SELECT department_id, departmentName FROM upm_departments ORDER BY departmentName";
$result = mysql_query($query);
if(mysql_num_rows($result) > 0){
    while($myrow = mysql_fetch_row($result)){
        if($department == $myrow[0]){
            echo "<option value=' $myrow[0]' selected=' selected' >$myrow[1]</option>";
        }
        else{
            echo "<option value=' $myrow[0]' >$myrow[1]</option>";
        }
    }
}
echo "</select><br>";
echo "</td></tr>";
echo "<tr><td>Schedule</td><td>";
echo "<select name=' scheduleCriteria' onChange=' return displayHideSchedule(this.form)' >";
if($scheduleCriteria == ' any'){
    echo "<option value=' any' checked=' checked' >any</option>";
}
else{
    echo "<option value=' any' >any</option>";
}
if($scheduleCriteria == ' at least one of the following'){
    echo "<option value=' at least one of the following' selected=' selected' >at least one of the following</option>";
}
else{
    echo "<option value=' at least one of the following' >at least one of the following</option>";
}
if($scheduleCriteria == ' exactly all of the following'){
    echo "<option value=' exactly all of the following' selected=' selected' >exactly all of the following</option>";
}
else{
    echo "<option value=' exactly all of the following' >exactly all of the following</option>";
}
echo "</select>";
echo "<br>";
echo "<span id=' spanTutorSearchSchedule' style=' display: none' >";
$dayNameArray = array(' Monday', ' Tuesday', ' Wednesday', ' Thursday', ' Friday');
for($i = 0; $i < count($dayNameArray); $i++){
    $was_selected_before=0;
    for($j = 0; $j < count($schedule); $j++){
        if($schedule[$j] == $dayNameArray[$i]){
            $was_selected_before=1;
            break;
        }
    }
    if(($was_selected_before == 1) || ($searchTutorFrequency == 1)){
        echo "<input type=' checkbox' name=' schedule[' val ue=' $dayNameArray[$i]' checked=' checked' />$dayNameArray[$i]";
    }
    else{
        echo "<input type=' checkbox' name=' schedule[' val ue=' $dayNameArray[$i]' />$dayNameArray[$i]";
    }
}
echo "</span>";
echo "</td></tr>";
echo "<tr><td>Subject</td><td>";
echo "<select name=' subject' >";
echo "<option value=' any' >any</option>";
$query = "SELECT subject_id, subjectName FROM subject ORDER BY subjectName";
$result = mysql_query($query);
if(mysql_num_rows($result) > 0){
    while($myrow = mysql_fetch_row($result)){
        if($subject == $myrow[0]){
            echo "<option value=' $myrow[0]' selected=' selected' >$myrow[1]</option>";
        }
        else{
            echo "<option value=' $myrow[0]' >$myrow[1]</option>";
        }
    }
}
echo "</select>";
echo "</td></tr>";
echo "<tr><td>Sorted by</td><td>";
$sortedByDisplayArray = array(' First name', ' Middle name', ' Last name', ' Birthday', ' Username', ' Tutor type', ' Course/Department');
$sortedByArray = array(' firstName', ' middleName', ' lastName', ' birthday', ' username', ' tutorType', ' deptCourse');
//SortedByDisplayArray = array(' First name'=>' firstName', ' Middle name'=>' middleName', ' Last name'=>' lastName', ' Birthday'=>' birthday',
' Username'=>' username', ' Tutor type'=>' tutorType', ' Course/Department'=>' deptCourse');
echo "<select name=' sortedBy' >";
for($i = 0; $i < count($sortedByArray); $i++){
    if($sortedBy == $sortedByArray[$i]){
        echo "<option value=' $sortedByArray[$i]' selected=' selected' >$sortedByDisplayArray[$i]</option>";
    }
    else{
        echo "<option value=' $sortedByArray[$i]' >$sortedByDisplayArray[$i]</option>";
    }
}
echo "</select>";
echo "</td></tr>";
echo "<tr><td>Di rection</td><td>";
if(($di rection == ' ascending') || ($searchTutorFrequency == 1)){
    echo "<input type=' radi o' name=' di rection' val ue=' ascending' checked=' checked' />ascending";
}
else{
    echo "<input type=' radi o' name=' di rection' val ue=' ascending' />ascending";
}
if($di rection == ' descending'){
    echo "<input type=' radi o' name=' di rection' val ue=' descending' checked=' checked' />descending";
}
else{
    echo "<input type=' radi o' name=' di rection' val ue=' descending' />descending";
}
echo "</td></tr>";
echo "<input type=' hidden' name=' searchTutorFrequency' val ue=' $searchTutorFrequency' />";
echo "<tr><td colspan=' 2' align=' center' >";
echo "<input type=' submit' name=' searchTutorAccount' val ue=' search' >";
echo "<button type=' reset' name=' reset' val ue=' reset' onClick=' return resetTutorAccountSearch(this.form)' >reset</button>";
echo "</td></tr>";
echo "</table>";
echo "</form>";
}
if($searchTutorAccount == "search"){
    if(($bdayMonth == ' any') && ($peerInSearch == ' on') && ($degreeProgram == ' any') && (($facultyInSearch == ' on') && ($department ==
' any') && (count($schedule) == 5) && ($subject == ' any')){
        $queryString = ' SELECT * FROM tutor';
    }
    else{
        if($bdayMonth != ' any'){
            $queryStringArray[] = " birthday LIKE '%-$bdayMonth%' ";
        }
        if($degreeProgram == ' any'){
            $deptCourseFilterArray[] = " deptCourse LIKE '% ' ";
        }
        else{
            $deptCourseFilterArray[] = " deptCourse= '$degreeProgram' ";
        }
    }
}

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if($department == 'any'){
    $deptCourseFilterArray[] = "deptCourse LIKE '% '";
}
else{
    $deptCourseFilterArray[] = "deptCourse=' $department '";
}
if(($peerInSearch == 'on')&&($facultyInSearch == 'on')){
    $queryStringArray[] = "(((tutorType='p') AND ($deptCourseFilterArray[0])) OR ((tutorType='f') AND ($deptCourseFilterArray[1]))>";
}
else{
    if($peerInSearch == 'on'){
        $queryStringArray[] = "((tutorType='p') AND ($deptCourseFilterArray[0]))";
    }
    else{
        $queryStringArray[] = "((tutorType='f') AND ($deptCourseFilterArray[1]))";
    }
}
if($subject != 'any'){
    // $queryStringArray[] = "tutoredSubject LIKE '%$subject%'";
    $queryStringArray[] = "(tutoredSubject LIKE '$subject' OR tutoredSubject LIKE '%,$subject,%' OR tutoredSubject LIKE '%,$subject' OR
tutoredSubject LIKE '$subject,%')";
}
if(count($queryStringArray) > 0){
    $queryString = 'SELECT * FROM tutor WHERE '.implode(" AND ", $queryStringArray);
}
else{
    $queryString = 'SELECT * FROM tutor';
}
}
$queryString = $queryString." ORDER BY $sortedBy";
if($direction == 'ascending'){
    $queryString = $queryString.' ASC';
}
else{
    $queryString = $queryString.' DESC';
}
$result = mysql_query($queryString);
//echo "[ $queryString]";
echo "<hr width='100%' size='1' align='left' color='#008000' />";

if(mysql_num_rows($result) > 0){
    $searchResultIteration = 0;
    while($myrow = mysql_fetch_row($result)){
        if($scheduleCriteria == 'any'){
            $queryA = "SELECT tutorSchedule_id FROM tutor_schedule WHERE tutor_id=' $myrow[0] '";
        }
        else{
            if($scheduleCriteria == 'at least one of the following'){
                $orOrAnd = 'OR';
            }
            else{
                $orOrAnd = 'AND';
            }
            $prefDayLike = "((prefDay LIKE '%$schedule[0]%'";
            for($i = 1; $i < count($schedule); $i++){
                $prefDayLike = "$prefDayLike $orOrAnd (prefDay LIKE '%$schedule[$i]%'";
            }
            $prefDayLike = $prefDayLike.'))';
            $queryA = "SELECT tutorSchedule_id FROM tutor_schedule WHERE tutor_id=' $myrow[0] ' AND ".$prefDayLike." ORDER BY prefTime";
        }
        $currentRowHasRightSchedule = false;
        $resultA = mysql_query($queryA);
        if((mysql_num_rows($resultA) > 0)||($scheduleCriteria == 'any')){
            $searchResultIteration++;
            $currentRowHasRightSchedule = true;
        }
        if($searchResultIteration == 1){
            echo "<div style='height: auto; width: 100%; overflow: scroll; '>";
            echo "<table id=' tutorSearchResultTable' border='1'>";
            $searchResultHeaderArray = array('Name', 'BirthDay-br>(yyyy-mm-dd)', 'Username', 'Mobile phone', 'Land phone', 'Email address',
'Tutor type', 'Course/Department', 'Tutored subject', 'Free Time');
            echo "<tr>";
            foreach($searchResultHeaderArray as $searchResultHeaderElem){
                echo "<td align='center' nowrap='nowrap'>$searchResultHeaderElem</td>";
            }
            echo "</tr>";
            $searchResultIteration++;
        }
        if($currentRowHasRightSchedule){
            echo "<tr id=' tutorAccountSearchResultTable'>";
            echo "<td><a href=' ?acti veNav= $acti veNav&acti veTab= $acti veTab&searchTutorAccount= edi t&tutorIdToEdit= $myrow[0] >edi t</a>";
            echo "&nbsp;";
            href=' ?acti veNav= $acti veNav&acti veTab= $acti veTab&searchTutorAccount= del ete&tutorIdToDel ete= $myrow[0] >del ete</a></td>";
            echo "<td>$myrow[1] $myrow[2] $myrow[3]</td>";
            echo "<td>$myrow[4]</td>";
            echo "<td>$myrow[5]</td>";
            echo "<td>$myrow[7]</td>";
            echo "<td>$myrow[8]</td>";
            echo "<td>$myrow[9]</td>";
            if($myrow[10] == 'p'){
                echo "<td-peer</td>";
                $queryB = "SELECT degreeProgramName FROM degree_programs WHERE degreeProgram_id=' $myrow[11] '";
                $resultB = mysql_query($queryB);
                $myrowB = mysql_fetch_row($resultB);
                echo "<td>$myrowB[0]</td>";
            }
            else{
                echo "<td>faculty</td>";
                $queryB = "SELECT departmentName FROM upm_departments WHERE department_id=' $myrow[11] '";
                $resultB = mysql_query($queryB);
                $myrowB = mysql_fetch_row($resultB);
                echo "<td>$myrowB[0]</td>";
            }
        }
        //echo "<td>$myrow[11]</td>";
        $tutoredSubjArray = explode(",", $myrow[12]);
        echo "<td>";
        if($myrow[12] == ''){
            echo "<font color='red'>please add a subject</font>";
        }
        else{
            foreach($tutoredSubjArray as $tutoredSubjElem){
                $queryA = "SELECT subjectName FROM subject WHERE subject_id=' $tutoredSubjElem '";
                $queryA = $queryA.' ORDER BY subjectName';
                $resultA = mysql_query($queryA);
                while($myrowA = mysql_fetch_row($resultA)){
                    echo "$myrowA[0]<br>";
                }
            }
            echo "</td>";
            echo "<td>";
            $queryB = "SELECT prefTime, prefDay FROM tutor_schedule WHERE tutor_id=' $myrow[0] ' ORDER BY prefTime";
            $resultB = mysql_query($queryB);
            if(mysql_num_rows($resultB) > 0){
                while($myrowB = mysql_fetch_row($resultB)){
                    $tempTimeStr = getTimesOfDay($myrowB[0]);
                    echo "$tempTimeStr $myrowB[1]<br>";
                }
            }
        }
    }
}

```

```

else{
    echo "<font color='red'>please add a timeslot</font>";
}
echo "</td>";
echo "</tr>";
}
}
if($searchResultIteration == 0){
    echo "<center>0 results returned</center>";
}
if($searchResultIteration > 0){
    echo "</table>";
    echo "</div>";
}
}
else{
    echo "<center>0 results returned</center>";
}
echo "<br><hr width='100%' size='1' align='left' color='#008000' />";
}
}
////////////////////////////////////
function getTimeslotDisplay($timeslot){
    $timeslotArray = explode("-", $timeslot);
    $timeslotArrayL = explode(":", $timeslotArray[0]);
    if($timeslotArrayL[0] > 11){
        $timeslotArrayL[1] = 'PM';
    }
    else{
        $timeslotArrayL[1] = 'AM';
    }
    if($timeslotArrayL[0] > 12){
        $timeslotArrayL[0] = $timeslotArrayL[0] - 12;
    }
    $timeslotArrayR = explode(":", $timeslotArray[1]);
    if($timeslotArrayR[0] > 11){
        $timeslotArrayR[1] = 'PM';
    }
    else{
        $timeslotArrayR[1] = 'AM';
    }
    if($timeslotArrayR[0] > 12){
        $timeslotArrayR[0] = $timeslotArrayR[0] - 12;
    }
    $timeslotArray[0] = implode(":", $timeslotArrayL);
    $timeslotArray[1] = implode(":", $timeslotArrayR);
    if(strlen($timeslotArray[0]) == 6){
        $timeslotArray[0] = '0'. $timeslotArray[0];
    }
    if(strlen($timeslotArray[1]) == 6){
        $timeslotArray[1] = '0'. $timeslotArray[1];
    }
    return implode("-", $timeslotArray);
}
////////////////////////////////////
function manage_LRC_Accounts(){
    foreach($GLOBALS as $key=>$value){
        //print "\$GLOBALS["$key"] = $value<br>";
        if (ereg("[a-z]", $key[0], $array )){
            //print "\$GLOBALS["$key"] = $value<br>";
            global $$key;
        }
        else{
        }
    }
    if($addNewTutorAccount == 'add'){
        connect_Db();
        $query = "SELECT personnel_id FROM irc_personnel WHERE username=' $ircUsername' ";
        $result = mysql_query($query);
        if(mysql_num_rows($result) == 0){
            $nextId = getNextId('personnel_id', 'irc_personnel');
            $valueArray = array('personnel_id', 'personnel Type', 'firstName', 'middleName', 'lastName', 'ircUsername', 'ircPassword');
            $valueStr = "$nextId", ' $personnel Type', ' $firstName', ' $middleName', ' $lastName', ' $ircUsername', ' $ircPassword';
            $query = "INSERT INTO irc_personnel (personnel_id, personnel Type, firstName, middleName, lastName, username, password) VALUES ($valueStr)";
            $result = mysql_query($query);
            foreach($valueArray as $valueElem){
                unset($valueElem);
            }
        }
        else{
            echo "error: the specified username [$ircUsername] is already taken please try a different one.<br><br>";
        }
    }
    if($addNewTutorAccount == 'apply changes'){
        connect_Db();
        $query = "SELECT personnel_id FROM irc_personnel WHERE username=' $ircUsername' AND personnel_id=' $personnel_id' ";
        $result = mysql_query($query);
        if(mysql_num_rows($result) == 0){
            $query = "UPDATE irc_personnel SET personnel_id=' $personnel_id', personnel Type=' $personnel Type', firstName=' $firstName', middleName=' $middleName', lastName=' $lastName', username=' $ircUsername', password=' $ircPassword' WHERE personnel_id=' $personnel_id' ";
            $result = mysql_query($query);
            $valueArray = array('personnel_id', 'personnel Type', 'firstName', 'middleName', 'lastName', 'ircUsername', 'ircPassword');
            foreach($valueArray as $valueElem){
                unset($valueElem);
            }
        }
        else{
            echo "error: the specified username [$ircUsername] is already taken please try a different one.<br><br>";
        }
    }
    if(isset($personnelIdToDelete)){
        connect_Db();
        $query = "DELETE FROM irc_personnel WHERE personnel_id=' $personnelIdToDelete' ";
        $result = mysql_query($query);
        echo "message: the specified irc personnel account was successfully deleted.<br><br>";
    }
    if(isset($personnelIdToEdit)){
        connect_Db();
        $query = "SELECT * FROM irc_personnel WHERE personnel_id=' $personnelIdToEdit' ";
        $result = mysql_query($query);
        $myrow = mysql_fetch_row($result);
        $personnel_id = $myrow[0];
        $personnel Type = $myrow[1];
        $firstName = $myrow[2];
        $middleName = $myrow[3];
        $lastName = $myrow[4];
        $ircUsername = $myrow[5];
        $ircPassword = $myrow[6];
    }
    echo "<table border='1'>";
    echo "<tr><td colspan='5' align='center'>List of LRC Personnel Accounts</td></tr>";
    echo "<tr>";
    $headerDisplay = array(' ', 'First Name', 'Middle Name', 'Last Name', 'Personnel Type');
    $headerColumnName = array(' ', 'firstName', 'middleName', 'lastName', 'personnel Type');
    for($i = 0; $i < count($headerDisplay); $i++){
        //if(($currentSortedBy != '') && ($currentSortedBy == $prevSortedBy) && ($currentSortedBy == $headerColumnName[$i])){
        if(($currentSortedBy != '') && ($currentSortedBy == $headerColumnName[$i])){
            if(($direction == 'asc') || ($currentSortedBy != $prevSortedBy)){

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        $directionStr = 'ASC';
        $direction = ' &#8595';
    }
    else{
        if($directionStr == 'ASC'){
            $directionStr = 'DESC';
            $direction = ' &#8593';
        }
        else{
            $directionStr = 'ASC';
            $direction = ' &#8595';
        }
    }
}
else{
    $direction = '';
}
echo " <td align='center' ><a href='?activeNav=$activeNav&activeTab=$activeTab&currentSortBy=$headerColumnName[$i]&prevSortBy=$currentSortBy&directionStr=$directionStr' >HeaderDisplay[$i]$direction</a></td>";
}
echo "</tr>";
connect_Db();
if($currentSortBy == ''){
    $query = "SELECT personnel_id, firstName, middleName, lastName, personnelType FROM lrc_personnel $directionStr";
}
else{
    $query = "SELECT personnel_id, firstName, middleName, lastName, personnelType FROM lrc_personnel ORDER BY $currentSortBy $directionStr";
}
$result = mysql_query($query);
$linkIndex = 0;
while($myrow = mysql_fetch_row($result)){
    echo "<tr><td align='center' >";
    if(isset($personnelIdToEdit) && ($personnelIdToEdit == $myrow[0])){
        echo "-editing-";
    }
    else{
        echo "<a href='?activeNav=$activeNav&activeTab=$activeTab&personnelIdToEdit=$myrow[0]' >edit</a>&nbsp;";
        echo "<a href='?activeNav=$activeNav&activeTab=$activeTab&personnelIdToDelete=$myrow[0]' onClicK='return confirmDeleteLrcAccount($linkIndex)' >delete</a>";
    }
    echo "</td>";
    echo "<td>$myrow[1]</td>";
    echo "<td>$myrow[2]</td>";
    echo "<td>$myrow[3]</td>";
    echo "<td>$myrow[4]</td>";
    echo "</tr>";
    $linkIndex++;
    $lrcAccountTableDataArray[] = implode(" ", $myrow);
}
echo "</table>";
echo "<form name='lrcAccountTableData' action='?activeNav=$activeNav&activeTab=$activeTab' method='POST' >";
foreach($lrcAccountTableDataArray as $lrcAccountTableDataElement){
    echo "<input type='hidden' name='lrcAccountTableDataArray[]' value='$lrcAccountTableDataElement' />";
}
echo "</form>";
echo "<form name='lrcPersonnelForm' action='?activeNav=$activeNav&activeTab=$activeTab' method='POST' onSubmit='return lrcPersonnelCheck(this)' onReset='return toesAccountOnReset(\"lrc\", this)' >";
echo "<table border='1' >";
if(isset($personnelIdToEdit)){
    echo "<tr><td colspan='2' align='center' >Edit LRC personnel Account</td></tr>";
}
else{
    echo "<tr><td colspan='2' align='center' >Add New LRC personnel Account</td></tr>";
}
echo "<tr><td>First name</td><td><input type='text' maxLength='30' size='30' name='firstName' value='$firstName' ></td></tr>";
echo "<tr><td>Middle name</td><td><input type='text' maxLength='30' size='30' name='middleName' value='$middleName' ></td></tr>";
echo "<tr><td>Last Name</td><td><input type='text' maxLength='30' size='30' name='lastName' value='$lastName' ></td></tr>";
echo "<tr><td>Personnel type</td><td>";
echo "<select name='personnelType' >";
$personnelTypeArray = array('staff', 'lrc director', 'administration officer');
foreach($personnelTypeArray as $personnelTypeElement){
    if($personnelType == $personnelTypeElement){
        echo "<option value='$personnelTypeElement' selected='selected' >$personnelTypeElement</option>";
    }
    else{
        echo "<option value='$personnelTypeElement' >$personnelTypeElement</option>";
    }
}
echo "</select>";
echo "</td></tr>";
echo "<tr><td>Username</td><td><input type='text' maxLength='16' size='16' name='lrcUsername' value='$lrcUsername' ></td></tr>";
echo "<tr><td>Password</td><td><input type='password' maxLength='16' size='16' value='$lrcPassword' ></td></tr>";
echo "<input type='hidden' name='lrcPasswordJ' value='$lrcPassword' outputPasswordValues='1' />";
echo "<input type='hidden' name='personnel_id' value='$personnel_id' />";
if(isset($personnelIdToEdit)){
    echo "<tr><td colspan='2' align='center' ><input type='submit' name='addNewTutorAccount' value='apply changes' ><button type='reset' name='reset' value='reset' >reset</button></td></tr>";
}
else{
    echo "<tr><td colspan='2' align='center' ><input type='submit' name='addNewTutorAccount' value='add' ><button type='reset' name='reset' value='reset' >reset</button></td></tr>";
}
echo "</table>";
echo "</form>";
}
////////////////////////////////////
function manage_Tutorial_Request(){
    foreach($GLOBALS as $key=>$value){
        //print "\$GLOBALS['$key'] = $value<br>";
        if (ereg("[a-z]", $key[0], $array )){
            //print "\$GLOBALS['$key'] = $value<br>";
            global $$key;
        }
    }
}
if(isset($tutorForTheTutorial)){
    connect_Db();
    $query = "SELECT DISTINCT(t.tutorial_id), a.tutorial_id FROM tutorial AS t LEFT JOIN attendance AS a ON (t.tutorial_id=a.tutorial_id) WHERE t.tutor_id=$tutorForTheTutorial AND t.subject=$subject AND t.topic=$topic AND t.time=$time AND t.date=$date ";
    $result = mysql_query($query);
    if(mysql_num_rows($result) == 0){
        //create the tutorial
        $tutorial_id = get_Next_Id('tutorial_id');
        $query = "INSERT INTO tutorial VALUES ('$tutorial_id', '$tutorForTheTutorial', '$subject', '$topic', '$time', '$date')";
        $result = mysql_query($query) or die(err_msg());
        echo "message: a NEW 'TUTORIAL SCHEDULE' was created for the request.<br><br>";
    }
    else{
        $myrow = mysql_fetch_row($result);
        if($myrow[1] != ''){
            $queryA = "SELECT CONCAT(firstName, ' ', middleName, ' ', lastName) FROM tutor WHERE tutorial_id=$tutorForTheTutorial ";
            $resultA = mysql_query($queryA);
            $myrowA = mysql_fetch_row($resultA);
            $tutorForTheTutorialName = $myrowA[0];
            $queryA = "SELECT COUNT(student_number) FROM attendance WHERE tutorial_id=$myrow[0] ";
            $resultA = mysql_query($queryA);

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        $myrowA = mysql_fetch_row($resul tA);
        echo "error: sorry but a similar tutorial was handled by $tutorForTheTutorialName. Our records also show that $myrowA[0] attended it.
You may verify this information from a STAFF.<br><br>";
    }
    else{
        $tutorial_id = $myrow[0];
        echo "message: an EXISTING 'TUTORIAL SCHEDULE' was found FIT for the request.<br>";
    }
}
if($tutorial_id != ""){
    //enlist the requestors...
    $query = "SELECT student_number FROM request WHERE subject='$subject' AND topic='$topic' AND preferredDay='$date' AND
preferredTime='$time' ORDER BY requestDate ASC";
    $resul t = mysql_query($query);
    $priorityNumber = 1;
    while($myrow = mysql_fetch_row($resul t)){
        $queryA = "INSERT INTO enlistment VALUES ('$myrow[0]', '$tutorial_id', '$priorityNumber' ) ";
        mysql_query($queryA);
        $priorityNumber++;
    }
    //delete the request
    $query = "DELETE FROM request WHERE subject='$subject' AND topic='$topic' AND preferredDay='$date' AND preferredTime='$time' ";
    $resul t = mysql_query($query);
    echo "<br>message: the students involved in the 'TUTORIAL REQUEST' were automatically enlisted.<br><br>";
    unset($requestIdToApproveH);
}
if($requestIdToDi sapproveH != ""){
    connect_Db();
    $query = "SELECT subject, topic, preferredDay, preferredTime FROM request WHERE request_id='$requestIdToDi sapproveH' ";
    $resul t = mysql_query($query);
    $myrow = mysql_fetch_row($resul t);
    // $queryA = "DELETE FROM request WHERE subject='$myrow[0]' AND topic='$myrow[1]' AND preferredDay='$myrow[2]' AND preferredTime='$myrow[3]'
";
    $queryA = "UPDATE request SET request_id='0' WHERE subject='$myrow[0]' AND topic='$myrow[1]' AND preferredDay='$myrow[2]' AND
preferredTime='$myrow[3]' ";
    $resul tA = mysql_query($queryA);
    echo "message: the specified TUTORIAL REQUEST was DI SAPPROVED.<br><br>";
}
if($requestIdToApproveH != ""){
    connect_Db();
    $query = "SELECT subject.subjectName, request.subject, request.topic, request.preferredDay, request.preferredTime, request.preferredTutor
FROM subject, request WHERE request.request_id='$requestIdToApproveH' AND request.subject.subject_id=";
    $resul t = mysql_query($query);
    if(mysql_num_rows($resul t) == 0){
        echo "error: the request that you were about to APPROVE is now missing. There are two possible scenarios that might have caused
this:<br>";
        echo $tabS."1. the original author of the request CANCELLED it.<br>";
        echo $tabS."2. another ONLINE administrator APPROVED the request. You can verify this in the 'Tutor Schedule' tab.<br><br>";
        return false;
    }
    $myrow = mysql_fetch_row($resul t);
    echo "<table border='1'>";
    echo "<tr><td colspan='2' align='center'>New Tutorial Details</td></tr>";
    echo "<tr><td>Subject</td><td>$myrow[0]</td></tr>";
    echo "<tr><td>Topic</td><td>";
    $topicArray = explode(" ", $myrow[2]);
    foreach($topicArray AS $topicArrayElem){
        $queryA = "SELECT topicName FROM topic WHERE topic_id='$topicArrayElem' ";
        $resul tA = mysql_query($queryA);
        $myrowA = mysql_fetch_row($resul tA);
        echo "$myrowA[0]<br>";
    }
    echo "</td></tr>";
    $prefTutor = $myrow[3];
    $requestedDateForDi splay = reformatDateForDi splay($myrow[3]);
    $requestedDateForDi splayArray = explode(" ", $requestedDateForDi splay);
    echo "<tr><td>Date</td><td>$requestedDateForDi splay</td></tr>";
    echo "<tr><td>Time</td><td>".reformatTimeForDi splay($myrow[4])."</td></tr>";
    echo "</table>";

    //di splay available tutors...
    echo "<br><table border='1'>";
    echo "<thead>";
    echo "<tr><th colspan='2'>Available Tutors</th>";
    echo "<tr><td align='center' colspan='7'>Available Tutor</td></tr>";
    $availableTutorColumnName = array(' ', 'Mobile Phone', 'Land Phone', 'Email Address', 'Tutor Type', 'Course/Department');
    echo "<tr>";
    foreach($availableTutorColumnName AS $availableTutorColumnNameElem){
        echo "<td align='center'>$availableTutorColumnNameElem</td>";
    }
    echo "</tr>";
    echo "<tbody>";
    echo "<tr><td colspan='7'>";
    echo "<input type='hidden' name='requestIdToApproveH' value='$requestIdToApproveH' />";
    echo "<input type='hidden' name='subject' value='$myrow[1]' />";
    echo "<input type='hidden' name='topic' value='".implode(" ", $topicArray)."' />";
    echo "<input type='hidden' name='time' value='$myrow[4]' />";
    echo "<input type='hidden' name='date' value='$myrow[3]' />";
    $queryA = "SELECT CONCAT(tutor.firstName, ' ', tutor.middleName, ' ', tutor.lastName) AS fullName, tutor.mobilePhone, tutor.landPhone,
tutor.email, tutor.tutorType, tutor.deptCourse, tutor.schedule.preferredTime, tutor.tutor_id FROM tutor, tutor_schedule WHERE
tutor.tutor_id=tutor_schedule.tutor_id AND (tutor_schedule.preferredTime LIKE '$requestedDateForDi splayArray[0]' OR tutor_schedule.preferredTime LIKE
'$requestedDateForDi splayArray[1]' OR tutor_schedule.preferredTime LIKE '$requestedDateForDi splayArray[2]' OR tutor_schedule.preferredTime LIKE
'$requestedDateForDi splayArray[3]') AND (tutor.tutoredSubject LIKE '$myrow[1]' OR tutor.tutoredSubject LIKE '$myrow[1]%' OR
tutor.tutoredSubject LIKE '% $myrow[1]' OR tutor.tutoredSubject LIKE '$myrow[1]%' ) ";
    $resul tA = mysql_query($queryA);
    while($myrowA = mysql_fetch_row($resul tA)){
        if($requestedTimeInterval(implode(" ", $myrowA[6]), explode(" ", $myrowA[4]))){
            //filter out tutor_id's with a SIMILAR tutorial_id...
            $queryB = "SELECT t.tutorial_id FROM tutorial AS t, request AS r WHERE r.request_id='$requestIdToApproveH' AND t.tutor_id='$myrowA[7]'
AND t.subject=subject AND t.topic=r.topic AND t.time=r.preferredTime AND t.date=r.preferredDay ";
            $resul tB = mysql_query($queryB);
            if(mysql_num_rows($resul tB) > 0){
                continue;
            }
        }
        //avoid double posting of tutor_id...
        if(isset($di splayedTutorId)&&(in_array($myrowA[7], $di splayedTutorId)){
            continue;
        }
        $di splayedTutorId[] = $myrowA[7];
        echo "<tr>";
        if($prefTutor == $myrowA[7]){
            echo "<td><input type='radio' name='tutorForTheTutorial' value='$myrowA[7]' checked='checked' /></td>";
        }
        else{
            echo "<td><input type='radio' name='tutorForTheTutorial' value='$myrowA[7]' /></td>";
        }
        echo "<td>$myrowA[0]</td>";
        echo "<td>$myrowA[1]</td>";
        echo "<td>$myrowA[2]</td>";
        echo "<td>$myrowA[3]</td>";
        echo "<td>";
        if($myrowA[4] == 'p'){
            echo "peer";
            $queryB = "SELECT degreeProgramName FROM degree_programs WHERE degreeProgram_id='$myrowA[5]' ";
        }
        else{
            echo "faculty";
            $queryB = "SELECT departmentName FROM upm_departments WHERE department_id='$myrowA[5]' ";
        }
        echo "</td>";
    }
}

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        $myrowB = mysql_fetch_row(mysql_query($queryB));
        echo "<td>$myrowB[0]</td>";
    }
}
echo "<tr><td colspan='7' align='center'><input type='submit' value='set tutorial' />";
echo "<input type='approve' onclick='return sendRequestToDiApprove('$requestToDiApproveH')'>di approve</button>";
echo "</td></tr>";
echo "</form>";
echo "</table>";
echo "<form name='approveTutorialRequestForm' action='?acti veNav=$acti veNav&acti veTab=$acti veTab' method='POST' style='position: inline;'>";
echo "<input type='hidden' name='requestToDiApproveH' value=''/>";
echo "</form>";
}
else{
//form for sorting the table...
if(isset($direction)){
    $direction = "DESC";
}
echo "<form name='availabl eTutorialRequestSortForm' method='POST' action='?acti veNav=$acti veNav&acti veTab=$acti veTab' style='display: none;'>";
echo "<input type='hidden' name='column' value='\$column' />";
echo "<input type='hidden' name='direction' value='\$direction' />";
echo "</form>";

echo "<table width='100%'>";
echo "<tr><td align='center' bgcolor='#D3F2D3'>Tutorial Requests</td></tr>";
echo "</table>";
connect_Db();
//query = "SELECT request.request_id, subject.subjectName, request.topic, request.preferredDay, request.preferredTime, request.requestDate, count(*) FROM subject, request WHERE subject.subject_id=request.subject GROUP BY request.subject, request.topic, request.preferredDay, request.preferredTime";
if($column == "request.request_id"){
    //query = "SELECT request.request_id, subject.subjectName, request.topic, request.preferredDay, request.preferredTime, request.requestDate, count(*) IF(LOCATE('[', request.topic)=0,'any', CONCAT(t.firstName, ' ', t.middleName, ' ', t.lastName)) FROM subject, request LEFT JOIN tutor AS t ON (t.tutor_id=REPLACE(SUBSTR(ING(request.topic, LOCATE('[', request.topic) + 1), '])) WHERE subject.subject_id=request.subject GROUP BY request.subject, request.topic, request.preferredDay, request.preferredTime ORDER BY $column $direction";
}
else{
    $query = "SELECT request.request_id, subject.subjectName, request.topic, request.preferredDay, request.preferredTime, request.requestDate, count(*), CONCAT(t.firstName, ' ', t.middleName, ' ', t.lastName) AS tutorFullName FROM subject, request LEFT JOIN tutor AS t ON (t.tutor_id=request.preferredTutor) WHERE subject.subject_id=request.subject AND request.request_id > 0 AND request.preferredDay > CURDATE() GROUP BY request.subject, request.topic, request.preferredDay, request.preferredTime ORDER BY $column $direction";
}
else{
    $query = "SELECT request.request_id, subject.subjectName, request.topic, request.preferredDay, request.preferredTime, request.requestDate, count(*), CONCAT(t.firstName, ' ', t.middleName, ' ', t.lastName) AS tutorFullName FROM subject, request LEFT JOIN tutor AS t ON (t.tutor_id=request.preferredTutor) WHERE subject.subject_id=request.subject AND request.request_id > 0 AND request.preferredDay > CURDATE() GROUP BY request.subject, request.topic, request.preferredDay, request.preferredTime ORDER BY subject.subjectName";
}
}
//echo "[ $query ]";
$result = mysql_query($query);
if(mysql_num_rows($result) > 0){
    echo "<div style='height: auto; width: 100%; overflow: scroll;'>";
    echo "<table id='tutorialRequestTable' border='1'>";
    echo "<form name='approveTutorialRequestForm' action='?acti veNav=$acti veNav&acti veTab=$acti veTab' method='POST'>";
    //echo "<tr><td><td align='center'>Quantity<br>of requests</td><td align='center'>Subject</td><td align='center'>Preferred Day</td><td align='center'>Date Requested<br>year-mo-day hr-min-sec</td></tr>";
    $availabl eTutorialRequestColumnNames = array(' &nbsp; ', 'Quantity<br>of requests', 'Subject', 'Preferred Day', 'Preferred Time', 'Preferred Tutor', 'Date Requested<br>year-mo-day hr-min-sec');
    $availabl eTutorialRequestColumnNamesDb = array(' ', 'Quantity<br>of requests', 'subject.subjectName', 'Topic', 'request.preferredDay', 'request.preferredTime', 'tutorFullName', 'request.requestDate');
    echo "<tr>";
    for($z = 0; $z < count($availabl eTutorialRequestColumnNames); $z++){
        echo "<td align='center'>";
        if(($z == 2) || (($z >= 4) && ($z <= 7))){
            echo "<a href='javascript: void availabl eTutorialRequestSortJs('\$availabl eTutorialRequestColumnNamesDb[$z]\')' style='text-decoration: none; color: blue;'>";
            echo "$availabl eTutorialRequestColumnNames[$z]";
            if($availabl eTutorialRequestColumnNamesDb[$z] == $column){
                echo "&nbsp;";
                if($direction == "ASC"){
                    echo "&#593";
                }
                else{
                    echo "&#595";
                }
            }
            echo "</a>";
        }
        else{
            echo "$availabl eTutorialRequestColumnNames[$z]";
        }
        echo "</td>";
    }
    echo "</tr>";
    while($myrow = mysql_fetch_row($result)){
        $topicArray = explode(", ", $myrow[2]);
        echo "<tr><td>";
        echo "<button id='buttonToLink' name='approve' onclick='return sendRequestToDiApprove('$myrow[0]')' onMouseOver='return cursorForButtonToLink(this)'>approve</button>";
        echo "<button id='buttonToLink' name='approve' onclick='return sendRequestToDiApprove('$myrow[0]')' onMouseOver='return cursorForButtonToLink(this)'>di approve</button>";
        echo "</td>";
        echo "<td align='center'>$myrow[6]</td>";
        echo "<td>$myrow[1]</td>";
        echo "</td>";
        foreach($topicArray AS $topicArrayElem){
            if(strpos($topicArrayElem, "[") == false){
                $queryA = "SELECT topicName FROM topic WHERE topic_id='$topicArrayElem' ";
                $resultA = mysql_query($queryA);
                $myrowA = mysql_fetch_row($resultA);
                echo "$myrowA[0]<br>";
            }
        }
        echo "</td>";
        echo "<td>".reformatDateForDisplay($myrow[3]). "</td><td>".reformatTimeForDisplay($myrow[4]). "</td>";
        echo "<td>$myrow[7]</td>";
        echo "<td>$myrow[5]</td></tr>";
    }
    echo "<input type='hidden' name='requestToDiApproveH' value=''/>";
    echo "<input type='hidden' name='requestToDiApproveH' value=''/>";
    echo "</form>";
    echo "</table>";
    echo "</div>";
}
else{
    echo "<table width='100%'>";
    echo "<tr><td align='center'>no records</td></tr>";
    echo "</table>";
}
}
}
}
//function requestedTimeInterval($tutorTime, $requestTime){
//echo "<br>[ '$tutorTime[0]', '$tutorTime[1]', '$requestTime[0]', '$requestTime[1]' ]";
$upperLess = false;
$lowerMore = false;

```



```

else{
    $queryA = "SELECT COUNT(student_number) FROM attendance WHERE tutorial_id='$myrow[0]' ";
    $resultA = mysql_query($queryA);
    $myrowA = mysql_fetch_row($resultA);
    echo "message: the specified tutorial schedule can not be cancelled because our records show that $myrowA[0] proving that the tutorial
actually took place. You may verify this information from a STAFF.<br><br>";
}
}
echo "<form name='newTutorialScheduleForm' action='?activeNav=$activeNav&activeTab=$activeTab' method='POST' >";
echo "<input type='submit' name='newTutorialScheduleSubmit' value='create new tutorial schedule' >";
echo "</form>";
echo "<table width='100%' >";
echo "<tr><td align='center' bgcolor='#D3F2D3'>Tutorial Schedules</td></tr>";
echo "</table>";
connect_Db();
$query = "SELECT DISTINCT(tutorial.tutorial_id, subject.subjectName, tutorial.topic, tutorial.date, tutorial.time, CONCAT(tutor.firstName,
, tutor.middleName, ' ', tutor.lastName) AS tutorFullName, tutor.tutorType, tutor.tutorId, a.student_number, COUNT(e.student_number) FROM
subject, tutorial LEFT JOIN attendance AS a ON (tutorial.tutorial_id=a.tutorial_id) LEFT JOIN enrollment AS e ON
(tutorial.tutorial_id=e.tutorial_id) WHERE tutorial.tutorial_id=tutor.tutor_id AND tutorial.subject=subject.subject_id GROUP BY
tutorial.tutorial_id ORDER BY tutorial.date ASC ";
//query = "SELECT tutorial.tutorial_id, subject.subjectName, tutorial.topic, tutorial.date, tutorial.time, CONCAT(tutor.firstName, ' ',
tutor.middleName, ' ', tutor.lastName) AS tutorFullName, tutor.tutorType, tutor.tutorId, a.student_number, COUNT(e.student_number) FROM
tutorial, tutorial_id=tutor.tutor_id AND tutorial.subject=subject.subject_id ";
$result = mysql_query($query);
if(mysql_num_rows($result) > 0){
    $tutorialScheduleCount = 0;
    while($myrow = mysql_fetch_row($result)){
        //check if ATTENDANCE is already signed
        if($myrow[8] != ""){
            continue;
        }
        //check if TUTORIAL SCHEDULE is flagged as CANCELLED...
        if($myrow[9] > 0){
            $queryA = "SELECT student_number FROM enrollment WHERE priorityNumber='0' AND tutorial_id='$myrow[0]' LIMIT 0, 1 ";
            $resultA = mysql_query($queryA);
            if(mysql_num_rows($resultA) > 0){
                continue;
            }
        }
        $tutorialScheduleCount++;
        if($tutorialScheduleCount == 1){
            echo "<div style='height:auto; width:100%; overflow:scroll;' >";
            echo "<table id='tutorialScheduleTable' border='1' width='100%' >";
            echo "<form name='cancelTutorialScheduleForm' action='?activeNav=$activeNav&activeTab=$activeTab' method='POST' >";
            echo "<tr>";
            $tutorialScheduleColNames = array('enrollment', 'subject', 'Topic', 'Date', 'Tutor', 'Course/Department');
            foreach($tutorialScheduleTableColNames AS $tutorialScheduleTableColNamesEl){
                echo "<td align='center'>$tutorialScheduleTableColNamesEl</td>";
            }
            echo "</tr>";
            if($myrow[9] >= $maxTutorialEnlistees){
                echo "<tr style='background-color:#FFFF80;' >";
            }
            else{
                echo "<tr>";
            }
            echo "<td>";
            echo "<button id='buttonToLink' onClick='return sendTutorialToCancel($myrow[0])' onMouseOver='return
cursorForButtonToLink(this)'>cancel</button>";
            echo "<button id='buttonToLink' onClick='return sendTutorialToManage($myrow[0])' onMouseOver='return
cursorForButtonToLink(this)'>manage</button>";
            echo "</td>";
            echo "<td align='center'>$myrow[9]";
            //show if the enrollment has wait listed students...
            if($myrow[9] > $maxTutorialEnlistees){
                echo "&nbsp; (" . ($myrow[9] - $maxTutorialEnlistees) . " wait listed)";
            }
            echo "<td>$myrow[1]</td>";
            echo "<td>";
            foreach(explode(" ", $myrow[2]) AS $topicArrayEl){
                $queryA = "SELECT topicName FROM topic WHERE topic_id='$topicArrayEl' ";
                $resultA = mysql_query($queryA);
                $myrowA = mysql_fetch_row($resultA);
                echo "$myrowA[0]<br>";
            }
            echo "</td>";
            echo "<td>". reformatDateForDisplay($myrow[3]). "</td>";
            echo "<td>". reformatTimeForDisplay($myrow[4]). "</td>";
            echo "<td>$myrow[5]</td>";
            echo "<td>";
            if($myrow[6] == 'p'){
                echo "(peer) &nbsp;";
                $queryA = "SELECT degreeProgramName FROM degree_programs WHERE degreeProgram_id='$myrow[7]' ";
            }
            else{
                echo "faculty<br>";
                $queryA = "SELECT departmentName FROM upm_departments WHERE department_id='$myrow[7]' ";
            }
            $resultA = mysql_query($queryA);
            $myrowA = mysql_fetch_row($resultA);
            echo "$myrowA[0]";
            echo "</td></tr>";
        }
        if($tutorialScheduleCount != 0){
            echo "<input type='hidden' name='tutorialToCancelH' value=' ' />";
            echo "<input type='hidden' name='tutorialToManageH' value=' ' />";
            echo "</form>";
            echo "</table>";
            echo "</div>";
        }
        else{
            echo "<table width='100%' >";
            echo "<tr><td align='center'>no records</td></tr>";
            echo "</table>";
        }
        else{
            echo "<table width='100%' >";
            echo "<tr><td align='center'>no records</td></tr>";
            echo "</table>";
        }
    }
}
}
}
////////////////////////////////////
function reformatTimeForDisplay($time){
    $timeArray = explode("-", $time);
    $index = 0;
    foreach($timeArray AS $timeArrayEl){
        //filter seconds if it exists...
        if(strlen($timeArrayEl) == 8){
            $s = ":", substr($timeArrayEl, 6);
            $timeArrayEl = substr($timeArrayEl, 0, 5);
        }
        $timeExt = "AM";
        $timeArrayElArray = explode(":", $timeArrayEl);
        if(substr($timeArrayElArray[0], 0, 1) == "0"){
            $timeArrayElArray[0] = substr($timeArrayElArray[0], 1, 1);

```



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    }
    if($timeArrayElementArray[0] > 11){
        $timeExt = 'PM';
    }
    if($timeArrayElementArray[0] > 12){
        $timeArrayElementArray[0] = $timeArrayElementArray[0] - 12;
    }
    $timeArray[$index] = implode(":", $timeArrayElementArray). "$s " . $timeExt;
    $index++;
}
return implode("-", $timeArray);
}
////////////////////////////////////
function reformatDateForDisplay($date){
    $dateArray = explode("-", $date);
    $dateUnix = mktime("0", "0", $dateArray[1], $dateArray[2], $dateArray[0]);
    return date("F j, Y", $dateUnix);
}
////////////////////////////////////
function manage_Exam_Schedule(){
    foreach($GLOBALS as $key=>$value){
        //print "\$GLOBALS["$key"] = $value<br>";
        if (ereg("[a-z]", $key[0], $array )) {
            //print "\$GLOBALS["$key"] = $value<br>";
            global $$key;
        }
    }
    if($newBatchScheduleSubmit == 'save'){
        connect_Db();
        if(strlen($month) == 1){
            $month = "0" . $month;
        }
        if(strlen($day) == 1){
            $day = "0" . $day;
        }
        $query = "INSERT INTO batch VALUES ('" . get_next_id('batch_id', 'batch') . "', '$exam_id', '$year-$month-$day', '$exam_time', '$discussions_time', '$available_slots', 'open', '$term', '$syFrom-$syTo') ";
        $result = mysql_query($query);
        echo "message: the new batch schedule was successfully recorded.<br><br>";
    }
    if($editBatchScheduleSubmit == 'apply changes'){
        connect_Db();
        $query = "UPDATE batch SET available_slots=' $available_slots' WHERE batch_id = '$batch_idH' ";
        $result = mysql_query($query);
        echo "message: the available slots for the specified batch was updated successfully.<br><br>";
    }
    //delete batch id to cancel
    if(isset($batchScheduleIdToCancelH) && ($batchScheduleIdToCancelH != "")){
        connect_Db();
        $query = "DELETE FROM registration WHERE batch_id=' $batchScheduleIdToCancelH' ";
        $result = mysql_query($query);
        $query = "DELETE FROM batch WHERE batch_id=' $batchScheduleIdToCancelH' ";
        $result = mysql_query($query);
        echo "message: The specified batch schedule was cancelled.<br><br>";
    }
    if(isset($examToScheduleFromBrowse)){
        displayExamDetailsAndBatch($examToScheduleFromBrowse, false, '');
    }
}
else{
    echo "<form name='addNewExamSchedule' action='?activeNav=SactiveNav&activeTab=Search Exam&redirectedFromExamSchedule=yes' method='POST' >";
    echo "<input type='submit' name='addNewExamScheduleSubmit' value='new exam schedule' />";
    echo "</form>";
    echo "<table width='100%' >";
    echo "<tr><td align='center'>LIST OF EXAM SCHEDULES</td></tr>";
    //display exams with batches...
    connect_Db();
    $query = "SELECT DISTINCT(exam.exam_id) FROM exam, batch WHERE exam.exam_id=batch.exam_id AND batch.accessibility='open' ";
    $result = mysql_query($query);
    if(mysql_num_rows($result) > 0){
        echo "<tr><td></td></tr>";
        while($myrow = mysql_fetch_row($result)){
            echo " ";
            displayExamDetailsAndBatch($myrow[0], true, '');
            echo "<br>";
        }
    }
    else{
        echo "<tr><td align='center'>no records</td></tr>";
    }
    echo "</table>";
}
}
////////////////////////////////////
function displayExamDetailsAndBatch($examToDisplay, $addNewBatchButtonVisible, $batchScheduleToSynchronizeOut){
    foreach($GLOBALS as $key=>$value){
        //print "\$GLOBALS["$key"] = $value<br>";
        if (ereg("[a-z]", $key[0], $array )) {
            //print "\$GLOBALS["$key"] = $value<br>";
            global $$key;
        }
    }
    //for 'administer exam'...
    connect_Db();
    if($activeTab == 'Administer Exam'){
        $query = "SELECT student_number FROM registration WHERE batch_id=' $batchScheduleToSynchronizeOut' AND authorization='yes' ";
        $result = mysql_query($query);
        if(mysql_num_rows($result) > 0){
            displayStopButton = true;
        }
        else{
            displayStopButton = false;
        }
    }
    echo "<table id='examDetailsAndBatchTable' width='100%' cellpadding='0' cellspacing='0' >";
    echo "<tr><td id='examScheduleDarkRow' align='center' style='border-bottom: 1px solid #008000;'>Exam Details</td></tr>";
    //print exam details
    echo "<tr><td align='left' >";
    echo "<table id='examInfo' cellpadding='1' cellspacing='0' >";
    $examDetailsColumnNameDisplay[] = "Exam ID";
    $examDetailsColumnNameDisplay[] = "Subject Name";
    $examDetailsColumnNameDisplay[] = "Description";
    $examDetailsColumnNameDisplay[] = "Author";
    $examDetailsColumnNameDisplay[] = "Allotted Time";
    $examDetailsColumnNameDisplay[] = "Date Created";
    $examDetailsColumnNameDisplay[] = "Departmental Number";
    $query = "SELECT exam.exam_id, subject.subjectName, exam.description, exam.author, exam.allottedTime, exam.dateCreated, exam.deptNum FROM exam, subject WHERE exam.exam_id=' $examToDisplay' AND exam.subject_id=subject.subject_id ";
    $result = mysql_query($query);
    $myrow = mysql_fetch_row($result);
    for($i = 0; $i < count($examDetailsColumnNameDisplay); $i++){
        if($i == count($examDetailsColumnNameDisplay) - 1){
            echo "<tr><td id='examInfoBottomFalse'>$examDetailsColumnNameDisplay[$i]</td><td id='examInfoBottomFalse'>$myrow[$i]</td></tr>";
        }
        else{
            echo "<tr><td id='examInfoBottomTrue'>$examDetailsColumnNameDisplay[$i]</td><td id='examInfoBottomTrue'>$myrow[$i]</td></tr>";
        }
    }
    $exam_id = $myrow[0];
    echo "</table>";
}

```



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else{
    $query = "UPDATE registration SET remainingTime = SEC_TO_TIME(TIME_TO_SEC(remainingTime) - $timeModText) WHERE
batch_id=$batchScheduleIdToAdministerH' AND (.implode(" OR ", $studentNumberArray).) ";
}
//echo "$query";
$result = mysql_query($query);
//perform clipping operations...
$query = "UPDATE registration SET remainingTime = '000000' WHERE batch_id=$batchScheduleIdToAdministerH' AND (.implode(" OR ",
$studentNumberArray).) AND TIME_TO_SEC(remainingTime) < 0 ";
$result = mysql_query($query);
$query = "UPDATE registration SET remainingTime = '245959' WHERE batch_id=$batchScheduleIdToAdministerH' AND (.implode(" OR ",
$studentNumberArray).) AND TIME_TO_SEC(remainingTime) > 89999 ";
$result = mysql_query($query);
echo "message: the time modifications were successfully applied.<br><br>";
break;
case 'resume':
    connect_Db();
    //get the MAX(remainingTime)
    $query = "SELECT remainingTime FROM registration WHERE batch_id=$batchScheduleIdToAdministerH' ORDER BY remainingTime DESC ";
    $result = mysql_query($query);
    $myrow = mysql_fetch_row($result);
    $maxRemainingTime = $myrow[0];
    if($maxRemainingTime < "00:00:00"){
        $maxRemainingTime = "00:00:00";
    }
    //reset the registration of the students...
    $query = "UPDATE registration SET remainingTime=$maxRemainingTime, status='answerng', offense='none', previousTimeStamp=NOW() WHERE
batch_id=$batchScheduleIdToAdministerH' ";
    $result = mysql_query($query);
    echo "message: the examination was successfully resumed.<br><br>";
    break;
case 'close':
    echo "CLOSED";
    break;
default:
    break;
}
}
//filter registrants who already took a similar exam...
if(($registerStudentForBatchSubmit == "register")||($registerLateStudentForBatchSubmit == "register")){
    connect_Db();
    $queryA = "SELECT e.subject_id, e.deptNum, b.term, b.sy FROM batch AS b, exam AS e WHERE b.batch_id=$batchScheduleIdToAdministerH' AND
b.exam_id=e.exam_id";
    $resultA = mysql_query($queryA);
    $myrowA = mysql_fetch_row($resultA);
    $queryA = "SELECT r.batch_id, b.accessibility FROM registration AS r, batch AS b, exam AS e WHERE r.student_number=$studentNumberYear-
$studentNumberNumber' AND r.batch_id=b.batch_id AND b.exam_id=e.exam_id AND e.subject_id=$myrowA[0]' AND e.deptNum=$myrowA[1]' AND
b.term=$myrowA[2]' AND b.sy=$myrowA[3] ";
    $resultA = mysql_query($queryA);
    if(mysql_num_rows($resultA) > 0){
        $myrowA = mysql_fetch_row($resultA);
        if($myrowA[1] == "closed"){
            echo "error: the registration for student $studentNumberYear-$studentNumberNumber is invalid because he/she already took a similar
exam.<br><br>";
        }
        else{
            if($myrowA[0] == $batchScheduleIdToAdministerH'){
                echo "error: student $studentNumberYear-$studentNumberNumber is already registered for this Exam Batch Schedule.<br><br>";
            }
            else{
                echo "error: the registration for student $studentNumberYear-$studentNumberNumber is invalid because he/she is currently registered
in a similar exam.<br><br>";
            }
        }
        unset($registerStudentForBatchSubmit);
        unset($registerLateStudentForBatchSubmit);
    }
}
if($registerStudentForBatchSubmit == "register"){
    connect_Db();
    $query = "SELECT student_number FROM student WHERE student_number=$studentNumberYear-$studentNumberNumber' ";
    $result = mysql_query($query);
    if(mysql_num_rows($result) > 0){
        //determine if student_number is already registered...
        $query = "SELECT batch_id FROM registration WHERE batch_id=$batchScheduleIdToAdministerH' AND student_number=$studentNumberYear-
$studentNumberNumber' ";
        $result = mysql_query($query);
        if(mysql_num_rows($result) == 0){
            //get the available time
            $query = "SELECT exam.allottedTime FROM exam, batch WHERE exam.exam_id=batch.exam_id AND batch.batch_id=$batchScheduleIdToAdministerH'
";
            $result = mysql_query($query);
            $myrow = mysql_fetch_row($result);
            $allottedTime = $myrow[0];
            $query = "INSERT INTO registration VALUES ('$batchScheduleIdToAdministerH', '$studentNumberYear-$studentNumberNumber', '', date("Y-m-d
H:i:s", 'time() - $allottedTime', 'submited', 'waiting', 'no', 'none', 'time() - $allottedTime - $studentNumberYear-$studentNumberNumber' );
            $result = mysql_query($query);
            echo "message: student $studentNumberYear-$studentNumberNumber is now registered.<br><br>";
            //get remaining slots
            $query = "SELECT availableSlots FROM batch WHERE batch_id=$batchScheduleIdToAdministerH' ";
            $result = mysql_query($query);
            $myrow = mysql_fetch_row($result);
            $availableSlots = $myrow[0];
            $query = "SELECT COUNT(batch_id) FROM registration WHERE batch_id=$batchScheduleIdToAdministerH' ";
            $result = mysql_query($query);
            $myrow = mysql_fetch_row($result);
            $takenSlots = $myrow[0];
            //determine if student_number is already registered...
            $query = "SELECT batch_id FROM registration WHERE batch_id=$batchScheduleIdToAdministerH' AND student_number=$studentNumberYear-
$studentNumberNumber' ";
            $result = mysql_query($query);
            if(mysql_num_rows($result) == 0){
                //get his/her remaining time
                $query = "SELECT MIN(remainingTime) FROM registration WHERE batch_id=$batchScheduleIdToAdministerH' ";
                $result = mysql_query($query);
                $myrow = mysql_fetch_row($result);
            }
        }
        else{
            echo "error: student $studentNumberYear-$studentNumberNumber is already registered.<br><br>";
        }
    }
    else{
        echo "error: student $studentNumberYear-$studentNumberNumber does not exist.<br><br>";
    }
}
}
//allow late exam takers to take the exam however late students shall start with reduced 'remaining time
if($registerLateStudentForBatchSubmit == "register"){
    connect_Db();
    $query = "SELECT student_number FROM student WHERE student_number=$studentNumberYear-$studentNumberNumber' ";
    $result = mysql_query($query);
    if(mysql_num_rows($result) > 0){
        //determine if student_number is already registered...
        $query = "SELECT batch_id FROM registration WHERE batch_id=$batchScheduleIdToAdministerH' AND student_number=$studentNumberYear-
$studentNumberNumber' ";
        $result = mysql_query($query);
        if(mysql_num_rows($result) == 0){
            //get his/her remaining time
            $query = "SELECT MIN(remainingTime) FROM registration WHERE batch_id=$batchScheduleIdToAdministerH' ";
            $result = mysql_query($query);
            $myrow = mysql_fetch_row($result);
        }
    }
}

```

```

$mi nRemani ngTime = $myrow[0];
if($mi nRemani ngTime < "00:00:00"){
    $mi nRemani ngTime = "00:00:00";
}
//give him/her an instant registration
$query = "INSERT INTO registration VALUES ('$batchScheduleIdToAdministerH', '$studentNumberYear-$studentNumberNumber', '$date("Y-m-d
H:i:s', time())', '$mi nRemani ngTime', 'submitted', 'no', 'none', '$date("Y-m-d H:i:s', time())')";
$result = mysql_query($query);
echo "message: student $studentNumberYear-$studentNumberNumber is now registered.<br><br>";
//get remaining slots
$query = "SELECT availableSlots FROM batch WHERE batch_id='$batchScheduleIdToAdministerH' ";
$result = mysql_query($query);
$myrow = mysql_fetch_row($result);
$availableSlots = $myrow[0];
//get taken slots
$query = "SELECT COUNT(batch_id) FROM registration WHERE batch_id='$batchScheduleIdToAdministerH' ";
$result = mysql_query($query);
$myrow = mysql_fetch_row($result);
$takenSlots = $myrow[0];
if($availableSlots < $takenSlots){
    $query = "UPDATE batch SET availableSlots=availableSlots + 1 WHERE batch_id='$batchScheduleIdToAdministerH' ";
    $result = mysql_query($query);
    echo "message: an additional slot was added to the available slots.<br><br>";
}
//authorize to access the 'answer sheet'
/*
$query = "UPDATE registration SET authorization='yes' WHERE batch_id='$batchScheduleIdToAdministerH' AND
student_number='$studentNumberYear-$studentNumberNumber' ";
$result = mysql_query($query);
echo "message: student [$studentNumberYear-$studentNumberNumber] is now authorized to access the exam.<br><br>";
*/
}
else{
    echo "error: student $studentNumberYear-$studentNumberNumber is already registered.<br><br>";
}
}
else{
    echo "error: student $studentNumberYear-$studentNumberNumber does not exist.<br><br>";
}
}
echo "<form name='administerBatchSchedule' action='?activeNav=$activeNav&batchScheduleIdToAdministerH=$batchScheduleIdToAdministerH'
method='POST' >";
if($pageRefreshActivation == ""){
    $pageRefreshActivation = "disabled";
}
if($pageRefreshActivation == "disabled"){
    echo "<input type='button' name='activatePageRefresh' onclick='return pageRefreshFunction(\"enabled\")' value='enable automatic page
refresh' />";
}
else{
    echo "<input type='button' name='activatePageRefresh' onclick='return pageRefreshFunction(\"disabled\")' value='disable automatic page
refresh' />";
}
echo "<input type='hidden' name='pageRefreshActivation' value='\$pageRefreshActivation' />";
echo "</form>";

connect_Db();
$query = "SELECT exam_id FROM batch WHERE batch_id='$batchScheduleIdToAdministerH' ";
$result = mysql_query($query);
$myrow = mysql_fetch_row($result);
$examIdToAdminister = $myrow[0];
displayExamDetailsAndBatch($examIdToAdminister, true, $batchScheduleIdToAdministerH);
echo "<br>";
//determine if exam needs are 'authorized'
$query = "SELECT student_number FROM registration WHERE batch_id='$batchScheduleIdToAdministerH' AND authorization='yes' ";
$result = mysql_query($query);
if(mysql_num_rows($result) > 0){
    $answerSheetsDistributed = true;
}
else{
    $answerSheetsDistributed = false;
}
echo "<form name='listOfExamNeedsForm' action='?activeNav=$activeNav' method='POST' style='display:inline;' >";
echo "<table border='1' width='100%' style='border-bottom:0px;' >";
$query = "SELECT registration.student_number, CONCAT(student.first_name, ' ', student.middle_name, ' ', student.last_name) AS studentName,
SEC_TO_TIME((TIME_TO_SEC(registration.remainingTime) - TIME_TO_SEC(CURTIME())) + TIME_TO_SEC(DATE_FORMAT(registration.previousTimeStamp, '%T'))),
registration.status, registration.offense, registration.registrationDate, registration.registrationType FROM student, registration WHERE
registration.student_number=student.student_number AND registration.batch_id='$batchScheduleIdToAdministerH' ";
if($answerSheetsDistributed){
    $queryL = $query."AND registration.authorization='no' ORDER BY registration.student_number ASC ";
    $query = "AND registration.authorization='yes' ";
}
switch($direction){
    case 'DESC':
        $direction = 'ASC';
        $directionalCon = ' &#8595';
        break;
    case 'ASC':
        $direction = 'DESC';
        $directionalCon = ' &#8593';
        break;
    default:
        $direction = 'ASC';
        $directionalCon = ' ';
        break;
}
if($orderBy != ""){
    $query = "ORDER BY $orderBy $direction";
}
$result = mysql_query($query);
if(mysql_num_rows($result) > 0){
    //display control elements for the exam needs
    if($answerSheetsDistributed){
        echo "<tr><td align='center'>LIST OF EXAMINEES</td></tr>";
        echo "<tr><td align='left' style='border-bottom:0px;' >";
        echo "[&nbsp;]";
        echo "<button onclick='confirmExamNeedBlockUnblock(this.form, 2);'>block</button>";
        echo "<button onclick='confirmExamNeedBlockUnblock(this.form, 3);'>unblock</button>";
        echo [&nbsp;];
        echo [&nbsp;];
        //display remaining time modifier...
        echo [&nbsp;];
        echo "<select id='timeModSelId' name='timeModSel' onChange='timeModSelJav(this);' >";
        echo "<option value='00:05:00'>&nbsp;5 mins</option>";
        echo "<option value='00:10:00'>&nbsp;10 mins</option>";
        echo "<option value='00:15:00'>&nbsp;15 mins</option>";
        echo "<option value='00:20:00'>&nbsp;20 mins</option>";
        echo "<option value='00:25:00'>&nbsp;25 mins</option>";
        echo "<option value='00:30:00'>&nbsp;30 mins</option>";
        echo "<option value='>' type='text' />";
        echo "</select>";
        echo "<button id='timeModSelButtonId' onclick='hideDisplaySel()' style='display:none;' ></button>";
        echo "&nbsp;<input id='timeModTextId' type='text' name='timeModText' value='00:00:00' style='display:none;' size='8' maxlength='8'
/>&nbsp;";
        echo "<button onclick='confirmDec(this.form, 'inc');'>+ time</button>";
        echo "<button onclick='confirmDec(this.form, 'dec');'>- time</button>";
        echo "<button onclick='confirmDec(this.form, 'force');'>Force time</button>";
        echo [&nbsp;];
        echo [&nbsp;];
    }
}

```

```

        echo "&nbsp;";
        echo "<button onClick='\>confirmExamResume(this.s.form);\>resume</button>";
        echo "&nbsp;";
    }
    else{
        echo "<tr><td align='center'>REGISTRANTS</td></tr>";
        echo "<tr><td align='left' style='border-bottom:0px'>";
        echo "<button onClick='confirmExamneeAuthorize(this.s.form)'\>START</button>";
        echo "<button onClick='confirmExamneeRemove(this.s.form)'\>remove</button>";
    }
    echo "</td></tr>";
    echo "</table>";
    $checkUncheckButton = "<span id='checkAllButton'><button id='buttonToLink' onClick='checkUncheckAllExaminees(form, true)';
onMouseOver='return cursorForButtonToLink(this.s)'\>check all</button></span>";
    $checkUncheckButton = "<span id='uncheckAllButton' style='display:none'><button id='buttonToLink' onClick='checkUncheckAllExaminees(form,
false)'\>onMouseOver='return cursorForButtonToLink(this.s)'\>uncheck all</button></span>";
    $examineeTableColumnName = array($checkUncheckButton, 'Student Number', 'Student Name', 'Remaining Time hh:mm', 'Status', 'Offense',
'Registration Date', 'Registration Type');
    $columnNameOrderBy = array("","registration.student_number", "studentName", "registration.remainingTime", "registration.status",
"registration.offense", "registration.registrationDate", "registration.registrationType");
    echo "<div style='height:auto; width:100%; overflow:scroll;'>";
    echo "<table border='1' width='100%'>";
    echo "<tr>";
    for($i = 0; $i < count($examineeTableColumnName); $i++){
        if($i == 0){
            echo "<td align='center'>$examineeTableColumnName[$i]</td>";
        }
        else{
            if($columnNameOrderBy[$i] == $columnName){
                echo "<td align='center'><button id='buttonToLinkNoUnderline' onClick='orderListOfExaminees(this.s.form, '\$columnNameOrderBy[$i]'\>";
onMouseOver='return cursorForButtonToLink(this.s)'\>$examineeTableColumnName[$i]</td></td>";
            }
            else{
                echo "<td align='center'><button id='buttonToLinkNoUnderline' onClick='orderListOfExaminees(this.s.form, '\$columnNameOrderBy[$i]'\>";
onMouseOver='return cursorForButtonToLink(this.s)'\>$examineeTableColumnName[$i]</td></td>";
            }
        }
    }
    echo "</tr>";
    while($myrow = mysql_fetch_row($result)){
        echo "<tr onmouseover='\>setPointer(this.s)'\><td align='center'><input type='checkbox'
name='studentNumberArray[]' value='\$myrow[0]'\></td>";
        echo "<td align='center'><input type='checkbox' value='\$myrow[1]'\></td>";
        echo "<td align='center'><input type='checkbox' value='\$myrow[2]'\></td>";
        if($myrow[2] > "00:00:00"){
            echo substr($myrow[2], 0, 5);
        }
        else{
            echo "00:00";
        }
        echo "</td></td>";
        switch($myrow[3]){
            case 'waiting':
                $examineeStatusArray[] = 1;
                $examineeStatusColorStyle = "style='background-color:yellow'";
                $examineeStatusColorStyle = "style='background-color:#FFFF80'";
                break;
            case 'answering':
                $examineeStatusArray[] = 2;
                $examineeStatusColorStyle = "style='background-color:green'";
                $examineeStatusColorStyle = "style='background-color:#80FF80'";
                break;
            case 'blocked':
                $examineeStatusArray[] = 3;
                $examineeStatusColorStyle = "style='background-color:red'";
                $examineeStatusColorStyle = "style='background-color:#FF8080'";
                break;
            case 'finished':
                $examineeStatusArray[] = 4;
                $examineeStatusColorStyle = "style='background-color:white'";
                break;
            default:
                break;
        }
        echo "<td align='center'>$examineeStatusColorStyle</td></td>";
        echo "<td align='center'><input type='checkbox' value='\$myrow[4]'\></td>";
        $registrationDateArray = explode(" ", $myrow[5]);
        echo "<td align='center'><input type='checkbox' value='\$myrow[6]'\></td>";
        echo "</tr>";
    }
    echo "<input type='hidden' name='batchScheduleIdToAdministerH' value='\$batchScheduleIdToAdministerH'\>";
    echo "<input type='hidden' name='orderBy' value='\$orderBy'\>";
    echo "<input type='hidden' name='direction' value='\$direction'\>";
    echo "<input type='hidden' name='examineeStatus' value='\$implode(',', \$examineeStatusArray)'\>";
    echo "</form>";
    echo "</table>";
    echo "</div>";
}
else{
    echo "<tr><td align='center'>REGISTRANTS</td></tr>";
    echo "<tr><td align='center'>no record</td></tr>";
    echo "</table>";
}
//display LATE REGISTRANTS...
if($answerSheetsDisabled){
    $result = mysql_query($query);
    if(mysql_num_rows($result) > 0){
        echo "<form name='listOfExamineesForm' action='?activeNav=activeNav' method='POST' style='display:inline;'>";
        echo "<br><table border='1' width='100%' style='border-bottom:0px'>";
        echo "<tr><td align='center'>LATE REGISTRANTS</td></tr>";
        echo "<tr><td align='left' style='border-bottom:0px'>";
        echo "<button onClick='confirmExamneeAuthorizeL(this.s.form)'\>START</button>";
        echo "<button onClick='confirmExamneeRemoveL(this.s.form)'\>remove</button>";
        echo "</td></tr>";
        echo "</table>";
        echo "<div style='height:auto; width:100%; overflow:scroll;'>";
        echo "<table border='1' width='100%'>";
        echo "<tr>";
        for($i = 0; $i < count($examineeTableColumnName); $i++){
            if($i == 0){
                echo "<td align='center'>";
                echo "<span id='checkAllButtonL'><button id='buttonToLink' onClick='checkUncheckAllExamineesL(form, true)';
onMouseOver='return cursorForButtonToLink(this.s)'\>check all</button></span>";
                echo "<span id='uncheckAllButtonL' style='display:none'><button id='buttonToLink' onClick='checkUncheckAllExamineesL(form, false)';
onMouseOver='return cursorForButtonToLink(this.s)'\>uncheck all</button></span>";
                echo "</td>";
            }
            else{
                //echo "<td align='center'><font style='font-size:75%;'>$examineeTableColumnName[$i]</font></td>";
                echo "<td align='center'><button id='buttonToLinkNoUnderline' onClick='orderListOfExaminees(this.s.form, '\$columnNameOrderBy[$i]'\>";
onMouseOver='return cursorForButtonToLink(this.s)'\>$examineeTableColumnName[$i]</td></td>";
            }
        }
        echo "</tr>";
        while($myrow = mysql_fetch_row($result)){

```

```

name='studentNumberArray[]' val ue=' $myrow[0]' /></td>";
echo "<td align='center'><no> $myrow[0]</no></td>";
echo "<td align='center'><no> $myrow[1]</no></td>";
echo "<td align='center'><no>";
if($myrow[2] > "00:00:00"){
    echo substr($myrow[2], 0, 5);
}
else{
    echo "00:00";
}
echo "</no></td>";
switch($myrow[3]){
    case 'waiting':
        $examneeStatusArray[] = 1;
        $examneeStatusCol orStyle = "style=' background-color=yellow' ";
        $examneeStatusCol orStyle = "style=' background-color=#FFFF80' ";
        break;
    case 'answering':
        $examneeStatusArray[] = 2;
        $examneeStatusCol orStyle = "style=' background-color=green' ";
        $examneeStatusCol orStyle = "style=' background-color=#80FF80' ";
        break;
    case 'blocked':
        $examneeStatusArray[] = 3;
        $examneeStatusCol orStyle = "style=' background-color=red' ";
        $examneeStatusCol orStyle = "style=' background-color=#FF8080' ";
        break;
    case 'finished':
        $examneeStatusArray[] = 4;
        $examneeStatusCol orStyle = "style=' background-color=white' ";
        break;
    default:
        break;
}
echo "<td align='center' $examneeStatusCol orStyle><no> $myrow[3]</no></td>";
echo "<td align='center'><no> $myrow[4]</no></td>";
$registrarionDateArray = explode(" ", $myrow[5]);
", reformatTimeForDisplay($registrarionDateArray[1])."</no></td>";
echo "<td align='center'><no> $myrow[6]</no></td>";
echo "</tr>";
echo "<input type='hidden' name='batchScheduleIdToAdministerH' val ue=' $batchScheduleIdToAdministerH' />";
echo "<input type='hidden' name='orderBy' val ue=' $orderBy' />";
echo "<input type='hidden' name='direction' val ue=' $direction' />";
echo "<input type='hidden' name='action' val ue=' ' />";
echo "</form>";
echo "</table>";
echo "</div>";
}
}
//display register student for batch exam schedule
if(! $answerSheetsDisplayed){
    echo "<br><table border='1'>";
    echo "<form name='registerStudentForBatchForm' action='?activeNav=$activeNav' method='POST'>";
    echo "<tr><td colspan='2' align='center'>Register Student</td></tr>";
    echo "<tr><td>Student Number</td><td>";
    echo "<input type='text' maxLength='4' size='4' name='studentNumberYear' val ue=' ' onChange='return ensureInputIsInt(this, 4)'> - ";
    echo "<input type='text' maxLength='5' size='5' name='studentNumberNumber' val ue=' ' onChange='return ensureInputIsInt(this, 5)'>";
    echo "<input type='hidden' name='batchScheduleIdToAdministerH' val ue=' $batchScheduleIdToAdministerH' />";
    echo "</td></tr>";
    echo "<tr><td colspan='2' align='center'><input type='submit' name='registerStudentForBatchSubmit' val ue='register' /></td></tr>";
    echo "</form>";
    echo "</table>";
}
else{
    echo "<br><table border='1'>";
    echo "<form name='registerLateStudentForBatchForm' action='?activeNav=$activeNav' method='POST'>";
    echo "<tr><td colspan='2' align='center'>Register Late Student</td></tr>";
    echo "<tr><td>Student Number</td><td>";
    echo "<input type='text' maxLength='4' size='4' name='studentNumberYear' val ue=' ' onChange='return ensureInputIsInt(this, 4)'> - ";
    echo "<input type='text' maxLength='5' size='5' name='studentNumberNumber' val ue=' ' onChange='return ensureInputIsInt(this, 5)'>";
    echo "<input type='hidden' name='batchScheduleIdToAdministerH' val ue=' $batchScheduleIdToAdministerH' />";
    echo "</td></tr>";
    echo "<tr><td colspan='2' align='center'><input type='submit' name='registerLateStudentForBatchSubmit' val ue='register' /></td></tr>";
    echo "</form>";
    echo "</table>";
}
echo "<form name='administerBatchSchedule' action='?activeNav=$activeNav&activeTab=Exam Schedule' method='POST'>";
echo "<input type='submit' name='editTutor' val ue='back to main'>";
echo "</form>";
}
}
function manage_Password(){
    foreach($GLOBALS as $key=>$value){
        if (ereg("[a-z]", $key[0], $array) ){
            global $$key;
        }
    }
    if($adminPasswordSubmit == "change"){
        connect_Db();
        if($password != $passwordOld){
            echo "error: the supplied 'old password' does not match the one stored in the database.<br><br>";
        }
        else{
            if($passwordNew != $passwordNewR){
                echo "error: the 'new password' and the 'retyped new password' does not match.<br><br>";
            }
            else{
                $query = "UPDATE lrc_personnel SET password=' $passwordNew', username=' $usernameNew' WHERE username=' $username' AND password=' $password'";
                $result = mysql_query($query);
                if($username != $usernameNew){
                    echo "message: the 'new username' was successfully stored.<br><br>";
                }
                echo "message: the 'new password' was successfully stored.<br><br>";
                $username = $usernameNew;
                $password = $passwordNew;
                session_register("username");
                session_register("password");
            }
        }
    }
    echo "<table border='1'>";
    echo "<form name='adminPasswordForm' method='POST' action='?onSubmit='return adminPasswordCheck(this)'>";
    echo "<tr><td>username</td><td><input type='text' name='usernameNew' maxLength='16' size='16' val ue=' $username' /></td></tr>";
    echo "<tr><td>old password</td><td><input type='password' name='passwordOld' maxLength='16' size='16' /></td></tr>";
    echo "<tr><td>new password</td><td><input type='password' name='passwordNew' maxLength='16' size='16' /></td></tr>";
    echo "<tr><td>retype new password</td><td><input type='password' name='passwordNewR' maxLength='16' size='16' /></td></tr>";
    echo "<tr><td colspan='2' align='center'><input type='submit' name='adminPasswordSubmit' val ue='change' /></td></tr>";
    echo "</form>";
    echo "</table>";
}
}
function display_Tutor_Schedule(){
    global $activeTab;
    echo "<span id='tutorScheduleSpan'>";
    echo "<table id='tutorScheduleViewTable' border='1' cellpadding='2' cellspacing='1'>";
}

```



```

$result = mysql_query($query);
if(mysql_num_rows($result) == 0){
    $query = "SELECT MAX(priorityNumber) FROM enlistment WHERE tutorial_id=' $tutorialIdToManage' ";
    $result = mysql_query($query);
    $myrow = mysql_fetch_row($result);
    $query = "INSERT INTO enlistment VALUES (' $studentNumberToEnlistH', '$tutorialIdToManage', '', ($myrow[0] + 1). '' ) ";
    $result = mysql_query($query);
    echo "message: student ($studentNumberToEnlistH) is now enlisted in the tutorial schedule.<br><br>";
}
else{
    echo "error: student ($studentNumberToEnlistH) is already enlisted in the specified tutorial schedule.<br><br>";
}
if($studentNumberToDelistH != ""){
    $query = "DELETE FROM enlistment WHERE student_number=' $studentNumberToDelistH' AND tutorial_id=' $tutorialIdToManage' ";
    $result = mysql_query($query);
    echo "message: student ($studentNumberToDelistH) was successfully removed from the tutorial schedule.<br><br>";
}
$query = "SELECT s.subjectName, t.topic, t.date, t.time, tt.tutorType, CONCAT_WS(' ', tt.firstName, tt.middleName, tt.lastName),
tt.deptCourse, s.subject_id, tt.tutor_id FROM subject AS s, tutorial AS t, tutor AS tt WHERE t.subject=s.subject_id AND
t.tutorial_id=' $tutorialIdToManage' AND t.tutor_id=tt.tutor_id ";
$result = mysql_query($query);
$myrow = mysql_fetch_row($result);
echo "<form name='tutorialScheduleTutor' method='POST' action='?activeNav=$activeNav&activeTab=$activeTab' style='display:inline;'>";
echo "<table border='1'>";
echo "<tr><td colspan='2' align='center'>Tutorial Schedule Details</td></tr>";
echo "<tr><td>Subject</td><td>$myrow[0]</td></tr>";
echo "<tr><td>Topic</td><td>";
$tempArray = explode(" ", $myrow[1]);
for($i = 0; $i < count($tempArray); $i++){
    $queryA = "SELECT topicName FROM topic WHERE topic_id=' $tempArray[$i]' ";
    $resultA = mysql_query($queryA);
    $myrowA = mysql_fetch_row($resultA);
    echo "$myrowA[0]<br>";
}
echo "</td></tr>";
$tutorialScheduleTutor = $myrow[8];
$tutorialScheduleSubject = $myrow[7];
$tutorialScheduleTime = $myrow[3];
$requestedDateForDisplay = reformatDateForDisplay($myrow[2]);
$requestedDateForDisplayArray = explode(" ", $requestedDateForDisplay);
echo "<tr><td>Date</td><td>".reformatDateForDisplay($myrow[2])."</td></tr>";
echo "<tr><td>Time</td><td>".reformatTimeForDisplay($myrow[3])."</td></tr>";
if($saccomodateWaitingEnlisteesSubmit == ""){
    echo "<tr><td>";
    if($changeTutor == "yes"){
        echo "Tutor";
    }
    elseif($myrow[4] == "f"){
        echo "Faculty Tutor";
    }
    else{
        echo "Peer Tutor";
    }
    echo "</td><td>";
    if($changeTutor == "yes"){
        echo "please select below";
        $changeTutorFormSable = "disabled='disabled' ";
        $changeTutorTableHide = "style='display:none;' ";
    }
    else{
        echo "$myrow[5]&nbsp;";
        $tutorSubstitute = getTutorSubstitute($tutorialIdToManage);
        if(count($tutorSubstitute) > 0){
            echo "<input type='button' id='buttonToLink' onClick='return initiateChangeTutor(this.form)' onMouseOver='return
cursorForButtonToLink(this)' value='change' />";
            echo "<input type='hidden' name='tutorSubstitute' value='".implode(" ", $tutorSubstitute)."' />";
        }
        elseif(
cursorForButtonToLink(this)' value='change' disabled='";
        )
        echo "</td></tr>";
        echo "<tr><td>";
        if($myrow[4] == "f"){
            echo "Faculty Department";
        }
        else{
            echo "Peer Course";
        }
        if($myrow[4] == "f"){
            $queryA = "SELECT departmentName FROM upm_departments WHERE department_id=' $myrow[6]' ";
        }
        else{
            $queryA = "SELECT degreeProgramName FROM degree_programs WHERE degreeProgram_id=' $myrow[6]' ";
        }
        $resultA = mysql_query($queryA);
        $myrowA = mysql_fetch_row($resultA);
        echo "</td><td>$myrowA[0]</td></tr>";
    }
    else{
        echo "<tr><td>Tutor</td><td>please select from the 'Available Tutor' table</td></tr>";
    }
    echo "</table>";
    echo "<input type='hidden' name='changeTutor' value='' />";
    echo "<input type='hidden' name='tutorialIdToManage' value=' $tutorialIdToManage' />";
    if($changeTutor == "yes"){
        echo "<br><table border='1'>";
        echo "<tr><td align='center' colspan='7'>Available Tutor</td></tr>";
        $availableTutorColumnName = array(' ', 'Name', 'Mobile Phone', 'Land Phone', 'Email Address', 'Tutor Type', 'Course/Department');
        echo "<tr>";
        foreach($availableTutorColumnName AS $availableTutorColumnNameElement){
            echo "<td align='center'>$availableTutorColumnNameElement</td>";
        }
        echo "</tr>";
        $tutorSubstituteArray = explode(" ", $tutorSubstitute);
        foreach($tutorSubstituteArray AS $tutorSubstituteArrayElement){
            $queryAvailableTutor = "SELECT CONCAT(tutor.firstName, ' ', tutor.middleName, ' ', tutor.lastName) AS fullName, tutor.mobilePhone,
tutor.landPhone, tutor.email, tutor.tutorType, tutor.deptCourse, tutor.tutor_id FROM tutor WHERE tutor.tutor_id=' $tutorSubstituteArrayElement' ";
            $resultAvailableTutor = mysql_query($queryAvailableTutor);
            $myrowAvailableTutor = mysql_fetch_row($resultAvailableTutor);
            echo "<tr>";
            echo "<td><input type='radio' name='newTutorForTheTutorial' value=' $myrowAvailableTutor[6]' /></td>";
            echo "<td>$myrowAvailableTutor[0]</td>";
            echo "<td>$myrowAvailableTutor[1]</td>";
            echo "<td>$myrowAvailableTutor[2]</td>";
            echo "<td>$myrowAvailableTutor[3]</td>";
            echo "<td>";
            if($myrowAvailableTutor[4] == 'p'){
                echo "peer";
                $queryATDC = "SELECT degreeProgramName FROM degree_programs WHERE degreeProgram_id=' $myrowAvailableTutor[5]' ";
            }
            else{
                echo "faculty";
                $queryATDC = "SELECT departmentName FROM upm_departments WHERE department_id=' $myrowAvailableTutor[5]' ";
            }
        }
    }
}

```



```

while($myrowA = mysql_fetch_row($resultA)){
    if($requestedTimeSWInterval(explode("-", $myrowA[1]), explode("-", $tutorialSchedulePrefTime))){
        $queryB = "SELECT t.tutorial_id FROM tutorial AS t LEFT JOIN tutorial AS tt ON (tt.tutorial_id='TutorialIdToManage') WHERE
t.tutorial_id=$myrowA[0] AND t.subject=tt.subject AND t.topic=tt.topic AND t.time=tt.time AND t.date=tt.date ";
        $resultB = mysql_query($queryB);
        if(mysql_num_rows($resultB) == 0){
            $tutorSubstitute[] = $myrowA[0];
        }
    }
}
return $tutorSubstitute;
}
#####
function add_Student_List(){
    foreach($GLOBALS as $key=>$value){
        if (ereg("[a-z]", $key[0], $array )){
            global $$key;
        }
    }
    connect_Db();
    if(!isset($studentCount)){
        $studentCount = 1;
    }
    if($process == "addNewRow"){
        $studentCount++;
        $process = "";
    }
    if($process == "saveStudentList"){
        //save the values to student database
        for($i = 0; $i < $studentCount; $i++){
            eval('$studentNumberYear_' . $i . ' = "studentNumberYear_' . $i . '";');
            $rowVars = array("studentNumber_{$i}", "firstName_{$i}", "middleName_{$i}", "lastName_{$i}", "course", "college", "mobilePhone_{$i}",
"landPhone_{$i}", "email_{$i}", "password_{$i}");
            $rowVarsStr = implode(" ", $rowVars);
            $rowVarsStr = '\ $rowVarsStr, "active"';
            //eval('$query = "INSERT INTO student (student_number, lastName, middleName, firstName, mobilePhone, landPhone, email, password) VALUES
(' . $rowVarsStr . ')";');
            eval('$query = "INSERT INTO student VALUES (' . $rowVarsStr . ')";');
            $result = mysql_query($query);
            //unset the form elements.
            $rowVars = array("studentNumberYear_{$i}", "studentNumberNumber_{$i}", "lastName_{$i}", "middleName_{$i}", "firstName_{$i}", "mobilePhone_{$i}",
"landPhone_{$i}", "email_{$i}", "password_{$i}");
            $rowVarsStr = implode(" ", $rowVars);
            $rowVarsStr = '\ $rowVarsStr';
            eval('unset(' . $rowVarsStr . ');');
            $rowVarsStr = "";
        }
        echo "message: The block student list were successfully registered.<br><br>";
        $process = "editStudentList";
    }
    else{
        //collect the values of the form elements
        for($i = 0; $i < $studentCount; $i++){
            $rowVars = array("studentNumberYear_{$i}", "studentNumberNumber_{$i}", "lastName_{$i}", "middleName_{$i}", "firstName_{$i}", "mobilePhone_{$i}",
"landPhone_{$i}", "email_{$i}");
            $rowVarsStr = implode(" ", $rowVars);
            $rowVarsStr = '\ $rowVarsStr';
            eval('$studentDetails[' . $i . '] = array(' . $rowVarsStr . ');');
            eval('unset(' . $rowVarsStr . ');');
        }
        //remove specified row
        if($rowToRemove != ""){
            $studentDetails = array_merge(array_slice($studentDetails, 0, $rowToRemove), array_slice($studentDetails, $rowToRemove + 1));
            $rowToRemove = "";
            $studentCount--;
        }
        if($studentCount == 0){
            $studentCount = 1;
        }
        //reinitialize the form elements...
        for($i = 0; $i < $studentCount; $i++){
            $rowVars = array("studentNumberYear_{$i}", "studentNumberNumber_{$i}", "lastName_{$i}", "middleName_{$i}", "firstName_{$i}", "mobilePhone_{$i}",
"landPhone_{$i}", "email_{$i}");
            for($j = 0; $j < count($rowVars); $j++){
                $$rowVars[$j] = $studentDetails[$i][$j];
            }
        }
        //generate the passwords...
        if($process == "generatePasswords"){
            //remove students with existing accounts...
            $numOfExistingStudents = 0;
            for($i = 0; $i < $studentCount; $i++){
                eval('$query = "SELECT firstName FROM student WHERE student_number=\'' . $studentNumberYear_{$i} . '-' . $studentNumberNumber_{$i} . '\' ";');
                $result = mysql_query($query);
                if(mysql_num_rows($result) != 0){
                    eval('echo "error: student [' . $studentNumberYear_{$i} . '-' . $studentNumberNumber_{$i} . '] already exists and is dropped from the
list.<br><br>";');
                    $studentDetails = array_merge(array_slice($studentDetails, 0, $i - $numOfExistingStudents), array_slice($studentDetails, $i + 1 -
$numOfExistingStudents));
                    $numOfExistingStudents++;
                }
            }
            //reinitialize the form elements...
            for($i = 0; $i < $studentCount; $i++){
                $rowVars = array("studentNumberYear_{$i}", "studentNumberNumber_{$i}", "lastName_{$i}", "middleName_{$i}", "firstName_{$i}", "mobilePhone_{$i}",
"landPhone_{$i}", "email_{$i}");
                for($j = 0; $j < count($rowVars); $j++){
                    $$rowVars[$j] = $studentDetails[$i][$j];
                }
            }
            //generate passwords...
            $passwordChars = "0123456789abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNPQRSTUVWXYZ_";
            for($i = 0; $i < strlen($passwordChars); $i++){
                $passwordCharsArray[] = substr($passwordChars, $i, 1);
            }
            for($i = 0; $i < $studentCount; $i++){
                $passwordAlreadyUsed = true;
                while($passwordAlreadyUsed){
                    shuffle($passwordCharsArray);
                    shuffle($passwordCharsArray);
                    $currentPassword = implode("", array_slice($passwordCharsArray, 0, 8));
                    $query = "SELECT student_number FROM student WHERE password='$currentPassword' ";
                    $result = mysql_query($query);
                    if(mysql_num_rows($result) == 0){
                        $passwordAlreadyUsed = false;
                        eval('$password_' . $i . ' = $currentPassword;');
                    }
                }
            }
            $studentCount = count($studentDetails);
            if($studentCount == 0){
                $studentCount = 1;
            }
        }
        echo "<form name='addStudentListForm' action='?activeNav=SactiveNav&activeTab=SactiveTab' method='POST' style='display:inline;'
onSubmit='return addStudentListFormCheck(this)'>";
        echo "<table border='1' width='100%'>";
        echo "<tr><td align='center' colspan='2'>Add Student List</td></tr>";
    }
}

```

```

echo "<tr><td>College</td><td>";
echo "<select name='college' onChange='this.form.submit()>";
$query = "SELECT * FROM upm_colleges ORDER BY collegeName";
$result = mysql_query($query);
while($myrow = mysql_fetch_row($result)){
    if($college == ""){
        $college = $myrow[1];
    }
    if($college == $myrow[1]){
        echo "<option value=' $myrow[1]' selected=' selected' >$myrow[1]</option>";
    }
    else{
        echo "<option value=' $myrow[1]' >$myrow[1]</option>";
    }
}
echo "</select>";
echo "</td></tr>";
echo "<tr><td>Course</td><td>";
echo "<select name='course' >";
$queryA = "SELECT degree_programs.degreeProgramName FROM upm_colleges, degree_programs WHERE
upm_colleges.college_id=degree_programs.college_id AND upm_colleges.collegeName=' $college' ORDER BY collegeName";
$resultA = mysql_query($queryA);
if(mysql_num_rows($resultA) > 0){
    while($myrowA = mysql_fetch_row($resultA)){
        if($course == $myrowA[0]){
            echo "<option value=' $myrowA[0]' selected=' selected' >$myrowA[0]</option>";
        }
        else{
            echo "<option value=' $myrowA[0]' >$myrowA[0]</option>";
        }
    }
}
else{
    echo "<option value='' >error: missing records of degree programs please contact the administrator</option>";
}
echo "</select>";
echo "</td></tr>";
echo "</table border=' 0' width=' 100%' >";
echo "<tr><td align=' left' >";
echo "<input type=' button' name=' addNewRow' value=' add new row' onClick=' return addStudentListFormProcess(this.form, \"add new row\")' />";
echo "</td></tr>";
echo "</table>";
echo "<div style=' height: auto; width: 100%; overflow: scroll; ' >";
echo "<table id=' addStudentListTable' border=' 1' width=' 100%' >";
echo "<tr>";
echo "<td align=' center' >&nbsp;&nbsp;&nbsp;</td>";
echo "<td align=' center' >Student Number</td>";
echo "<td align=' center' >Lastname</td>";
echo "<td align=' center' >Firstname</td>";
echo "<td align=' center' >MiddleName</td>";
echo "<td align=' center' >Mobile Phone</td>";
echo "<td align=' center' >Land Phone</td>";
echo "<td align=' center' >Email Address</td>";
echo "</tr>";
for($i = 0; $i < $studentCount; $i++){
    echo "<tr>";
    echo "<td align=' center' >";
    echo "<input type=' button' id=' buttonToLink' onClick=' return addStudentListFormRemoveRow(this.form, \" $i \")' onMouseOver=' return
cursorForButtonToLink(this)' value=' REMOVE ' ";
    if($studentCount == 1){
        echo "di sabled' di sabled' ";
    }
    echo "/>";
    echo "</td>";
    echo "<td align=' center' style=' display: block; ' >";
    $tempVar = "studentNumberYear_ $i ";
    echo "<input type=' text' maxLength=' 4' size=' 4' name=' $tempVar' value=' ' . $tempVar . ' ' > ";
    $tempVar = "studentNumberNumber_ $i ";
    echo "<input type=' text' maxLength=' 5' size=' 5' name=' $tempVar' value=' ' . $tempVar . ' ' >";
    echo "</td>";
    $tempVar = "lastName_ $i ";
    echo "<td align=' center' ><input type=' text' maxLength=' 30' size=' 30' name=' $tempVar' value=' ' . $tempVar . ' ' ></td>";
    $tempVar = "firstName_ $i ";
    echo "<td align=' center' ><input type=' text' maxLength=' 30' size=' 30' name=' $tempVar' value=' ' . $tempVar . ' ' ></td>";
    $tempVar = "middleName_ $i ";
    echo "<td align=' center' ><input type=' text' maxLength=' 30' size=' 30' name=' $tempVar' value=' ' . $tempVar . ' ' ></td>";
    $tempVar = "mobilePhone_ $i ";
    echo "<td align=' center' ><input type=' text' maxLength=' 15' size=' 15' name=' $tempVar' value=' ' . $tempVar . ' ' ></td>";
    $tempVar = "landPhone_ $i ";
    echo "<td align=' center' ><input type=' text' maxLength=' 15' size=' 15' name=' $tempVar' value=' ' . $tempVar . ' ' ></td>";
    $tempVar = "email_ $i ";
    echo "<td align=' center' ><input type=' text' maxLength=' 30' size=' 30' name=' $tempVar' value=' ' . $tempVar . ' ' ></td>";
    echo "</tr>";
    $tempVar = "password_ $i ";
    echo "<input type=' hidden' maxLength=' 30' size=' 30' name=' $tempVar' value=' ' . $tempVar . ' ' >";
}
echo "</table>";
echo "</div>";
echo "<table border=' 0' width=' 100%' >";
echo "<tr><td align=' center' >";
if($process == "generatePasswords"){
    echo "<input type=' button' name=' editStudentList' value=' edit student list' onClick=' return addStudentListFormProcess(this.form, \"edit
student list\")' />";
    echo "<input type=' button' name=' printStudentList' value=' print student list' onClick=' return addStudentListFormProcess(this.form, \"print
student list\")' />";
    echo "<input type=' button' name=' saveStudentList' value=' save student list' onClick=' return addStudentListFormProcess(this.form, \"save
student list\")' />";
}
else{
    echo "<input type=' button' name=' generatePasswords' value=' generate passwords' onClick=' return addStudentListFormCheck(this.form)' />";
}
echo "</td></tr>";
echo "</table>";
echo "<input type=' hidden' name=' studentCount' value=' $studentCount' />";
echo "<input type=' hidden' name=' rowToRemove' value=' ' />";
echo "<input type=' hidden' name=' process' value=' ' />";
echo "</form>";
}
////////////////////////////////////
function get_next_Max_id($id, $table){
    connect_Db();
    $query = "SELECT MAX($id) FROM $table ";
    $result = mysql_query($query);
    $myrow = mysql_fetch_row($result);
    $current = $myrow[0];
    return $current+1;
}
////////////////////////////////////
function get_next_id($id, $table){
    $previous = 0;
    $current = 0;
    connect_Db();
    $query = "SELECT $id FROM $table ORDER BY $id";
    $result = mysql_query($query);
    while($myrow = mysql_fetch_row($result)){
        $current = $myrow[0];
        if($current-$previous > 1){
            return $previous+1;
        }
    }
}

```



```

    }
  }
  if(document.examQuery.examDescriptionMatchingHidden.value == "any"){
    document.examQuery.examDescriptionString.style.display = 'none';
  }
  else{
    document.examQuery.examDescriptionString.value = document.examQuery.examDescriptionStringHidden.value;
  }
  for(i = 0; i < document.examQuery.examAuthor.length; i++){
    if(document.examQuery.examAuthor[i].value == document.examQuery.examAuthorHidden.value){
      document.examQuery.examAuthor[i].selected = true;
    }
  }
  for(i = 0; i < document.examQuery.examAllottedTime.length; i++){
    if(document.examQuery.examAllottedTime[i].value == document.examQuery.examAllottedTimeHidden.value){
      document.examQuery.examAllottedTime[i].selected = true;
    }
  }
  for(i = 0; i < document.examQuery.examDepartmentalNumber.length; i++){
    if(document.examQuery.examDepartmentalNumber[i].value == document.examQuery.examDepartmentalNumberHidden.value){
      document.examQuery.examDepartmentalNumber[i].selected = true;
    }
  }
  for(i = 0; i < document.examQuery.examDateWhich.length; i++){
    if(document.examQuery.examDateWhich[i].value == document.examQuery.examDateWhichHidden.value){
      document.examQuery.examDateWhich[i].checked = true;
    }
  }
  for(i = 0; i < document.examQuery.examDateYear.length; i++){
    if(document.examQuery.examDateYear[i].value == document.examQuery.examDateYearHidden.value){
      document.examQuery.examDateYear[i].selected = true;
    }
  }
  for(i = 0; i < document.examQuery.examDateMonth.length; i++){
    if(document.examQuery.examDateMonth[i].value == document.examQuery.examDateMonthHidden.value){
      document.examQuery.examDateMonth[i].selected = true;
    }
  }
  for(i = 0; i < document.examQuery.examSortedBy.length; i++){
    if(document.examQuery.examSortedBy[i].value == document.examQuery.examSortedByHidden.value){
      document.examQuery.examSortedBy[i].selected = true;
    }
  }
  for(i = 0; i < document.examQuery.examDirection.length; i++){
    if(document.examQuery.examDirection[i].value == document.examQuery.examDirectionHidden.value){
      document.examQuery.examDirection[i].checked = true;
    }
  }
  for(i = 0; i < document.examQuery.examNumResults.length; i++){
    if(document.examQuery.examNumResults[i].value == document.examQuery.examNumResultsHidden.value){
      document.examQuery.examNumResults[i].selected = true;
    }
  }
  if((activeTab == 'Edit Exam') && (document.addExamQuestionForm.elements[document.addExamQuestionForm.length-1].value == 'switch to add by question id')){
    for(i = 0; i < document.questionQuery.qSubject.length; i++){
      if(document.questionQuery.qSubject[i].value == document.questionQuery.hSubject.value){
        document.questionQuery.qSubject[i].selected = true;
      }
    }
    for(i = 0; i < document.questionQuery.qTopic.length; i++){
      if(document.questionQuery.qTopic[i].value == document.questionQuery.hTopic.value){
        document.questionQuery.qTopic[i].selected = true;
      }
    }
    for(i = 0; i < document.questionQuery.qQuestionType.length; i++){
      if(document.questionQuery.qQuestionType[i].value == document.questionQuery.hQuestionType.value){
        document.questionQuery.qQuestionType[i].selected = true;
      }
    }
    for(i = 0; i < document.questionQuery.qDifficulty.length; i++){
      if(document.questionQuery.qDifficulty[i].value == document.questionQuery.hDifficulty.value){
        document.questionQuery.qDifficulty[i].selected = true;
      }
    }
    for(i = 0; i < document.questionQuery.qSortedBy.length; i++){
      if(document.questionQuery.qSortedBy[i].value == document.questionQuery.hSortedBy.value){
        document.questionQuery.qSortedBy[i].selected = true;
      }
    }
    for(i = 0; i < document.questionQuery.qDirection.length; i++){
      if(document.questionQuery.qDirection[i].value == document.questionQuery.hDirection.value){
        document.questionQuery.qDirection[i].checked = true;
      }
    }
    for(i = 0; i < document.questionQuery.qNumResults.length; i++){
      if(document.questionQuery.qNumResults[i].value == document.questionQuery.hNumResults.value){
        document.questionQuery.qNumResults[i].selected = true;
      }
    }
  }
  if((activeTab == 'Exam Schedule') && (document.newBatchScheduleForm)){
    displayDateElementsExamSchedule(document.newBatchScheduleForm);
    displayDateElementsExamScheduleTermSy(document.newBatchScheduleForm);
  }
  if(activeTab == 'Administer Exam'){
    if(document.forms[0].elements[1].value == "enabled"){
      administerExamRefreshIntervalId = setInterval("administerExamRefresh()", 3000);
    }
  }
  break;
case 'User Accounts':
  if((activeTab == 'Tutor Account') && (document.searchTutorAccount)){
    if(!document.searchTutorAccount.peerInSearch.checked){
      document.searchTutorAccount.degreeProgram.style.display = 'none';
    }
    if(!document.searchTutorAccount.facultyInSearch.checked){
      document.searchTutorAccount.department.style.display = 'none';
    }
    var thisSpanTutorSearchSchedule = document.getElementById("spanTutorSearchSchedule");
    if(document.searchTutorAccount.scheduleCriteria.value == "any"){
      thisSpanTutorSearchSchedule.style.display = 'none';
    }
    else{
      thisSpanTutorSearchSchedule.style.display = '';
    }
  }
  if((activeTab == 'Tutor Account') && (document.newTutorAccountDetails)){
    if(!((document.newTutorAccountDetails.tutorType[0].checked) || (document.newTutorAccountDetails.tutorType[1].checked))){
      document.newTutorAccountDetails.tutorType[0].checked = true;
    }
    displayCoursesOrDepartments(document.newTutorAccountDetails);
  }
  if(activeTab == 'Add Student List') && (document.addStudentListForm){
    if(document.addStudentListForm.password_0.value != ""){
      for(var i = 0; i < document.addStudentListForm.elements.length; i++){
        document.addStudentListForm.elements[i].disabled = true;
      }
    }
  }

```



```

        document.addStudentListForm.editedStudentList.disabled = false;
        document.addStudentListForm.printStudentList.disabled = false;
    }
    break;
    default:
    break;
}
}
function unhide_examDescriptionMatchingString() {
    //alert("Please enter the word(s) filter");
    if(document.examQuery.examDescriptionMatching.value == "any"){
        document.examQuery.examDescriptionString.style.display = 'none';
    }
    else{
        document.examQuery.examDescriptionString.style.display = '';
        document.examQuery.examDescriptionString.focus();
    }
}
function insert_To_Upload_Filed(index){
    window.clipboardData.setData("Text", document.clientUpload.elements[index].value);
    index++;
    index++;
    document.clientUpload.elements[index].focus();
}
function check_File(index){
    for(i = index; i < document.clientUpload.length; i++){
        if(document.clientUpload.elements[i].value != document.clientUpload.elements[i+2].value){
            alert("Please click ctrl-V again right after clicking OK");
            window.clipboardData.setData("Text", document.clientUpload.elements[i].value);
            with(document.clientUpload.elements[i+2]){
                focus(); select()
            }
            return false;
        }
        i = i+2;
    }
    alert("Okkey pede na yan!");
    return true;
}
function compute_Total(index){
    if(!isNum(document.examSpecs.elements[index].value)){
        document.examSpecs.elements[index].focus();
        document.examSpecs.elements[index].select();
        alert("Invalid string! Use numbers!");
        return false;
    }
    if(parseInt(document.examSpecs.elements[index].value) > parseInt(document.examSpecs.elements[index+1].value)){
        document.examSpecs.elements[index].focus();
        document.examSpecs.elements[index].select();
        alert("That value exceeds the available quantity. \nPlease type a value <= to the available quantity");
        return false;
    }
    else{
        //compute total freq for true or false...
        colSum = 0;
        for(i = 0; i < 5; i++){
            colSum = colSum + parseInt(document.examSpecs.elements[i*2].value);
        }
        document.examSpecs.elements[30].value = colSum;
        //compute total freq for true or false...
        colSum = 0;
        for(i = 5; i < 10; i++){
            colSum = colSum + parseInt(document.examSpecs.elements[i*2].value);
        }
        document.examSpecs.elements[31].value = colSum;
        colSum = 0;
        for(i = 10; i < 15; i++){
            colSum = colSum + parseInt(document.examSpecs.elements[i*2].value);
        }
        document.examSpecs.elements[32].value = colSum;
    }
}
function isNum(passedVal) { // Is this a number?
    if (passedVal == "") {
        return false
    }
    for (i=0; i<passedVal.length; i++) {
        if (passedVal.charAt(i) < "0") {
            return false
        }
        if (passedVal.charAt(i) > "9") {
            return false
        }
    }
    return true
}
function show_Hide(spanId, buttonId, buttonIdA){
    var thisSpan = document.getElementById(spanId);
    var thisButton = document.getElementById(buttonId);
    var thisButtonA = document.getElementById(buttonIdA);
    switch(thisButton.value){
        case 'hide':
            thisSpan.style.display = 'none';
            thisButtonA.style.display = 'none';
            thisButton.value = 'show';
            break;
        case '':
            thisSpan.style.display = 'none';
            thisButton.value = '[';
            break;
        case 'show':
            thisSpan.style.display = '';
            thisButtonA.style.display = '';
            thisButton.value = 'hide';
            break;
        case '[':
            thisSpan.style.display = '';
            thisButton.value = '_';
            break;
        default:
            break;
    }
}
function maximizeMiniimize(buttonId, formId){
    var thisButton = document.getElementById(buttonId);
    var thisForm = document.all[formId];
    if(thisButton.value == "maximize all"){
        thisButton.value = 'miniimize all';
        buttonValueToFire = "[ ]";
    }
    else{
        thisButton.value = 'maximize all';
        buttonValueToFire = " _ ";
    }
}

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if(thisForm[0].name != formId.substr(0, formId.indexOf("_"))){
if(thisForm[0].value == buttonValToFire){
thisForm[0].click();
}
}else{
for(var i = 0; i < thisForm.length; i++){
for(var j = 0; j < thisForm[i].length; j++){
if((thisForm[i].elements[j].type == "button") && (thisForm[i].elements[j].value == buttonValToFire)){
thisForm[i].elements[j].click();
}
}
}
}
}
function saveExamItemWeight(currentForm){
var wNew = currentForm.wNew.value;
var re = /\d|\d\d/g;
if(!isNaN(wNew)){
currentForm.wNew.value = currentForm.wOld.value;
alert("error: please use numeric values.");
return false;
}
else{
if(parseFloat(wNew, 10) <= 0){
currentForm.wNew.value = currentForm.wOld.value;
alert("error: please use values GREATER than or EQUAL to '1'");
return false;
}
}
eval("var subWindow = window.open('/toes/admin/exam_item_weight.php?exam_id=" + currentForm.examCurrent.value + "&question_id=" +
currentForm.questionToDelete.value + "&pointAssigned=" + currentForm.wNew.value + "', 'subWindow', 'WIDTH=" + (screen.width * .30) +
", HEIGHT=" + (screen.height * .30) + ", status:');");
currentForm.wOld.value = currentForm.wNew.value;
}
function examDateResetYear(currentForm){
currentForm.submit();
}
function displayCollegeCourses(currentForm){
var courseArray = currentForm.elements[currentForm.elements.length - currentForm.college.length] +
currentForm.college.selectedIndex.value.split(",");
currentForm.course.options.length = 0;
for(var i = 0; i < courseArray.length; i++){
currentForm.course.options[i] = new Option(courseArray[i], courseArray[i]);
}
if(currentForm.college.options[0].text == "please select college"){
currentForm.college.options[0] = null;
}
}
function checkStudentAccountDetails(currentForm){
var fieldNames = new Array(9);
fieldNames[0] = "Student number (first)";
fieldNames[1] = "Student number (last)";
fieldNames[2] = "First name";
fieldNames[3] = "Middle name";
fieldNames[4] = "Last name";
fieldNames[5] = "College";
fieldNames[6] = "Course";
fieldNames[7] = "Mobile phone";
fieldNames[8] = "Land phone";
fieldNames[9] = "Email";
fieldNames[10] = "Password";

var errorText = " error(s) found:\n";
var errorNumber = 0;
for(var i = 0; i < 10; i++){
if((currentForm.elements[i].value.length == 0) && ((i > 6) && (i < 10))){
errorNumber++;
errorText = errorText + errorNumber + ". " + fieldNames[i] + " is empty\n";
}
}
var blankContactInfo = 0;
for(var i = 7; i < 10; i++){
if(currentForm.elements[i].value.length == 0){
blankContactInfo++;
}
}
if(blankContactInfo == 3){
errorNumber++;
errorText = errorText + errorNumber + ". " + "Please supply atleast one of the following:\n";
errorText = errorText + "\tMobile phone\n";
errorText = errorText + "\tLand phone\n";
errorText = errorText + "\temail\n";
}
i = 10;
if(currentForm.elements[i].value.length == 0){
errorNumber++;
errorText = errorText + errorNumber + ". " + fieldNames[i] + " is empty\n";
}
if(!isNaN(currentForm.studentNumberYear.value)){
currentForm.studentNumberYear.focus();
currentForm.studentNumberYear.select();
alert("Invalid string! Use numbers!");
return false;
}
if(!isNaN(currentForm.studentNumberNumber.value)){
currentForm.studentNumberNumber.focus();
currentForm.studentNumberNumber.select();
alert("Invalid string! Use numbers!");
return false;
}
}
if(errorNumber == 0){
var confirmText = "Do you want to save the following details?";
confirmText = confirmText + "\nStudent number: " + currentForm.studentNumberYear.value + "-" + currentForm.studentNumberNumber.value;
for(var i = 2; i < 11; i++){
confirmText = confirmText + "\n" + fieldNames[i] + ": " + currentForm.elements[i].value;
}
var studentConfirm = confirm(confirmText);
if(studentConfirm){
return true;
}
else{
return false;
}
}
else{
alert(errorNumber + errorText);
return false;
}
}
function checkStudentNumber(currentForm){
var re = /\d\d\d\d\d\d/;
if(currentForm.studentNumberYear.value.search(re) == -1){
currentForm.studentNumberYear.focus();
currentForm.studentNumberYear.select();
alert("Invalid string! Use numbers!");
return false;
}
var re = /\d\d\d\d\d\d\d/;
if(currentForm.studentNumberNumber.value.search(re) == -1){

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        currentForm.studentNumberNumber.focus();
        currentForm.studentNumberNumber.select();
        alert ("Invalid string! Use numbers!");
        return false;
    }
}
function confirmDeleteStudent(currentForm){
    var confirmDelete = confirm("Are you sure you want to delete this record?");
    if(confirmDelete){
        return true;
    }
    else{
        currentForm.confirmDeleteStudentAccount.value = "";
    }
}
function resetStudentAccountDetails(currentForm){
    currentForm.course.options.length = 0;
    currentForm.course.options[0] = new Option(currentForm.courseH.value, currentForm.courseH.value);
}
function displayMonthDays(currentForm){
    "9")|(currentForm.bdayMonth.value == "4")|(currentForm.bdayMonth.value == "6")|(currentForm.bdayMonth.value ==
    currentForm.bdayDay.options.length = 0;
    for(var i = 0; i < 30; i++){
        currentForm.bdayDay.options[i] = new Option(i+1, i+1);
    }
}
else{
    if(currentForm.bdayMonth.value == "2"){
        currentForm.bdayDay.options.length = 0;
        for(var i = 0; i < 28; i++){
            currentForm.bdayDay.options[i] = new Option(i+1, i+1);
        }
    }
    else{
        currentForm.bdayDay.options.length = 0;
        for(var i = 0; i < 31; i++){
            currentForm.bdayDay.options[i] = new Option(i+1, i+1);
        }
    }
}
}
function checkTutorAccountDetails(currentForm){
    var fieldNames = new Array(11);
    fieldNames[0] = "First name";
    fieldNames[1] = "Middle name";
    fieldNames[2] = "Last name";
    fieldNames[3] = "Birth day month";
    fieldNames[4] = "Birth day";
    fieldNames[5] = "Birth day year";
    fieldNames[6] = "Mobile phone";
    fieldNames[7] = "Land phone";
    fieldNames[8] = "Email address";
    fieldNames[9] = "Tutor type";
    fieldNames[10] = "Tutor typeB";
    fieldNames[11] = "Course/Department";
    fieldNames[12] = "Username";
    fieldNames[13] = "Password";

    var errorText = " error(s) found:\n";
    var errorNumber = 0;
    var blankContactInfo = 0;
    for(var i = 0; i < 14; i++){
        if((currentForm.elements[i].value.length == 0)&&((i > 2)&&(i < 6)&&((i > 8)&&(i < 12)))){
            if((i > 5)&&(i < 9)){
                blankContactInfo++;
                if(blankContactInfo == 3){
                    errorNumber++;
                    errorText = errorText + errorNumber + ". " + "Please supply at least one of the following:\n";
                    errorText = errorText + "\tMobile phone\n";
                    errorText = errorText + "\tLand phone\n";
                    errorText = errorText + "\temail\n";
                }
            }
            else{
                errorNumber++;
                errorText = errorText + errorNumber + ". " + fieldNames[i] + " is empty\n";
            }
        }
    }
    if(errorNumber == 0){
        if(currentForm.passwordTutor.value.length < 8){
            alert("error: please use passwords of length 8 or more");
            currentForm.passwordTutor.select();
            return false;
        }
        var monthName = new Array('January', 'February', 'March', 'April', 'May', 'June', 'July', 'August', 'September', 'October', 'November',
        'December');
        var confirmText = "Do you want to save the following details?";
        for(var i = 0; i < 14; i++){
            if((i == 10)){
                continue;
            }
            if((i > 2)&&(i < 6)){
                confirmText = confirmText + "\n" + "Birth day: " + monthName[currentForm.elements[3].value-1] + " " + currentForm.elements[4].value + " ",
                + currentForm.elements[5].value;
                i = 5;
                continue;
            }
            if(i == 9){
                if(currentForm.tutorType[0].checked){
                    confirmText = confirmText + "\n" + fieldNames[i] + ": peer";
                }
                else{
                    confirmText = confirmText + "\n" + fieldNames[i] + ": faculty";
                }
                continue;
            }
            confirmText = confirmText + "\n" + fieldNames[i] + ": " + currentForm.elements[i].value;
        }
        var studentConfirm = confirm(confirmText);
        if(studentConfirm){
            return true;
        }
        else{
            return false;
        }
    }
    else{
        alert(errorNumber + errorText);
        return false;
    }
}
}
function displayCoursesOrDepartments(currentForm){
    // alert(currentForm.deptCourseH.value);
    var selected;
    if(currentForm.tutorType[0].checked){
        for(var i = 0; i < currentForm.length; i++){
            if(currentForm.elements[i].name == "degreeProgramIdString"){

```

```

        var hiddenFieldIndexA = i;
    }
    if(currentForm.elements[i].name == "degreeProgramNameStringH"){
        var hiddenFieldIndexB = i;
    }
}
var degreeProgramIdArray = currentForm.elements[hiddenFieldIndexA].value.split(",");
var degreeProgramArray = currentForm.elements[hiddenFieldIndexB].value.split(",");
currentForm.deptCourse.options.length = 0;
for(var i = 0; i < degreeProgramArray.length; i++){
    currentForm.deptCourse.options[i] = new Option(degreeProgramArray[i], degreeProgramIdArray[i]);
    if(currentForm.deptCourse.options[i].value == currentForm.deptCourseH.value){
        currentForm.deptCourse.options[i].defaultSelected = true;
        currentForm.deptCourse.options[i].selected = true;
    }
}
}
else{
    for(var i = 0; i < currentForm.length; i++){
        if(currentForm.elements[i].name == "departmentIdStringH"){
            var hiddenFieldIndexA = i;
        }
        if(currentForm.elements[i].name == "departmentNameStringH"){
            var hiddenFieldIndexB = i;
        }
    }
    var departmentIdArray = currentForm.elements[hiddenFieldIndexA].value.split(",");
    var departmentArray = currentForm.elements[hiddenFieldIndexB].value.split(",");
    currentForm.deptCourse.options.length = 0;
    for(var i = 0; i < departmentArray.length; i++){
        currentForm.deptCourse.options[i] = new Option(departmentArray[i], departmentIdArray[i]);
        if(currentForm.deptCourse.options[i].value == currentForm.deptCourseH.value){
            currentForm.deptCourse.options[i].defaultSelected = true;
            currentForm.deptCourse.options[i].selected = true;
        }
    }
}
}
}

function resetEditStudentAccountDetails(currentForm){
    currentForm.tutorType[0].checked = true;
    displayCoursesOrDepartments(document.newTutorAccountDetails);
}

function displayDegreeProgramsInSearch(currentForm){
    if(currentForm.peerInSearch.checked){
        currentForm.degreeProgram.style.display='';
    }
    else{
        currentForm.degreeProgram.style.display='none';
    }
    if(!currentForm.peerInSearch.checked&&!currentForm.facultyInSearch.checked){
        alert("error: The search filter must include at least one tutor type.");
        currentForm.degreeProgram.style.display='';
        currentForm.peerInSearch.checked = true;
    }
}

function displayDepartmentsInSearch(currentForm){
    if(currentForm.facultyInSearch.checked){
        currentForm.department.style.display='';
    }
    else{
        currentForm.department.style.display='none';
    }
    if(!currentForm.peerInSearch.checked&&!currentForm.facultyInSearch.checked){
        alert("error: The search filter must include at least one tutor type.");
        currentForm.department.style.display='';
        currentForm.facultyInSearch.checked = true;
    }
}

function resetTutorAccountSearch(currentForm){
    currentForm.degreeProgram.style.display='';
    currentForm.department.style.display='';
}

function displayHideSchedule(currentForm){
    var thisSpan = document.getElementById("spanTutorSearchSchedule");
    if(currentForm.scheduleCriteria.value == "any"){
        thisSpan.style.display = 'none';
    }
    else{
        thisSpan.style.display = '';
    }
}

function confirmDeleteLrcAccount(linkIndex){
    var lrcAccountTableDataArray = document.lrcAccountTableData.elements[linkIndex].value.split(",");
    var confirmationMessage = "Are you sure you want to delete the following:\n";
    confirmationMessage = confirmationMessage + "\nFirst Name: " + lrcAccountTableDataArray[1];
    confirmationMessage = confirmationMessage + "\nMiddle Name: " + lrcAccountTableDataArray[2];
    confirmationMessage = confirmationMessage + "\nLast Name: " + lrcAccountTableDataArray[3];
    confirmationMessage = confirmationMessage + "\nPersonnel Type: " + lrcAccountTableDataArray[4];
    var lrcConfirm = confirm(confirmationMessage);
    if(lrcConfirm){
        return true;
    }
    else{
        return false;
    }
}

function sendRequestToApprove(requestToApprove){
    document.approveTutorialRequestForm.requestToApproveH.value = requestToApprove;
    document.approveTutorialRequestForm.submit();
}

function sendRequestToDisapprove(requestToDisapprove){
    document.approveTutorialRequestForm.requestToDisapproveH.value = requestToDisapprove;
    document.approveTutorialRequestForm.submit();
}

function checkTimeslots(){
    //function for eliminating overlapping time in a tutor's requested timeslot...
}

function verifySelectTutorForTutorial(){
    for(var i = 0; i < document.selectTutorForTutorial.length; i++){
        if((document.selectTutorForTutorial.elements[i].name == 'tutorForTheTutorial')&&(document.selectTutorForTutorial.elements[i].checked)){
            return true;
        }
    }
    alert("error:\nPlease select a tutor for the tutorial!");
    return false;
}

function sendTutorialIdToCancel(tutorialIdToCancel){
    document.cancelTutorialScheduleForm.tutorialIdToCancelH.value = tutorialIdToCancel;
    if(confirm("Warning you are about to cancel a Tutorial Schedule.\nPlease click on OK to continue the cancellation otherwise click on CANCEL")){
        document.cancelTutorialScheduleForm.submit();
    }
    else{
        return false;
    }
}

function sendTutorialIdToManage(tutorialIdToManage){

```

```

document.cancelTutorialScheduleForm.tutorialIdToManageH.value = tutorialIdToManage;
document.cancelTutorialScheduleForm.submit();
}
function newTutorialScheduleSubject(currentForm){
currentForm.submitMode.value = "eventListener";
//remove the checks on the tutor checkboxes
for(var i = 0; i < currentForm.length; i++){
if((currentForm.elements[i].name == 'tutor') && (currentForm.elements[i].checked)){
alert(currentForm.elements[i].label);
}
}
currentForm.submit();
}
function newTutorialScheduleTutor(currentForm){
currentForm.submitMode.value = "eventListener";
currentForm.submit();
}
function newTutorialSchedulePrefDay(){
document.addTutorialScheduleForm.prefTimeFrom.options.length = 0;
document.addTutorialScheduleForm.prefTimeTo.options.length = 0;
dayTimeArray = new Array();
if(document.addTutorialScheduleForm.strictTutorSchedule.checked){
dayTimeArray.Monday = document.addTutorialScheduleForm.MondayH.value;
dayTimeArray.Tuesday = document.addTutorialScheduleForm.TuesdayH.value;
dayTimeArray.Wednesday = document.addTutorialScheduleForm.WednesdayH.value;
dayTimeArray.Thursday = document.addTutorialScheduleForm.ThursdayH.value;
dayTimeArray.Friday = document.addTutorialScheduleForm.FridayH.value;
}
else{
dayTimeArray.Monday = "08:00-17:30";
dayTimeArray.Tuesday = "08:00-17:30";
dayTimeArray.Wednesday = "08:00-17:30";
dayTimeArray.Thursday = "08:00-17:30";
dayTimeArray.Friday = "08:00-17:30";
}
}
var
dayTimeArray[document.addTutorialScheduleForm.prefDay.options[document.addTutorialScheduleForm.prefDay.selectedIndex].value].split(",");
var lowest = "";
var highest = "";
for(var i = 0; i < prefTimeArray.length; i++){
//alert(prefTimeArray[i]);
var prefTimeArrayElem = prefTimeArray[i].split("-");
if((lowest == "" && highest == "")){
lowest = prefTimeArrayElem[0];
highest = prefTimeArrayElem[1];
}
else{
//get lowest
var timeA = prefTimeArrayElem[0].split(":");
if(parseInt(timeA[0], 10) < parseInt(lowest.substring(0, lowest.indexOf(":")), 10)){
lowest = prefTimeArrayElem[0];
}
if((parseInt(timeA[0], 10) == parseInt(lowest.substring(0, lowest.indexOf(":")), 10) && (parseInt(timeA[1], 10) <
parseInt(lowest.substring(lowest.indexOf(":")+1, 10)))){
lowest = prefTimeArrayElem[0];
}
//get highest
var timeB = prefTimeArrayElem[1].split(":");
if(parseInt(timeB[0], 10) > parseInt(highest.substring(0, highest.indexOf(":")), 10)){
highest = prefTimeArrayElem[1];
}
if((parseInt(timeB[0], 10) == parseInt(highest.substring(0, highest.indexOf(":")), 10) && (parseInt(timeB[1], 10) >
parseInt(highest.substring(highest.indexOf(":")+1, 10)))){
highest = prefTimeArrayElem[1];
}
}
}
//alert("["+lowest+"]["+highest+"]");
timeValArray = new Array();
var timeValCurrent = lowest;
timeValArray[timeValArray.length] = lowest;
while(timeValCurrent != highest){
//add 30 mins
if((parseInt(timeValCurrent.substring(0, timeValCurrent.indexOf(":")+1), 10) + 30) == 60){
timeValCurrent = eval("parseInt(timeValCurrent.substring(0, timeValCurrent.indexOf(":")), 10) + 1) + ":00";
}
else{
timeValCurrent = timeValCurrent.substring(0, timeValCurrent.indexOf(":")) + ":30";
}
timeValArray[timeValArray.length] = timeValCurrent;
//alert(timeValCurrent);
}
for(var i = 0; i < timeValArray.length; i++){
if(i != timeValArray.length - 1){
document.addTutorialScheduleForm.prefTimeFrom.options[document.addTutorialScheduleForm.prefTimeFrom.options.length] = new
Option(timeConvertForDisplay(timeValArray[i]), timeValArray[i]);
}
if(i != 0){
document.addTutorialScheduleForm.prefTimeTo.options[document.addTutorialScheduleForm.prefTimeTo.options.length] = new
Option(timeConvertForDisplay(timeValArray[i]), timeValArray[i]);
}
}
displayDayInDateFormat();
}
function timeConvertForDisplay(time){
var timeArray = new Array();
for(var i = 0; i < timeArray.length; i++){
timeExt = 'AM';
var timeArrayTemp = timeArray[i].split(":");
if(timeArrayTemp[0].substring(0, 1) == "0"){
timeArrayTemp[0] = timeArrayTemp[0].substring(1, 2);
}
if(timeArrayTemp[0] > 11){
timeExt = 'PM';
}
if(timeArrayTemp[0] > 12){
timeArrayTemp[0] = timeArrayTemp[0] - 12;
}
timeArray[i] = timeArrayTemp.join(":") + " " + timeExt;
}
return timeArray.join("-");
}
function displayDayInDateFormat(dateModifier){
dayNameToNum = new Array();
dayNameToNum["Monday"] = 1;
dayNameToNum["Tuesday"] = 2;
dayNameToNum["Wednesday"] = 3;
dayNameToNum["Thursday"] = 4;
dayNameToNum["Friday"] = 5;
dayNumToName = new Array();
dayNumToName[1] = "Monday";
dayNumToName[2] = "Tuesday";
dayNumToName[3] = "Wednesday";
dayNumToName[4] = "Thursday";
dayNumToName[5] = "Friday";
switch(dateModifier){

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```

case 'prev':
var prefDate = new Date();
var prefDateArray = document.addTutoria l ScheduleForm.prefDate.val ue.spl i t("-");
prefDate.setYear(parsel nt(prefDateArray[0], 10));
prefDate.setMonth(parsel nt(prefDateArray[1], 10)-1);
prefDate.setDate(parsel nt(prefDateArray[2])-7);
document.addTutoria l ScheduleForm.dateModi fierCounter.val ue = (parsel nt(document.addTutoria l ScheduleForm.dateModi fierCounter.val ue) -
1).toStri ng();
if(document.addTutoria l ScheduleForm.dateModi fierCounter.val ue == "0"){
document.addTutoria l ScheduleForm.prefDayPrev.styl e.di splay = 'none';
}
else{
document.addTutoria l ScheduleForm.prefDayPrev.styl e.di splay = '';
}
break;
case 'next':
var prefDate = new Date();
var prefDateArray = document.addTutoria l ScheduleForm.prefDate.val ue.spl i t("-");
prefDate.setYear(parsel nt(prefDateArray[0], 10));
prefDate.setMonth(parsel nt(prefDateArray[1], 10)-1);
prefDate.setDate(parsel nt(prefDateArray[2])+7);
document.addTutoria l ScheduleForm.dateModi fierCounter.val ue = (parsel nt(document.addTutoria l ScheduleForm.dateModi fierCounter.val ue) +
1).toStri ng();
if(document.addTutoria l ScheduleForm.dateModi fierCounter.val ue == "0"){
document.addTutoria l ScheduleForm.prefDayPrev.styl e.di splay = 'none';
}
else{
document.addTutoria l ScheduleForm.prefDayPrev.styl e.di splay = '';
}
break;
default:
var prefDate = new Date();
var dayToday = prefDate.getDay();
var prefDay = dayNameToNum[document.addTutoria l ScheduleForm.prefDay[document.addTutoria l ScheduleForm.prefDay.sel ectedI ndex].text];
//ensure 2 day preparation before the prefDay
for(var i = 0; i < 2; i++){
prefDate.setDate(prefDate.getDate()+1);
if((prefDate.getDay() == 6)|| (prefDate.getDay() == 0)){
i--;
}
}
whi le(prefDate.getDay() != prefDay){
prefDate.setDate(prefDate.getDate()+1);
}
document.addTutoria l ScheduleForm.prefDayPrev.styl e.di splay = 'none';
break;
}
document.addTutoria l ScheduleForm.prefDateDi splay.val ue = prefDate.toLocal eDateStri ng().substri ng(prefDate.toLocal eDateStri ng().i ndexOf("
")+2);
var myDate;
myDate = prefDate.getFul lYear();
if(prefDate.getMonth()+1 < 10){
myDate = myDate+"-0"+(prefDate.getMonth()+1);
}
else{
myDate = myDate+"-"+(prefDate.getMonth()+1);
}
if(prefDate.getDate()+1 < 10){
myDate = myDate+"-0"+prefDate.getDate();
}
else{
myDate = myDate+"-"+prefDate.getDate();
}
document.addTutoria l ScheduleForm.prefDate.val ue = myDate;
//al ert(document.addTutoria l ScheduleForm.prefDate.val ue);
}
functi on veri fyPrefTi me(){
var ti meFrom = document.addTutoria l ScheduleForm.prefTi meFrom.val ue;
var ti meTo = document.addTutoria l ScheduleForm.prefTi meTo.val ue;
if(!((parsel nt(ti meFrom.substri ng(0, ti meFrom.i ndexOf(":"))) < parsel nt(ti meTo.substri ng(0, ti meTo.i ndexOf(":"))) || ((parsel nt(ti meFrom.substri ng(0, ti meFrom.i ndexOf(":"))) == parsel nt(ti meTo.substri ng(0, ti meTo.i ndexOf(":"))) && (parsel nt(ti meFrom.substri ng(ti meFrom.i ndexOf(":")+1) < parsel nt(ti meTo.substri ng(ti meTo.i ndexOf(":")+1))))))){
al ert("error: \n\ti nval i d ti me i nterval!");
return fal se;
}
}
dayTi meArray = new Array();
if(document.addTutoria l ScheduleForm.stri ctTutorSchedule.checked){
dayTi meArray.Monday = document.addTutoria l ScheduleForm.MondayH.val ue;
dayTi meArray.Tuesday = document.addTutoria l ScheduleForm.TuesdayH.val ue;
dayTi meArray.Wednesday = document.addTutoria l ScheduleForm.WednesdayH.val ue;
dayTi meArray.Thursday = document.addTutoria l ScheduleForm.ThursdayH.val ue;
dayTi meArray.Fri day = document.addTutoria l ScheduleForm.Fri dayH.val ue;
}
else{
dayTi meArray.Monday = "08:00-17:30";
dayTi meArray.Tuesday = "08:00-17:30";
dayTi meArray.Wednesday = "08:00-17:30";
dayTi meArray.Thursday = "08:00-17:30";
dayTi meArray.Fri day = "08:00-17:30";
}
var prefTi meArray = new Array();
var cannotBeCombi ned = true;
var
dayTi meArray[document.addTutoria l ScheduleForm.prefDay.opti ons[document.addTutoria l ScheduleForm.prefDay.sel ectedI ndex].val ue].spl i t(",");
for(var i = 0; i < prefTi meTemp.l ength; i++){
for(var j = 0; j < prefTi meArray.l ength; j++){
if(prefTi meArray[j].substri ng(prefTi meArray[j].i ndexOf("-")+1) == prefTi meTemp[i].substri ng(0, prefTi meTemp[i].i ndexOf("-"))){
prefTi meArray[j] = prefTi meArray[j].substri ng(0, prefTi meArray[j].i ndexOf("-")) +
prefTi meTemp[i].substri ng(prefTi meTemp[i].i ndexOf("-")+1);
cannotBeCombi ned = fal se;
break;
}
}
}
if(cannotBeCombi ned){
prefTi meArray[prefTi meArray.l ength] = prefTi meTemp[i];
}
}
for(var i = 0; i < prefTi meArray.l ength; i++){
var ti meVal = prefTi meArray[i].spl i t("-");
var upperLess = fal se;
var lowerMore = fal se;
if(parsel nt(ti meTo.substri ng(0, ti meTo.i ndexOf(":")), 10) < parsel nt(ti meVal [1].substri ng(0, ti meVal [1].i ndexOf(":")), 10)){
upperLess = true;
//al ert("passed upper");
}
if((parsel nt(ti meTo.substri ng(0, ti meTo.i ndexOf(":")), 10) == parsel nt(ti meVal [1].substri ng(0, ti meVal [1].i ndexOf(":")),
10)&& (parsel nt(ti meTo.substri ng(ti meTo.i ndexOf(":")+1), 10) <= parsel nt(ti meVal [1].substri ng(ti meVal [1].i ndexOf(":")+1), 10))){
upperLess = true;
//al ert("passed upper");
}
if(parsel nt(ti meFrom.substri ng(0, ti meFrom.i ndexOf(":")), 10) > parsel nt(ti meVal [0].substri ng(0, ti meVal [0].i ndexOf(":")), 10)){
lowerMore = true;
//al ert("passed lower");
}
if((parsel nt(ti meFrom.substri ng(0, ti meFrom.i ndexOf(":")), 10) == parsel nt(ti meVal [0].substri ng(0, ti meVal [0].i ndexOf(":")),
10)&& (parsel nt(ti meFrom.substri ng(ti meFrom.i ndexOf(":")+1), 10) >= parsel nt(ti meVal [0].substri ng(ti meVal [0].i ndexOf(":")+1), 10))){
lowerMore = true;
//al ert("passed lower");
}
}
}

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```

        if((upperLess)&&(lowerMore)){
            break;
        }
        else{
            if(i == prefTimeArray.length - 1){
                var errorText = "error\n\n";
                errorText = errorText + "Please make sure that your preferred time\nis within one of these time intervals:\n\n";
                for(var j = 0; j < prefTimeArray.length; j++){
                    errorText = errorText + "\n\t" + timeConvertForDisplay(prefTimeArray[j]);
                }
                alert(errorText);
            }
        }
    }
    return true;
}
function relaxOrStrictTutorSchedule(currentForm){
    currentForm.submitMode.value = "eventListener";
    currentForm.submit();
}
function checkNewTutorialScheduleDetails(currentForm){
    currentForm.submit();
}
function verifyExamSpecsFormSubmit(currentForm){
    currentForm.qtyTfStr.value = "";
    currentForm.qtyMcStr.value = "";
    currentForm.qtyMtStr.value = "";
    for(var i = 0; i < currentForm.length; i++){
        if(currentForm.elements[i].name == 'qtyTf'){
            currentForm.qtyTfStr.value = currentForm.qtyTfStr.value + currentForm.elements[i].value + ",";
        }
        if(currentForm.elements[i].name == 'qtyMc'){
            currentForm.qtyMcStr.value = currentForm.qtyMcStr.value + currentForm.elements[i].value + ",";
        }
        if(currentForm.elements[i].name == 'qtyMt'){
            currentForm.qtyMtStr.value = currentForm.qtyMtStr.value + currentForm.elements[i].value + ",";
        }
    }
    currentForm.qtyTfStr.value = currentForm.qtyTfStr.value.substring(0, currentForm.qtyTfStr.value.length - 1);
    currentForm.qtyMcStr.value = currentForm.qtyMcStr.value.substring(0, currentForm.qtyMcStr.value.length - 1);
    currentForm.qtyMtStr.value = currentForm.qtyMtStr.value.substring(0, currentForm.qtyMtStr.value.length - 1);
}
function setBatchScheduleToAdminister(batchScheduleIdToAdminister){
    document.edtCancelBatchScheduleForm.batchScheduleIdToAdministerH.value = batchScheduleIdToAdminister;
    document.edtCancelBatchScheduleForm.submit();
}
function setBatchScheduleToEdit(batchScheduleIdToEdit){
    document.edtCancelBatchScheduleForm.batchScheduleIdToEditH.value = batchScheduleIdToEdit;
    document.edtCancelBatchScheduleForm.submit();
}
function setBatchScheduleToCancel(batchScheduleIdToCancel){
    document.edtCancelBatchScheduleForm.batchScheduleIdToCancelH.value = batchScheduleIdToCancel;
    document.edtCancelBatchScheduleForm.submit();
}
function checkTimeTextInput(currentElement){
    var inputTime = currentElement.value;
    var re = /^d?d:\d\d[aApP]{1}[mM]{1}/g;

    if(inputTime.search(re) == -1){
        currentElement.focus();
        currentElement.select();
        alert("error: please use the following format: \n\t'h':mmAM' \n\t'h':mmPM'");
        return false;
    }
    //check if time is valid
    if(parseInt(inputTime.substring(0, inputTime.indexOf(":"))) > 12){
        currentElement.focus();
        currentElement.select();
        alert("error: invalid time");
        return false;
    }
    if(parseInt(inputTime.substring(inputTime.indexOf(":") + 1)) > 59){
        currentElement.focus();
        currentElement.select();
        alert("error: invalid time");
        return false;
    }
}
function checkAvailableSlotsInput(currentElement){
    if(!isNaN(currentElement.value)){
        currentElement.focus();
        currentElement.select();
        alert("error: invalid input please use numbers");
        return false;
    }
    else{
        currentElement.value = parseInt(currentElement.value, 10);
    }
}
function displayDateElementsExamSchedule(currentForm){
    var currentDate = new Date();
    var currentMonthSelected = currentForm.month.value;
    var startIndex = 1;
    var additionalDay = 2;

    if((currentMonthSelected == currentForm.month.options[0].value)&&(currentDate.getMonth() + 1 != currentForm.month.options[0].value)){
        //check default date element values
        startIndex = currentDate.getDate() + additionalDay;
        var currentMonthNumOfDays = 0;
        var currentMonth = currentDate.getMonth() + 1;
        if((currentMonth == "4")||((currentMonth == "6")||((currentMonth == "9")||((currentMonth == "11"))){
            currentMonthNumOfDays = 30;
        }
        else{
            if(currentMonth == "2"){
                currentMonthNumOfDays = 28;
            }
            else{
                currentMonthNumOfDays = 31;
            }
        }
        if(startIndex > currentMonthNumOfDays){
            startIndex = startIndex - currentMonthNumOfDays;
        }
    }
    else{
        if(currentMonthSelected == currentDate.getMonth() + 1){
            startIndex = currentDate.getDate() + additionalDay;
            //if the additional days exceed the numofDays on the currentMonthSelected currentMonthSelected++
            var currentMonthNumOfDays = 0;
            if((currentMonthSelected == "4")||((currentMonthSelected == "6")||((currentMonthSelected == "9")||((currentMonthSelected == "11"))){
                currentMonthNumOfDays = 30;
            }
            else{
                if(currentMonthSelected == "2"){
                    currentMonthNumOfDays = 28;
                }
                else{
                    currentMonthNumOfDays = 31;
                }
            }
        }
    }
}

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    }
    } if(startIndex > currentMonthNumOfDays){
        currentMonthSelected++;
        currentMonthSelected = ((currentMonthSelected - 1) % 12) + 1;
        currentForm.month.options[0] = null;
        for(var i = 0; i < currentForm.month.length; i++){
            if(currentForm.month.options[i].value == currentMonthSelected){
                currentForm.month.options[i].selected = true;
            }
        }
        startIndex = startIndex - currentMonthNumOfDays;
    }
}
} if((currentMonthSelected == "4") || (currentMonthSelected == "6") || (currentMonthSelected == "9") || (currentMonthSelected == "11")){
    currentForm.day.options.length = 0;
    for(var i = startIndex; i <= 30; i++){
        currentForm.day.options[currentForm.day.options.length] = new Option(i, i);
    }
}
else{
    if(currentMonthSelected == "2"){
        currentForm.day.options.length = 0;
        for(var i = startIndex; i <= 28; i++){
            currentForm.day.options[currentForm.day.options.length] = new Option(i, i);
        }
    }
    else{
        currentForm.day.options.length = 0;
        for(var i = startIndex; i <= 31; i++){
            currentForm.day.options[currentForm.day.options.length] = new Option(i, i);
        }
    }
}
var yearToAdvance = 0;
var tempIndex = parseInt(currentForm.month.options[0].value);
while(tempIndex <= parseInt(currentForm.month.options[currentForm.month.selectedIndex].value)){
    if(tempIndex % 12 == 1){
        yearToAdvance++;
    }
    tempIndex++;
}
currentForm.year.value = currentDate.getFullYear() + yearToAdvance;
function displayDateElementsExamScheduleTermSy(currentForm){
    var currentDate = new Date();
    currentForm.term.options[currentForm.term.options.length] = new Option("first", "first");
    currentForm.term.options[currentForm.term.options.length] = new Option("second", "second");
    var cm = currentForm.month.value;
    if((cm == 4) || (cm == 5)){
        currentForm.term.options[2].selected = true;
    }
    else{
        if((cm >= 6) && (cm <= 10)){
            currentForm.term.options[0].selected = true;
        }
        else{
            currentForm.term.options[1].selected = true;
        }
    }
    var cy = parseInt(currentForm.year.value, 10);
    if((cm >= 1) && (cm < 6)){
        currentForm.syFrom.value = cy - 1;
        currentForm.syTo.value = cy;
    }
    else{
        currentForm.syFrom.value = cy;
        currentForm.syTo.value = cy + 1;
    }
}
function newBatchScheduleCheck(currentForm){
    var textboxArray = new Array(currentForm.examinationFrom, currentForm.examinationTo, currentForm.discussionTimeFrom, currentForm.discussionTimeTo);
    for(var i = 0; i < textboxArray.length; i++){
        if(textboxArray[i].value == "hh:mmAM"){
            textboxArray[i].focus();
            textboxArray[i].select();
            alert("error: missing input, please supply the needed information.");
            return false;
        }
    }
    var etf = convertToMilitaryTime(currentForm.examinationFrom.value);
    var ett = convertToMilitaryTime(currentForm.examinationTo.value);
    var dtf = convertToMilitaryTime(currentForm.discussionTimeFrom.value);
    var dtt = convertToMilitaryTime(currentForm.discussionTimeTo.value);
    if(etf == ett){
        currentForm.examinationFrom.focus();
        currentForm.examinationFrom.select();
        alert("error: invalid exam time - 'exam time from' and 'exam time to' can not be equal.");
        return false;
    }
    if(dtf == dtt){
        currentForm.discussionTimeFrom.focus();
        currentForm.discussionTimeFrom.select();
        alert("error: invalid discussion time - 'discussion time from' and 'discussion time to' can not be equal.");
        return false;
    }
    if(parseInt(etf.substring(0, etf.indexOf(":"), 10)) > parseInt(ett.substring(0, ett.indexOf(":"), 10))){
        currentForm.examinationFrom.focus();
        currentForm.examinationFrom.select();
        alert("error: invalid exam time");
        return false;
    }
    if((parseInt(etf.substring(etf.indexOf(":") + 1, 10)) > parseInt(ett.substring(ett.indexOf(":") + 1, 10))) && (parseInt(etf.substring(0, etf.indexOf(":"), 10)) == parseInt(ett.substring(0, ett.indexOf(":"), 10)))){
        currentForm.examinationFrom.focus();
        currentForm.examinationFrom.select();
        alert("error: invalid exam time B");
        return false;
    }
    if(parseInt(dtf.substring(0, dtf.indexOf(":"), 10)) > parseInt(dtt.substring(0, dtt.indexOf(":"), 10))){
        currentForm.discussionTimeFrom.focus();
        currentForm.discussionTimeFrom.select();
        alert("error: invalid discussion time");
        return false;
    }
    if((parseInt(dtf.substring(dtf.indexOf(":") + 1, 10)) > parseInt(dtt.substring(dtt.indexOf(":") + 1, 10))) && (parseInt(dtf.substring(0, dtf.indexOf(":"), 10)) == parseInt(dtt.substring(0, dtt.indexOf(":"), 10)))){
        currentForm.discussionTimeFrom.focus();
        currentForm.discussionTimeFrom.select();
        alert("error: invalid discussion time");
        return false;
    }
    if(parseInt(ett.substring(0, ett.indexOf(":"), 10)) > parseInt(dtf.substring(0, dtf.indexOf(":"), 10))){
        currentForm.discussionTimeFrom.focus();
        currentForm.discussionTimeFrom.select();
        alert("error: conflicting 'exam time' and 'discussion time'\n\tmake sure that the 'exam time' precedes the 'discussion'");
        return false;
    }
}

```



```

    }
    if(((parseInt(ett.substring(ett.indexOf(":") + 1), 10) > parseInt(dtf.substring(dtf.indexOf(":") + 1), 10))&&(parseInt(ett.substring(0,
ett.indexOf(":") + 10) <= parseInt(dtf.substring(0, dtf.indexOf(":") + 10)))&&(parseInt(ett.substring(0, ett.indexOf(":") + 10) ==
parseInt(dtf.substring(0, dtf.indexOf(":") + 10))))){
        currentForm.di.scussi.onTimeFrom.focus();
        currentForm.di.scussi.onTimeFrom.select();
        alert("error: conflicting 'exam time' and 'discussion time'\n\tmake sure that the 'exam time' period precedes the 'discussion time'
period");
        return false;
    }
    var re = /\d\d\d\d\d/;
    if(currentForm.syFrom.value.search(re) == -1){
        alert("error: invalid year");
        currentForm.syFrom.select();
        return false;
    }
    var re = /\d\d\d\d\d/;
    if(currentForm.syTo.value.search(re) == -1){
        alert("error: invalid year");
        currentForm.syTo.select();
        return false;
    }
    if(parseInt(currentForm.syTo.value) - parseInt(currentForm.syFrom.value) != 1){
        alert("error: invalid school year");
        currentForm.syFrom.select();
        return false;
    }
    currentForm.examTime.value = etf + "-" + ett;
    currentForm.di.scussi.onTime.value = dtf + "-" + dtt;
    return true;
}
function editBatchScheduleCheck(currentForm){
    if(parseInt(currentForm.avai.lableSlots.value, 10) >= parseInt(currentForm.takenSlotsH.value, 10)){
        return true;
    }
    else{
        currentForm.avai.lableSlots.focus();
        currentForm.avai.lableSlots.select();
        alert("error: " + currentForm.takenSlotsH.value + " students are already registered please choose a greater number");
        return false;
    }
}
function convertToMilitaryTime(t){
    var time = "";
    t = t.toUpperCase();
    var p = t.substring(t.length - 2);
    var h = t.substring(0, t.indexOf(":"));
    var m = t.substring(t.indexOf(":") + 1, t.length - 2);
    if(p == "AM"){
        h = parseInt(h, 10) % 12;
        h = h.toString();
        if(h.length == 1){
            h = "0" + h;
        }
    }
    else{
        if(parseInt(h, 10) < 12){
            h = parseInt(h, 10) + 12;
            h = h.toString();
        }
    }
    time = h + ":" + m;
    return time;
}
function test(){
    var t = "01:00";
    alert(parseInt(t.substring(0, t.indexOf(":"))));
}
function cursorForButtonToLink(currentElement){
    currentElement.style.cursor = "hand";
}
function ensureInputIsInt(currentElement, inputLength){
    if(!isNum(currentElement.value)){
        currentElement.focus();
        currentElement.select();
        alert("error: invalid input please use numbers");
        return false;
    }
    if((inputLength != null)&&(currentElement.value.length != inputLength)){
        currentElement.focus();
        currentElement.select();
        alert("error: invalid number of digits, the textbox expects " + inputLength + " digit(s)");
        return false;
    }
}
function checkUncheckAllExaminees(currentForm, bool Check){
    var checkAllButtonSpan = document.getElementById("checkAllButton");
    var uncheckAllButtonSpan = document.getElementById("uncheckAllButton");
    if(bool Check){
        checkAllButtonSpan.style.display = "none";
        uncheckAllButtonSpan.style.display = "";
    }
    else{
        checkAllButtonSpan.style.display = "";
        uncheckAllButtonSpan.style.display = "none";
    }
    for(var i = 0; i < currentForm.elements.length; i++){
        if(currentForm.elements[i].name == 'studentNumberArray[]'){
            currentForm.elements[i].checked = bool Check;
        }
    }
}
function checkUncheckAllExamineesL(currentForm, bool Check){
    var checkAllButtonSpan = document.getElementById("checkAllButtonL");
    var uncheckAllButtonSpan = document.getElementById("uncheckAllButtonL");
    if(bool Check){
        checkAllButtonSpan.style.display = "none";
        uncheckAllButtonSpan.style.display = "";
    }
    else{
        checkAllButtonSpan.style.display = "";
        uncheckAllButtonSpan.style.display = "none";
    }
    for(var i = 0; i < currentForm.elements.length; i++){
        if(currentForm.elements[i].name == 'studentNumberArray[]'){
            currentForm.elements[i].checked = bool Check;
        }
    }
}
function orderListOfExaminees(currentForm, orderBy){
    //alert(orderBy);
    if(currentForm.orderBy.value != orderBy){
        currentForm.direction.value = "DESC";
    }
    currentForm.orderBy.value = orderBy;
    currentForm.submit();
}
function confirmExamineeAuthorize(currentForm){
    if(confirm("message: you are about to start the exam\nDo you want to proceed?")){

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currentForm.action.value= "authorize";
for(var i = 0; i < currentForm.elements.length; i++){
    if(currentForm.elements[i].name == 'studentNumberArray[]'){
        currentForm.elements[i].checked = true;
    }
}
currentForm.submit();
}
}
function confirmExamineRemove(currentForm){
    var checkedStudent = Array();
    for(var i = 0; i < currentForm.elements.length; i++){
        if(currentForm.elements[i].name == 'studentNumberArray[]'){
            if(currentForm.elements[i].checked){
                checkedStudent[checkedStudent.length] = currentForm.elements[i].value;
            }
        }
    }
    if(checkedStudent.length == 0){
        alert("error: please select a student from the list.");
    }
    else{
        //if(confirm("message: you are about to remove the following \nstudent(s) from this exam:\n\n\t" + checkedStudent.join("\n\t") + "\n\nDo you want to proceed?")){
        if(confirm("message: you are about to remove the specified student(s) from this exam:\n\nDo you want to proceed?")){
            currentForm.action.value= "delete";
            currentForm.submit();
        }
    }
}
function confirmExamineAuthorizeL(currentForm){
    var checkedStudent = Array();
    for(var i = 0; i < currentForm.elements.length; i++){
        if(currentForm.elements[i].name == 'studentNumberArray[]'){
            if(currentForm.elements[i].checked){
                checkedStudent[checkedStudent.length] = currentForm.elements[i].value;
            }
        }
    }
    if(checkedStudent.length == 0){
        alert("error: please select a student from the list.");
    }
    else{
        if(confirm("message: you are about to allow the following \nstudent(s) to take the exam:\n\n\t" + checkedStudent.join("\n\t") + "\n\nDo you want to proceed?")){
            currentForm.action.value= "authorizeL";
            currentForm.submit();
        }
    }
}
function confirmExamineRemoveL(currentForm){
    var checkedStudent = Array();
    for(var i = 0; i < currentForm.elements.length; i++){
        if(currentForm.elements[i].name == 'studentNumberArray[]'){
            if(currentForm.elements[i].checked){
                checkedStudent[checkedStudent.length] = currentForm.elements[i].value;
            }
        }
    }
    if(checkedStudent.length == 0){
        alert("error: please select a student from the list.");
    }
    else{
        //if(confirm("message: you are about to remove the following \nstudent(s) from this exam:\n\n\t" + checkedStudent.join("\n\t") + "\n\nDo you want to proceed?")){
        if(confirm("message: you are about to remove the specified student(s) from this exam:\n\nDo you want to proceed?")){
            currentForm.action.value= "deleteL";
            currentForm.submit();
        }
    }
}
function confirmExamineBlockUnblock(currentForm, statusNum){
    var examineStatusArray = currentForm.examineStatus.value.split(",");
    var checkedStudent = Array();
    var additionalAlertMessage = "";
    var numOfIgnoredRequest = 0;
    var examineStatusArrayIndex = 0;
    for(var i = 0; i < currentForm.elements.length; i++){
        if(currentForm.elements[i].name == 'studentNumberArray[]'){
            if(currentForm.elements[i].checked){
                if(examineStatusArray[examineStatusArrayIndex] == statusNum){
                    checkedStudent[checkedStudent.length] = currentForm.elements[i].value;
                }
                else{
                    currentForm.elements[i].checked = false;
                    numOfIgnoredRequest++;
                }
            }
            examineStatusArrayIndex++;
        }
    }
    if(numOfIgnoredRequest == examineStatusArrayIndex){
        checkUnblockAllExamines(currentForm, false);
    }
    if(checkedStudent.length == 0){
        if(numOfIgnoredRequest == 0){
            alert("error: please select a student from the list.");
        }
        else{
            alert("error: the system ignores the following type of requests:\n\n\tblocking or unblocking a 'waiting' student\n\n\tblocking a 'blocked' student\n\n\tunblocking an 'answering' student\n\n\tblocking or unblocking a 'finished' student");
        }
    }
    else{
        if(statusNum == 2){
            currentForm.action.value = "block";
        }
        else{
            currentForm.action.value = "unblock";
        }
        //if(confirm("message: you are about to " + currentForm.action.value + " the following \nstudent(s) from taking the exam:\n\n\t" + checkedStudent.join("\n\t") + "\n\nDo you want to proceed?")){
        if(confirm("message: you are about to " + currentForm.action.value + " the selected student(s)\n\n" + tabS + "Do you want to proceed?")){
            currentForm.submit();
        }
    }
}
}
function timeModSelJav(currentEl t){
    if(currentEl t.value == ""){
        var thisSel = document.getElementById("timeModSelId");
        var thisStext = document.getElementById("timeModTextId");
        var thisSbutton = document.getElementById("timeModSelButtonId");
        thisSel.style.display = "none";
        thisSbutton.style.display = "none";
        thisStext.value = "00:00:00";
        thisStext.style.display = "";
        thisStext.focus();
    }
}
}
}

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function hideModalDisplaySel () {
    var thisSel = document.getElementById("timeModSelId");
    var thisText = document.getElementById("timeModTextId");
    var thisButton = document.getElementById("timeModSelButtonId");
    thisSel.style.display = "none";
    thisButton.style.display = "none";
    thisText.style.display = "none";
    thisSel.selectedIndex = 0;
}

function confirmDec(currentForm, modOp) {
    var thisText = document.getElementById("timeModTextId");
    if(thisText.style.display == "none"){
        currentForm.timeModText.value = currentForm.timeModSel.value;
    }
    else{
        //the text box is shown therefore we must make sure that the user-inputted string is valid
        var re = /\b[0-9]{1,2}:[0-9]{1,2}:[0-9]{1,2}\b/g;
        if(currentForm.timeModText.value.search(re) == -1){
            alert("error: please use this format HH:MM:SS\n" + tabS + "H, M, and S must be numeric");
            return false;
        }
        else{
            var timeArray = currentForm.timeModText.value.split(":");
            var errorStr = "";
            if(parseInt(timeArray[0], 10) > 1){
                errorStr += "error: the HOUR value should not exceed 1\n";
            }
            if(parseInt(timeArray[1], 10) > 59){
                errorStr += "error: the MINUTE value should not exceed 59\n";
            }
            if(parseInt(timeArray[2], 10) > 59){
                errorStr += "error: the SECOND value should not exceed 59\n";
            }
            if(errorStr != ""){
                alert(errorStr);
                return false;
            }
        }
    }
    /*
    alert(
        "error: invalid time. please study the following examples:\n"
        + tabS + "00:00:00\n"
        + tabS + "00:00:01\n"
        + tabS + "... \n"
        + tabS + "00:00:59\n"
        + tabS + "00:01:00\n"
        + tabS + "00:01:01\n"
        + tabS + "... \n"
        + tabS + "00:59:59\n"
        + tabS + "01:00:00\n"
        + tabS + "01:00:01\n"
        + tabS + "... \n"
        + tabS + "23:59:59\n"
        + tabS + "24:00:00\n"
        + tabS + "24:00:01\n"
        + tabS + "... \n"
        + tabS + "24:59:59\n"
    );
    */
}

var confirmMessage = "message: the REMAINING TIME of the selected student(s)\n";
if(modOp == "force"){
    confirmMessage += tabS + "will be reset to " + currentForm.timeModText.value;
}
else if(modOp == "inc"){
    confirmMessage += tabS + "will be INCREASED by " + currentForm.timeModText.value;
}
else{
    confirmMessage += tabS + "will be DECREASED by " + currentForm.timeModText.value;
}
confirmMessage += "\n\n";
var examineeStatusArray = currentForm.examineeStatus.value.split(",");
var examineeStatusArrayIndex = 0;
var checkedStudent_1 = Array();
var checkedStudent_2 = Array();
var checkedStudent_3 = Array();
var checkedStudent_4 = Array();
var checkedStudentCount = 0;
for(var i = 0; i < currentForm.elements.length; i++){
    if(currentForm.elements[i].name == 'studentNumberArray[]'){
        if(currentForm.elements[i].checked){
            checkedStudentCount++;
            switch(examineeStatusArray[examineeStatusArrayIndex]){
                case '1':
                    checkedStudent_1[checkedStudent_1.length] = currentForm.elements[i].value;
                    break;
                case '2':
                    checkedStudent_2[checkedStudent_2.length] = currentForm.elements[i].value;
                    break;
                case '3':
                    checkedStudent_3[checkedStudent_3.length] = currentForm.elements[i].value;
                    break;
                case '4':
                    checkedStudent_4[checkedStudent_4.length] = currentForm.elements[i].value;
                    break;
                default:
                    if(!checkedStudentCount){
                        break;
                    }
            }
            examineeStatusArrayIndex++;
        }
    }
}
/*these part lists the checked students in the alert dialog box...
var examineeStatus = Array('waiting', 'answering', 'blocked', 'finished');
var tempBool = new Boolean(0);
for(var i = 1; i <= 4; i++){
    eval("if(checkedStudent_" + i + ".length != 0) tempBool = Boolean(1); else tempBool = Boolean(0);");
    if(tempBool){
        confirmMessage += tabS + "" + examineeStatus[i] + "" student(s):\n";
        eval("for(var j = 0; j < checkedStudent_" + i + ".length; j++){ confirmMessage += tabS + tabS + checkedStudent_" + i + "[j] + NL;}");
    }
}
*/
currentForm.action.value = "modTime";
if(checkedStudentCount > 0){
    if(confirm(confirmMessage)){
        var timeArray = currentForm.timeModText.value.split(":");
        currentForm.timeModText.value = (parseInt(timeArray[0], 10) * 3600) + (parseInt(timeArray[1], 10) * 60) + parseInt(timeArray[2], 10);
        if(modOp == "force"){
            currentForm.timeModText.value = "." + currentForm.timeModText.value;
        }
        else if(modOp == "inc"){
            currentForm.timeModText.value = "+" + currentForm.timeModText.value;
        }
        else{
            currentForm.timeModText.value = "-" + currentForm.timeModText.value;
        }
        currentForm.submit();
    }
}

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    }
    else{
        alert("error: please select a student");
    }
}
function confirmExamResume(currentForm){
    if(confirm("You are about to resume the exam. Exams should only be resumed \nif the server failed (ex. power interruptions) during the
    examination.\nDo you want to continue?")){
        currentForm.action.value = "resume";
        currentForm.submit();
    }
    else{
        return false;
    }
}
function setBatchScheduleToClose(batchScheduleToClose){
    if(confirm("message: you are about to close the BATCH SCHEDULE EXAM\n" + tabS + "A closed batch is not accessible to both administrators and
    examiners.\n\n" + tabS + "Do you want to continue?")){
        document.listOfExaminersForm.action.value = 'close';
        document.listOfExaminersForm.submit();
    }
}
function computeStatisticsFromAdmin(currentForm){
    //if(confirm("message: you are about to close the BATCH SCHEDULE EXAM\n" + tabS + "A closed batch is not accessible to both administrators
    and examiners.\n\n" + tabS + "Do you want to continue?")){
    //alert("message: please be advised that a new window will pop up.\nThe new window will perform essential tasks for collecting statistical
    data.\nPlease refrain from using the mouse and the keyboard when the window is displayed.\nThe new window will close itself when it finishes
    its task.");
    eval("var subWindow = window.open(' + currentForm.subWindowDivrective.value + "','','WIDTH=" + screen.width + ",HEIGHT=" + screen.height +
    "','status:');");
    //}
}
function subjectAndModeSubmit(currentForm){
    if(currentForm.examSubject.value == "Select"){
        alert("Please choose a subject.");
        return false;
    }
    return true;
}
function usingStatisticsSelectDisplay(currentT, currentId){
    if(currentT.checked){
        document.getElementById(currentId).style.display = "";
    }
    else{
        document.getElementById(currentId).style.display = "none";
    }
}
if(!document.usingStatisticsForm.itemDfficultC.checked)&&(document.usingStatisticsForm.dic.checked)&&(document.usingStatisticsForm.pbcC.ch
    ecked){
    document.getElementById("statPriority").style.display = "none";
}
else{
    document.getElementById("statPriority").style.display = "";
}
}
function usingStatisticsFrequencyCheck(currentForm){
    var confirmStr = "You specified the following frequencies for each question type:\n";
    confirmStr += tabS + currentForm.tff.value + " true or false\n";
    confirmStr += tabS + currentForm.mcf.value + " multiple choice\n";
    confirmStr += tabS + currentForm.mtf.value + " matching type\n";
    if(confirm(confirmStr)){
        return true;
    }
    return false;
}
function adminPasswordCheck(currentForm){
    if(currentForm.passwordNew.value.length < 8){
        alert("error: please use passwords of length 8 or more");
        currentForm.passwordNew.select();
        return false;
    }
    if(currentForm.passwordNewR.value.length < 8){
        alert("error: please use passwords of length 8 or more");
        currentForm.passwordNewR.select();
        return false;
    }
    return true;
}
function ircPersonnelCheck(currentForm){
    var fieldNames = new Array(5);
    fieldNames[0] = "First name";
    fieldNames[1] = "Middle name";
    fieldNames[2] = "Last name";
    fieldNames[3] = "Personnel Type";
    fieldNames[4] = "Username";
    fieldNames[5] = "Password";
    var errorText = "error(s) found:\n";
    var errorNumber = 0;
    for(var i = 0; i < 6; i++){
        if((currentForm.elements[i].value.length == 0)&&(i != 3)){
            errorNumber++;
            errorText = errorText + errorNumber + ". " + fieldNames[i] + " is empty\n";
        }
    }
    if(errorNumber > 0){
        alert(errorNumber + errorText);
        return false;
    }
    if(currentForm.ircPassword.value.length < 8){
        alert("error: please use passwords of length 8 or more");
        currentForm.ircPassword.select();
        return false;
    }
    return true;
}
function checkAgainstFrequency(textBoxRef){
    eval("var textBoxRefF = document." + textBoxRef.form.name + "." + textBoxRef.name.replace("_q", "_f") + ";");
    if(!isNaN(textBoxRefF.value)){
        textBoxRef.focus();
        textBoxRef.select();
        alert("Invalid string! Use numbers!");
        return false;
    }
    if((textBoxRefF.value) > parseInt(textBoxRefF.value)){
        textBoxRef.focus();
        textBoxRef.select();
        alert("That value exceeds the available quantity.\nPlease type a value <= to the available quantity");
        return false;
    }
    else{
        //recompute the total for the column where textBoxRef belongs...
        var textBoxRefNameArray = textBoxRef.name.split("_");
        textBoxRefNameArray[3] = "total";
        eval("var textBoxRefTotal = document." + textBoxRef.form.name + "." + textBoxRefNameArray.join("_") + ";");
        var colSum = 0;
        for(var i = 0; i < 5; i++){
            eval("colSum += parseInt(document." + textBoxRef.form.name + "." + textBoxRefTotal.name.replace("total", i) + ".value);");
        }
        textBoxRefTotal.value = colSum;
    }
}

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    }
}
function totalQuantityFrequency(){
for(var i = 0; i < document.examCoverageForm.elements.length; i++){
if(document.examCoverageForm.elements[i].name.indexOf("total") != -1){
var textBoxRefTotal = document.examCoverageForm.elements[i];
var colSum = 0;
for(var j = 0; j < 5; j++){
eval ("colSum += parseInt(document." + textBoxRefTotal.form.name + "." + textBoxRefTotal.name.replace("total", j) + ".value);");
}
textBoxRefTotal.value = colSum;
}
}
}
function checkBoxSelectToggle(eRef){
if(eRef.name.substr(0, 2) == "c_"){
eval ("var eRefNeg = document." + eRef.form.name + "." + eRef.name.replace("c_", "s_") + ";");
eRef.checked = false;
eRef.style.display = "none";
eRefNeg.style.display = "";
}
else{
eval ("var eRefNeg = document." + eRef.form.name + "." + eRef.name.replace("s_", "c_") + ";");
if(eRef.options[0].selected){
eRef.options[1].selected = true;
eRef.style.display = "none";
eRefNeg.style.display = "";
}
}
}
//update quantity and frequency based on the filters used...
updateQuantityFrequency(eRef);
}
function updateQuantityFrequency(filterRef){
var selRefName = "";
//if(filterRef.name.substr(0, 2) == "c_"){
selRefName = filterRef.name.replace("c_", "s_");
//}
selRefName = selRefName.substr(0, selRefName.length - 3);
var isi = new Array("id", "di", "pb");
var postVarArray = new Array();
for(var i = 0; i < isi.length; i++){
eval ("var tempSelectRef = document." + filterRef.form.name + "." + selRefName + "_" + isi[i] + ";");
if(tempSelectRef.style.display != "none"){
postVarArray[postVarArray.length] = isi[i] + "=" + tempSelectRef.selectedIndex;
}
else{
postVarArray[postVarArray.length] = isi[i] + "=0";
}
}
var eRefArray = selRefName.split("_");
postVarArray[postVarArray.length] = "topicId=" + eRefArray[1];
postVarArray[postVarArray.length] = "eRefName=" + selRefName;
eval ("var subWindow = window.open('/toes/admin/exam_Coverage.php?' + postVarArray.join("&") + '&', 'subWindow', 'WIDTH=" + (screen.width * .20) + ", HEIGHT=" + (screen.height * .20) + ", status');");
}
function manageCoverageFilter(filterCode, addDelete){
if(addDelete == "add"){
eval ("var subWindow = window.open('/toes/admin/exam_Filter.php?filterCode=" + filterCode + "&', 'subWindow', 'WIDTH=" + (450) + ", HEIGHT=" + (380) + ", status');");
}
if(addDelete == "del"){
var examCoverageCodeArray = document.examCoverageForm.examCoverageCode.value.split(",");
for(var i = 0; i < examCoverageCodeArray.length; i++){
if(filterCode == examCoverageCodeArray[i]){
examCoverageCodeArray.splice(i, 1);
}
}
document.examCoverageForm.examCoverageCode.value = examCoverageCodeArray.join(",");
document.examCoverageForm.examCoverageCodeFromSubWindowDelete.value = filterCode;
document.examCoverageForm.submit();
}
}
}
function totalFrequencyForTopic(totalName){
var total = 0;
eval ("var totalRef = document.examCoverageForm." + totalName + ";");
var tempA = totalName.split(",");
for(var i = 0; i < document.examCoverageForm.elements.length; i++){
if(document.examCoverageForm.elements[i].type == "select-one"){
var tempB = document.examCoverageForm.elements[i].name.split("_");
if(tempA[1] == tempB[1]){
total += parseInt(document.examCoverageForm.elements[i].options[document.examCoverageForm.elements[i].selectedIndex].value, 10);
}
}
}
totalRef.value = total;
}
}
function examCoverageFormSubmitJs(currentForm){
currentForm.activeTab.value = "Edit Exam";
currentForm.submit();
}
}
function toggleExamCoverageDisplay(spanId, buttonId){
var thiSSpan = document.getElementById(spanId);
var thisButton = document.getElementById(buttonId);
if(thisButton.value == "hide"){
thiSSpan.style.display = 'none';
thisButton.value = 'show';
}
else{
thiSSpan.style.display = '';
thisButton.value = 'hide';
}
}
}
function goToAnchor(questionId){
var thisButton = document.getElementById("b_" + questionId);
var thisAnchor = document.getElementById("a_" + questionId);

var showHideButton = new Array('buttonTrueOrFalse', 'buttonMultipleChoice', 'buttonMatchingType');

for(var i = 0; i < showHideButton.length; i++){
var currentButton = document.getElementById(showHideButton[i]);
if(currentButton.value == "show"){
currentButton.click();
}
}
if(thisButton.value == "[ ]"){
thisButton.click();
}
eval ("window.location = '#a_' + questionId + '";");
}
}
function availableTutoralRequestSortJs(col){
if(document.availableTutoralRequestSortForm.column.value == col){
if(document.availableTutoralRequestSortForm.direction.value == "ASC"){
document.availableTutoralRequestSortForm.direction.value = "DESC";
}
else{
document.availableTutoralRequestSortForm.direction.value = "ASC";
}
}
else{
}
}
}

```

```

        document.avai lableTutoral RequestSortForm.col umn.val ue = col ;
        document.avai lableTutoral RequestSortForm.di recti on.val ue = "DESC";
    }
    document.avai lableTutoral RequestSortForm.submi t();
}
functi on deacti vateStudentAccountConfi rm(currentForm){
    if(confi rm("You are about to DEACTI VATE ALL student accounts, do you want to conti nue?")){
        return true;
    }
    else{
        return false;
    }
}
functi on checkStudentNumberToEnl i st(currentForm){
    if(currentForm.studentNumberYear.val ue == ""){
        alert("error: i ncompl ete student number");
        currentForm.studentNumberYear.sel ect();
        return false;
    }
    if(currentForm.studentNumberNumber.val ue == ""){
        alert("error: i ncompl ete student number");
        currentForm.studentNumberNumber.sel ect();
        return false;
    }
    var re = /\d\d\d\d\d/;
    if(currentForm.studentNumberYear.val ue.search(re) == -1){
        alert("error: i nval id student number");
        currentForm.studentNumberYear.sel ect();
        return false;
    }
    var re = /\d\d\d\d\d\d/;
    if(currentForm.studentNumberNumber.val ue.search(re) == -1){
        alert("error: i nval id student number");
        currentForm.studentNumberNumber.sel ect();
        return false;
    }
    currentForm.studentNumberToEnl i stH.val ue = currentForm.studentNumberYear.val ue + "-" + currentForm.studentNumberNumber.val ue;
    currentForm.submi t();
}
functi on sendStudentNumberToDel i st(studentNumberToDel i st){
    if(confi rm("You are about to remove student (" + studentNumberToDel i st + ") from the\ntutorial schedule, do you want to conti nue?")){
        document.del i stStudentForm.studentNumberToDel i stH.val ue = studentNumberToDel i st;
        document.del i stStudentForm.submi t();
    }
    else{
        return false;
    }
}
functi on cl assLi stManager(){
    var cl assSi ze = prompt("Please speci fy the cl ass si ze (1-50):", "10");
    if(cl assSi ze != null){
        if(cl assSi ze.length == 1){
            var re = /\d/;
        }
        else if(cl assSi ze.length == 2){
            var re = /\d\d/;
        }
        else{
            alert("error: i nval id val ue please use a val ue ranging from 1 to 50.");
            return false;
        }
        if(cl assSi ze.search(re) == -1){
            alert("error: i nval id number");
            return false;
        }
        else{
            if((parsel nt(cl assSi ze, 10) > 50)|| (parsel nt(cl assSi ze, 10) < 0)){
                alert("error: number out of range, please l i mi t number from 1 to 50.");
                return false;
            }
        }
    }
}
eval ("cl assLi stWi ndow = wi ndow.open('/toes/admi n/cl assLi st.php?cs=" + cl assSi ze + "', 'cl assLi stWi ndow', 'WI DTH=" + (screen.wi dth * .5) +
", HEI GHT=" + (screen.hei ght * .5) + ", menubar, status, scrol l bars");");
functi on i ni ti ateChangeTutor(currentForm){
    currentForm.changeTutor.val ue = "yes";
    currentForm.submi t();
}
functi on admi ni sterExamRefresh(){
    document.forms[0].submi t();
}
functi on pageRefreshFuncti on(acti vati on){
    if(acti vati on == "enabl ed"){
        document.forms[0].pageRefreshActi vati on.val ue = "enabl ed";
    }
    else{
        cl earI nterval (admi ni sterExamRefreshI nterval I d);
        document.forms[0].pageRefreshActi vati on.val ue = "di sabl ed";
    }
    document.forms[0].submi t();
}
functi on toesAccountOnReset(accountType, currentForm){
    swi tch(accountType){
        case 'student':
            break;
        case 'tutor':
            break;
        case 'irc':
            document.IrcPersonnel Form.IrcPassword.focus();
            document.IrcPersonnel Form.IrcPassword.val ue = document.IrcPersonnel Form.IrcPasswordJ.val ue;
            break;
        default:
            break;
    }
}
functi on addStudentLi stFormProcess(currentForm, process){
    swi tch(process){
        case "add new row":
            currentForm.process.val ue = "addNewRow";
            currentForm.submi t();
            break;
        case "generate passwords":
            currentForm.process.val ue = "generatePasswords";
            currentForm.submi t();
            break;
        case "edi t student l i st":
            currentForm.process.val ue = "";
            //cl ear the password fi el ds...
            for(var i = 0; i < parsel nt(currentForm.studentCount.val ue, 10); i++){
                eval ('currentForm.password_' + i + '.val ue = ""');
            }
            for(var i = 0; i < currentForm.el ements.length; i++){
                currentForm.el ements[i].di sabl ed = false;
            }
            currentForm.submi t();
            break;
        case "print student l i st":
            currentForm.saveStudentLi st.di sabl ed = false;
    }
}

```

```

eval("var subWindow = window.open('/toes/admin/printStudentList.php?studentCount=" + currentForm.studentCount.value + "&college=" +
currentForm.college.value + "&course=" + currentForm.course.value + "','');");
break;
case "save student list":
if(confirm("Reminder: please make sure that you printed the student list.\nDo you want to continue?")){
for(var i = 0; i < currentForm.elements.length; i++){
currentForm.elements[i].disabled = false;
}
currentForm.process.value = "saveStudentList";
currentForm.submit();
}
break;
default:
break;
}
}
function addStudentListFormRemoveRow(currentForm, rowNum){
currentForm.rowToRemove.value = rowNum;
currentForm.submit();
}
function addStudentListFormCheck(currentForm){
var studentCount = parseInt(currentForm.studentCount.value, 10);
var studentNumberArray = new Array();
var currentStudentNumber = "";
//check for empty student_number fields and check format...
for(var i = 0; i < studentCount; i++){
eval("var currentElement = currentForm.studentNumberYear_" + i + ";");
if(currentElement.value.length == 0){
currentElement.focus();
currentElement.select();
alert("error: empty field!");
return false;
}
else{
if(!isNaN(currentElement.value)){
currentElement.focus();
currentElement.select();
alert("Invalid string! Use numbers!");
return false;
}
}
currentStudentNumber = currentElement.value;
eval("var currentElement = currentForm.studentNumberNumber_" + i + ";");
if(currentElement.value.length == 0){
currentElement.focus();
currentElement.select();
alert("error: empty field!");
return false;
}
else{
if(!isNaN(currentElement.value)){
currentElement.focus();
currentElement.select();
alert("Invalid string! Use numbers!");
return false;
}
}
//check for duplicate student_number values...
currentStudentNumber += currentElement.value;
for(var j = 0; j < studentNumberArray.length; j++){
if(studentNumberArray[j] == currentStudentNumber){
currentElement.focus();
currentElement.select();
alert("error: duplicate student number!");
return false;
}
}
studentNumberArray[studentNumberArray.length] = currentStudentNumber;
currentStudentNumber = "";
//check for empty lastname, middlename, firstname
var nameArray = new Array("lastName", "middleName", "firstName");
for(var j = 0; j < nameArray.length; j++){
eval("var currentElement = currentForm." + nameArray[j] + "_" + i + ";");
if(currentElement.value.length == 0){
currentElement.focus();
currentElement.select();
alert("error: empty field!");
return false;
}
}
}
if(confirm("Please check if all students for the current block are already listed.\nDo you want to continue?")){
addStudentListFormProcess(currentForm, "generate passwords");
}
}

```

D. DIRECTOR

```

director.php
<?php
session_start();
require_once('..../toes/inc.php');
require_once('director_Fcn.php');
if($firstVisit == "true"){
$errorMessage = "";
}
$username:
$password:
if($logout == '1'){
session_unregister("username");
session_unregister("password");
session_unregister("hasLoggedIn");
session_unregister("errorMessage");
session_unregister("userScript");
session_unset();
session_destroy();
$logout = 0;
$hasLoggedIn = 0;
$errorMessage = "";
$returnToHomepage = true;
}
if(($login)&&($logout != '1')){
authorized_User();
session_register("hasLoggedIn");
header("Location: " . $_SERVER["HTTP_HOST"] . $_SERVER["PHP_SELF"]);
}
if(($SESSION["hasLoggedIn"] == '1')&&($SESSION["userScript"] == 'director.php')){
if($activeNav == ""){

```

```

    $activeNav = "Exam Statistics";
}
print_Top_Nav();
print_Banner();
print_Nav();
print_Tab();
print_Body();
print_Footer();
}
else{
    if($hasLoggedIn == '2'){
        //echo "errorMessage";
        //echo "<br>";
    }
    display_Login_Form();
}
////////////////////////////////////
function print_Top_Nav(){
    global $activeNav;
    global $activeTab;
    if($activeTab == "Exam Batch Analysis To Exam Analysis"){
        global $idToAnalyze;
        connect_Db();
        $query = "SELECT exam_id FROM batch WHERE batch_id=' $idToAnalyze' ";
        $result = mysql_query($query);
        $myrow = mysql_fetch_row($result);
        $idToAnalyze = $myrow[0];
        $activeTab = "Exam Analysis";
    }
    print("<html>");
    print("<head>");
    print("<title>DIRECTOR Module</title>");
    echo "<SCRIPT LANGUAGE='JavaScript' SRC='director_JavaScript.js'></SCRIPT>";
    print("<link rel='stylesheet' type='text/css' href='director_style.css' />");
    print("</head>");
    print("<body onload='window.onload(' $activeNav', ' $activeTab')'>");
    //print("<body>");
    print("<div>");
    print("<ul class='topnav'>");
    print("<li><a href=' /custhelp.php?statpos=topnav'>Help</a></li>");
    print("<li class='lastli'><a href=' ?Logout=1'>Logout</a></li>");
    print("</ul>");
    print("</div>");
    print("<br>");
}
////////////////////////////////////
function print_Banner(){
    global $username;
    echo "<div class='banner'>";
    echo "<table>";
    echo "<tr><td height='100px' width='382px' background=' /toes/files/pi/cs/toes_logo.jpg'></td>";
    echo "<td height='100px' width='200px' background=' /toes/files/pi/cs/maj_n-page_logos_upm_lrc.gif'></td>";
    echo "<td height='100px' width='382px' background=' /toes/files/pi/cs/director.gif' align='center' valign='bottom' style='padding-bottom: 10px;'><font style='vertical-align: text-bottom; size=4px; color=' #808080'>Username</font></td>";
    echo "</tr></table>";
    echo "</div>";
}
////////////////////////////////////
function print_Nav(){
    global $activeNav;
    global $activeTab;
    print("<div id='nav'><div>");
    if($activeNav == "Exam Statistics")
        print("<li class='navselected'>");
    else
        print("<li>");
    print("<a href='?activeNav=Exam Statistics&activeTab=Exam Statistics'>Exam Statistics</a></li>");
    if($activeNav == "My Account")
        print("<li class='navselected'>");
    else
        print("<li class='lastli'>");
    print("<a href='?activeNav=My Account&activeTab=My Account'>My Account</a></li>");
    print("&nbsp;");
    print("</ul>");
    print("</div></div>");
    //print("<br>");
    echo "<div style='background-color: FFFFFF; font-size: 75%;'>&nbsp;</div>";
    //print("<table width='100%' bgcolor='white' border='1'><tr><td>&nbsp;</td></tr></table>");
}
////////////////////////////////////
function print_Tab(){
    global $activeNav;
    global $activeTab;
    print("<div id='content'>");
    print("<ul class='tabs'>");
    switch($activeNav){
        case "Exam Statistics":
            if($activeTab == ""){
                $activeTab = "Search Exam";
            }
            if($activeTab == "Search Exam")
                print("<li class='tabselected'>Search Exam</li>");
            else
                print("<li><a href='?activeNav=$activeNav&activeTab=Search Exam'>Search Exam</a></li>");
            if($activeTab == "Exam Analysis")
                print("<li class='tabselected'>Exam Analysis</li>");
            if($activeTab == "Exam Batch Analysis")
                print("<li class='tabselected'>Exam Batch Analysis</li>");
            if($activeTab == "Examinee Manager")
                print("<li class='tabselected'>Examinee Manager</li>");
            break;
        case "Item Statistics":
            if($activeTab == "Search Item")
                print("<li class='tabselected'>Search Item</li>");
            else
                print("<li><a href='?activeNav=$activeNav&activeTab=Search Item&Subject=any&Topic=any&QuestionType=any&QIDfficultly=any&SortedBy=QuestionID&QIDrection=ascending'>Search Item</a></li>");
            if($activeTab == "Item Analysis")
                print("<li class='tabselected'>Item Analysis</li>");
            break;
        case "My Account":
            if($activeTab == ""){
                $activeTab = "Change Password";
            }
            if($activeTab == "Change Password")
                print("<li class='tabselected'>Change Password</li>");
            else
                print("<li><a href='?activeNav=$activeNav&activeTab=Change Password'>Change Password</a></li>");
            break;
        default:
            break;
    }
    print("</ul>");
}
////////////////////////////////////
function print_Body(){
    //echo "<button onclick='return subok()'>TRY</button>";
}

```



```

print("<div class='content'>");
print("<div class='inside'>");
//print("<div class='insidebody'>");

print_Function();

//print("</div>");
print("</div>");
print("</div>");
}
////////////////////////////////////
function print_Function(){
    global $activeNav;
    global $activeTab;
    global $exameditFromBrowse;
    switch($activeNav){
        case 'Exam Statistics':
            switch($activeTab){
                case 'Search Exam':
                    exam_Query();
                    break;
                case 'Exam Analysis':
                    exam_Analysis();
                    break;
                case 'Exam Batch Analysis':
                    exam_Analysis();
                    break;
                case 'Examinee Manager':
                    examinee_Manage();
                    break;
                default:
                    print("Please select from the tabbed-menu");
                    break;
            }
        break;
        case 'Item Statistics':
            switch($activeTab){
                case 'Search Item':
                    question_Query();
                    break;
                case 'Item Analysis':
                    exam_Analysis();
                    break;
                default:
                    print("Please select from the tabbed-menu");
                    break;
            }
        break;
        case 'My Account':
            switch($activeTab){
                case 'Change Password':
                    manage_password();
                    break;
                default:
                    print("Please select from the tabbed-menu");
                    break;
            }
        break;
        default:
            print("Please select from the menu");
            break;
    }
}
////////////////////////////////////
function print_Footer(){
    print("<div>");
    print("<div id='footer'>");
    print("<div>University of the Philippines Manila, Learning Resource Center's</div>");
    print("<div>tutorial and Online Examination (TOES)</div>");
    print("<div>copyright © 2006</div>");
    print("</div>");
    print("<div style='width: 780px'>&nbsp;&nbsp;&nbsp;</div>");
    print("</div>");
    echo "<div style='background-color: #008000'>&nbsp;&nbsp;&nbsp;</div>";
    print("</body>");
    print("</html>");
}
////////////////////////////////////
function toHtml($htmlLine){
    return (str_replace("\n", "\\n", $htmlLine));
}
////////////////////////////////////
function authorized_User(){
    global $username;
    global $password;
    global $errorMessage;
    global $hasLoggedIn;
    global $userScript;

    connect_Db();
    $query = "SELECT * FROM irc_personnel where username=' $username' and password=' $password' and personnelType='Irc Director' ";
    $result = mysql_query($query);
    $myrow = mysql_fetch_array($result);

    if(($username != NULL)&&($password != NULL)&&($myrow[username] == $username)&&($myrow[password] == $password)){
        $hasLoggedIn=1;
        session_register("hasLoggedIn");
        session_register("username");
        session_register("password");
        $userScript= 'director.php';
        session_register("userScript");
    }
    else{
        if(($username == NULL)||($password == NULL)){
            $errorMessage = "error: Please enter your username and password!";
        }
        else{
            $errorMessage = "error: Invalid username or password!";
        }
        session_register("errorMessage");
        $hasLoggedIn=2;
        session_register("hasLoggedIn");
    }
}
////////////////////////////////////
function display_Login_Form(){
    global $username;
    global $password;
    global $hasLoggedIn;
    global $Logout;
    global $errorMessage;
    global $returnToHomepage;

    echo "<html style='background-image: url(\"/toes/files/pics/toes_logo_userLogin.jpg\");' >";
    echo "<head>";
    echo "<title>DIRECTOR Login Page</title>";
    echo "<SCRIPT LANGUAGE='JavaScript' SRC='director_JavaScript.js'></SCRIPT>";
    echo "</head>";
}

```

```

if($returnToHomepage){
    echo "<body onLoad='window.location=\"/toes/\">";
}
else{
    echo "<body onLoad='animateUsingToesColors(\"toesHomeLink\")'>";
}
echo "<table width='100%' height='100%' border='0' cellpadding='0' cellspacing='0'>";
echo "<tr><td valign='middle' align='center'>";
echo "<table align='center' border='0' cellpadding='0' cellspacing='0'>";
echo "<tr><td align='right' bgcolor='#000000'><b><a id='toesHomeLink' href='/toes/' style='color:white;text-decoration:none;'>back to TOES
home page</a></b></td></tr>";
echo "<tr><td><a href='/toes/index.php' title='home'><img src='/toes/files/pics/toes.gif' style='border: 0 none;'/></a></td></tr>";
echo "<tr><td bgcolor='#000000'><img src='/toes/files/pics/director_o.gif'></td></tr>";
echo "<tr><td align='center' bgcolor='#000000'>";
//echo "[username=$username][password=$password][hasLoggedIn=$hasLoggedIn][Logout=$Logout][userScript=$userScript]";
print("<table bgcolor='#c0c0c0'>");
print("<form name='loginForm' method='post' action='$PHP_SELF' onSubmit='return loginFormCheck(this)'>");
if($errorMessage != ""){
    echo "<tr><td colspan='2'>$errorMessage</td></tr>";
}
print("<tr><td>Username:</td><td><input type='text' name='username'></td></tr>");
print("<tr><td>Password:</td><td><input type='password' name='password'></td></tr>");
print("<tr><td colspan='2' align='center'><input type='submit' name='login' value='Login'></td></tr>");
print("</form>");
echo "</table>";
echo "</td></tr>";
echo "<tr><td bgcolor='#000000'>&nbsp;</td></tr>";
echo "</td></tr></table>";
echo "</body>";
echo "</html>";
}
////////////////////////////////////
function refresh_Page($location){
    header("Location: $location");
}
////////////////////////////////////
function connect_Db() {
    // $buser = ' ';
    // $dbpassword = ' ';
    // $dbhost = 'local host';
    // $dbname = 'eav';
    // $db_connection = mysql_connect ($dbhost, $dbuser, $dbpassword);
    // mysql_select_db ($dbname);
    $db = mysql_connect("local host", "");
    mysql_select_db("toes", $db);
}
////////////////////////////////////
?>

```

director_Fcns.php

```

<?php
////////////////////////////////////
function exam_Query(){
    foreach($GLOBALS as $key=>$value){
        if (ereg("[a-z]", $key[0], $array) ){
            global $$key;
        }
    }

    //display the query filters...
    echo " ";
    echo "Please use the following filters: ";
    echo "<form name='examQuery' action='?acti veNav=$acti veNav&acti veTab=$acti veTab' method='POST' onReset='hide_examDescriptionString()';
style='display:inline'>";
    echo "<table border='1'>";
    echo "<tr><td colspan='2' align='center'>Exam Search Filters</td></tr>";

    echo "<tr><td>Subject</td><td>";
    connect_Db();
    $query = "SELECT subject_id, subjectName FROM subject";
    $result = mysql_query($query);
    echo "<input type='hidden' name='examSubjectHidden' value='\$examSubject'>";
    echo "<select name='examSubject'>";
    echo "<option value='any'>any</option>";
    while($myrow = mysql_fetch_row($result)){
        echo "<option value='\$myrow[0]'> \$myrow[1]</option>";
    }
    echo "</select>";
    echo "</td></tr>";

    echo "<tr><td rowspan='2'>Description</td><td>";
    echo "records ";
    echo "<input type='hidden' name='examDescriptionMatchingHidden' value='any'>";
    echo "<select name='examDescriptionMatching' onChange='return unhide_examDescriptionMatchingString()'>";
    echo "<option value='any'>any</option>";
    echo "<option value='with at least one of the words'>with at least one of the words</option>";
    echo "<option value='with the exact phrase'>with the exact phrase</option>";
    echo "<option value='with all of the words'>with all of the words</option>";
    echo "<option value='without the words'>without the words</option>";
    echo "</select>";
    echo "</td></tr>";
    echo "<input type='hidden' name='examDescriptionStringHidden' value='\$examDescriptionString'>";
    if(($redirectedFromEdit == 'yes') || ($redirectedFromExamSchedule == 'yes')){
        echo "<td><input type='text' name='examDescriptionString' size='38' style='display:none' /></td>";
    }
    else{
        echo "<td><input type='text' name='examDescriptionString' size='38' /></td>";
    }
    echo "</tr>";

    echo "<tr><td>Author</td><td>";
    $query = "SELECT DISTINCT(author) FROM exam";
    $result = mysql_query($query);
    echo "<input type='hidden' name='examAuthorHidden' value='\$examAuthor'>";
    echo "<select name='examAuthor'>";
    echo "<option value='any'>any</option>";
    while($myrow = mysql_fetch_row($result)){
        echo "<option value='\$myrow[0]'> \$myrow[0]</option>";
    }
    echo "</select>";
    echo "</td></tr>";

    echo "<tr><td>Allotted Time</td><td>";
    $query = "SELECT DISTINCT(allottedTime) FROM exam";
    $result = mysql_query($query);
    echo "<input type='hidden' name='examAllottedTimeHidden' value='\$examAllottedTime'>";
    echo "<select name='examAllottedTime'>";
    echo "<option value='any'>any</option>";
    while($myrow = mysql_fetch_row($result)){
        echo "<option value='\$myrow[0]'> \$myrow[0]</option>";
    }
    echo "</select>";
    echo "</td></tr>";

    echo "<tr><td>Departmental Number</td><td>";
    $query = "SELECT DISTINCT(allottedTime) FROM exam";
    $result = mysql_query($query);
}

```

```

echo "<input type='hidden' name='examDepartmentalNumberHidden' value='\$examDepartmentalNumber'>";
echo "<select name='examDepartmentalNumber'>";
echo "<option value='any'>any</option>";
\$deptNumString = array("first departmental", "second departmental", "third departmental", "fourth departmental", "fifth departmental",
"sixth departmental", "seventh departmental");
for(\$i = 0; \$i < count(\$deptNumString); \$i++){
echo "<option value='\$deptNumString[\$i]'> \$deptNumString[\$i]</option>";
}
echo "</select>";
echo "</td></tr>";

echo "<tr><td rowspan='2'>";
echo "<input type='hidden' name='examDateWhi chHidden' value='\$examDateWhi ch'>";
echo "<input type='radio' name='examDateWhi ch' value='Date Created' onClick='return examDateResetYear(this.s.form)' checked='checked'>Date
Created<br>";
echo "<input type='radio' name='examDateWhi ch' value='Batch Schedule' onClick='return examDateResetYear(this.s.form)'>Batch Schedule";
echo "</td><td rowspan='2'>";
echo "Year ";
echo "<input type='hidden' name='examDateYearHidden' value='\$examDateYear'>";
echo "<select name='examDateYear'>";
echo "<option value='>'>any</option>";
if(\$examDateWhi ch == 'Date Created'){
\$query = "SELECT dateCreated FROM exam ORDER BY dateCreated ASC";
}
if(\$examDateWhi ch == 'Batch Schedule'){
\$query = "SELECT batch.date FROM exam, batch WHERE exam.exam_id=batch.exam_id ORDER BY dateCreated ASC";
}
\$result = mysql_query(\$query);
//\$examDateYearArray;
while(\$myrow = mysql_fetch_row(\$result)){
\$tempInTheArray = 0;
foreach(\$examDateYearArray as \$temp){
if(\$temp == substr(\$myrow[0], 0, 4)){
\$tempInTheArray = 1;
continue;
}
}
if(\$tempInTheArray == 0){
\$examDateYearArray[] = substr(\$myrow[0], 0, 4);
}
}
foreach(\$examDateYearArray as \$temp){
echo "<option value='\$temp'> \$temp</option>";
}
echo "</select>";
echo "Month ";
echo "<input type='hidden' name='examDateMonthHidden' value='\$examDateMonth'>";
echo "<select name='examDateMonth'>";
echo "<option value='>'>any</option>";
echo "<option value='01'>January</option>";
echo "<option value='02'>February</option>";
echo "<option value='03'>March</option>";
echo "<option value='04'>April</option>";
echo "<option value='05'>May</option>";
echo "<option value='06'>June</option>";
echo "<option value='07'>July</option>";
echo "<option value='08'>August</option>";
echo "<option value='09'>September</option>";
echo "<option value='10'>October</option>";
echo "<option value='11'>November</option>";
echo "<option value='12'>December</option>";
echo "</select>";
echo "</td></tr>";
echo "<tr><td>";
echo "<input type='hidden' name='examSortedByHidden' value='\$examSortedBy'>";
echo "<select name='examSortedBy'>";
echo "<option value='Exam Id'>Exam Id</option>";
echo "<option value='Subject Name'>Subject Name</option>";
echo "<option value='Description'>Description</option>";
echo "<option value='Author'>Author</option>";
echo "<option value='Allotted Time'>Allotted Time</option>";
echo "<option value='Date Created'>Date Created</option>";
echo "</select>";
echo "</td></tr>";

echo "<tr><td rowspan='2'>Di rection</td><td>";
echo "<input type='hidden' name='examDi rectionHidden' value='\$examDi rection'>";
echo "<input type='radio' name='examDi rection' value='ascending' checked='checked'>ascending";
echo "</td></tr>";
echo "<td><input type='radio' name='examDi rection' value='descending'>descending</td></tr>";

echo "<tr><td>Di spl ay</td><td>";
echo "<input type='hidden' name='examNumResul tsi dden' value='\$examNumResul ts'>";
echo "<select name='examNumResul ts'>";
echo "<option value='10'>10</option>";
echo "<option value='20'>20</option>";
echo "<option value='30'>30</option>";
echo "<option value='40'>40</option>";
echo "<option value='50'>50</option>";
echo "</select> per page";
echo "</td></tr>";
echo "<tr><td colspan='2' align='center'><input type='submit' name='fi lter' value='search'><button type='reset' name='reset'
value='reset'>reset</button></td></tr>";
echo "</table>";
echo "</form>";

//di spl ay the exam records...
if(\$fi lter == 'search'){
if((\$examSubj ect == 'any')&&(\$examDescri pti onMatchi ng == 'any')&&(\$examAuthor == 'any')&&(\$examAl lottedTi me == 'any')&&(\$examDateYear ==
'any')&&(\$examDateMonth == 'any')){
\$queryString = "SELECT * FROM exam, subj ect, batch WHERE exam.subj ect_id=subj ect.subj ect_id";
}
else{
if(\$examDateWhi ch == 'Batch Schedule'){
\$queryString = "SELECT * FROM exam, subj ect, batch WHERE";
}
else{
\$queryString = "SELECT * FROM exam, subj ect WHERE";
}
}
\$wherePart[] = "exam.subj ect_id=subj ect.subj ect_id";
if((\$examSubj ect != 'any')&&(\$examSubj ect != '')){
\$wherePart[] = "exam.subj ect_id='\$examSubj ect'";
}
if((\$examDescri pti onMatchi ng != 'any')&&(\$examDescri pti onMatchi ng != '')){
\$examDescri pti onStringArray = explode(" ", \$examDescri pti onString);
swi tch(\$examDescri pti onMatchi ng){
case 'with at least one of the words':
\$fi nalString = "(";
for(\$i = 0; \$i < count(\$examDescri pti onStringArray); \$i++){
if(\$i == count(\$examDescri pti onStringArray) - 1){
\$fi nalString = \$fi nalString."exam.descri pti on LIKE '%'. trim(\$examDescri pti onStringArray[\$i]). '%'";
}
else{
\$fi nalString = \$fi nalString."exam.descri pti on LIKE '%'. trim(\$examDescri pti onStringArray[\$i]). '%' OR ";
}
}
}
\$fi nalString = \$fi nalString.")";
}
}

```

```

break;
case 'with the exact phrase':
    $finalString = "exam.description LIKE '%'. trim($examDescriptionString). "% ";
break;
case 'with all of the words':
    $finalString = "(";
    for($i = 0; $i < count($examDescriptionStringArray); $i++){
        if($i == count($examDescriptionStringArray) - 1){
            $finalString = $finalString."exam.description LIKE '%'. trim($examDescriptionStringArray[$i]). "% ";
        }
        else{
            $finalString = $finalString."exam.description LIKE '%'. trim($examDescriptionStringArray[$i]). "% AND ";
        }
    }
    $finalString = $finalString.")";
break;
case 'without the words':
    $finalString = "(";
    for($i = 0; $i < count($examDescriptionStringArray); $i++){
        if($i == count($examDescriptionStringArray) - 1){
            $finalString = $finalString."exam.description NOT LIKE '%'. trim($examDescriptionStringArray[$i]). "% ";
        }
        else{
            $finalString = $finalString."exam.description NOT LIKE '%'. trim($examDescriptionStringArray[$i]). "% OR ";
        }
    }
    $finalString = $finalString.")";
break;
default:
    break;
}
$wherePart[] = $finalString;
}
if(($examAuthor != 'any') && ($examAuthor != '')){
    $wherePart[] = "exam.author=' $examAuthor' ";
}
if(($examAllottedTime != 'any') && ($examAllottedTime != '')){
    $wherePart[] = "exam.allottedTime=' $examAllottedTime' ";
}
if(($examDepartmentalNumber != 'any') && ($examDepartmentalNumber != '')){
    $wherePart[] = "exam.deptNum=' $examDepartmentalNumber' ";
}
if(($examDateWhich == 'Date Created') || ($examDateWhich == 'Batch Scheduled') && (!(($examDateYear == '____') && ($examDateMonth == '____'))){
    if($examDateWhich == 'Date Created'){
        $wherePart[] = "(exam.dateCreated LIKE ' $examDateYear-$examDateMonth%' )";
    }
    else{
        $wherePart[] = "exam.exam_id=batch.exam_id";
        $wherePart[] = "(batch.date LIKE ' $examDateYear-$examDateMonth%' )";
    }
}
for($i = 0; $i < count($wherePart); $i++){
    if($i == count($wherePart) - 1){
        $queryString = $queryString." $wherePart[$i]";
    }
    else{
        $queryString = $queryString." $wherePart[$i] AND";
    }
}
}
if(($examDateWhich == 'Date Created') || ($examDateWhich == 'Batch Scheduled')){
    $queryString = $queryString." GROUP BY exam.exam_id";
}
switch($examSortedBy){
case 'Exam Id':
    $queryString = $queryString." ORDER BY exam.exam_id";
break;
case 'Subject Name':
    $queryString = $queryString." ORDER BY subject.subjectName";
break;
case 'Description':
    $queryString = $queryString." ORDER BY exam.description";
break;
case 'Author':
    $queryString = $queryString." ORDER BY exam.author";
break;
case 'Allotted Time':
    $queryString = $queryString." ORDER BY exam.allottedTime";
break;
case 'Date Created':
    $queryString = $queryString." ORDER BY exam.dateCreated";
break;
default:
    break;
}
}
if($examDirection == 'ascending'){
    $queryString = $queryString." ASC";
}
else{
    $queryString = $queryString." DESC";
}
}
// $date = date("M d, Y h: i: s A", time());
//echo "[ $queryString] [ $date]-br>";
echo "<br><hr width='100%' size='1' align='left' color='#008000' />";
//query the query string
if($filter == 'search'){
    //determine how many records...
    $resultQuery = mysql_query($queryString);
    $num_records = mysql_num_rows($resultQuery);
    $display_number = $examNumResults;
    if ($num_records > $display_number) {
        $num_pages = ceil ($num_records/$display_number);
    } else {
        $num_pages = 1;
    }
    //Determine where in the database to start returning results...
    if (isset($_GET['s'])) {
        $start = $_GET['s'];
    } else {
        $start = 0;
    }
}
//retrieve the records applying LIMIT...
$queryString = $queryString." LIMIT '$start', '$display_number';
$resultQuery = mysql_query($queryString);

if(mysql_num_rows($resultQuery) == 0){
    echo "<center>0 results returned</center>";
}
else{
    /*#008BBB #FOFFFO*/
    echo "<table border='0' bgcolor='#F1FBF1' width='100%' cellpadding='10px' align='center'>";
    if($num_records < ((($start/$display_number) + 1) * $display_number)){
        echo "<tr><td align='right'>Result ". ($start + 1). " - ". $num_records." of about $num_records</td></tr>";
    }
    else{
        echo "<tr><td align='right'>Result ". ($start + 1). " - ". (((($start/$display_number) + 1) * $display_number). " of about $num_records</td></tr>";
    }
}
}

```



```

function getAttributeCount($questionid){
    connect_Db();
    $query = "SELECT objects FROM question WHERE question_id=' $questionid ' ";
    $result = mysql_query($query);
    $myrow = mysql_fetch_row($result);
    $myrow[0] = str_replace("/", "\\", $myrow[0]). ".htm";
    if($fo = fopen($myrow[0], "r")){
        while(!feof($fo)){
            $origline = fgets($fo, 1024);
            if(ereg("name=matchingTypeTagAttributeCount' value='(.*)'", $origline, $sarr)){
                flock($fo, 3);
                fclose($fo);
                return $sarr[1];
            }
        }
        flock($fo, 3);
        fclose($fo);
    }
}
////////////////////////////////////
function questionQuery(){
    foreach($GLOBALS as $key=>$value){
        if (ereg("[a-z]", $key[0], $sarray )){
            global $$key;
        }
    }
    if($redirectedFromEdit == 'yes'){
        echo "Please choose the question to be edited<br>";
    }
    if($questionToDelete != ''){
        connect_Db();
        $query = "SELECT objects FROM question WHERE question_id=' $questionToDelete ' ";
        $result = mysql_query($query);
        $myrow = mysql_fetch_row($result);
        $fileLink = $myrow[0];
        unlink($fileLink. ".doc");
        unlink($fileLink. ".htm");
        $fileLink = $fileLink. ".files";
        if(is_dir($fileLink)){
            $dh = opendir($fileLink);
            while(gettype($file = readdir($dh)) != boolean){
                if(is_file($fileLink. "\\. $file)){
                    //echo "$file";
                    unlink($fileLink. "\\. $file);
                }
            }
            closedir($dh);
            rmdir($fileLink);
        }
        //delete the linked multimedia files...
        $query = "SELECT src FROM file WHERE question_id=' $questionToDelete ' ";
        $result = mysql_query($query);
        while($myrow = mysql_fetch_row($result)){
            unlink($myrow[0]);
        }
        $query = "DELETE FROM file WHERE question_id=' $questionToDelete ' ";
        $result = mysql_query($query);
        $query = "DELETE FROM question WHERE question_id=' $questionToDelete ' ";
        $result = mysql_query($query);
        echo "Question id: $questionToDelete has been deleted<br>";
    }
    //display the query filters...
    echo "Please use the following filters:";
    echo "<table border='1' >";
    echo "<tr><td colspan='3' align='center'>Question Search Filters</td></tr>";
    echo "<tr><td>Subject</td><td>";
    connect_Db();
    $query = "SELECT subject_id, subjectName FROM subject";
    $result = mysql_query($query);
    echo "<input type='hidden' name='hSubject' value=' $qSubject' >";
    echo "<select name='qSubject' >";
    echo "<option value='any' >any</option>";
    while($myrow = mysql_fetch_row($result)){
        echo "<option value=' $myrow[0]' >$myrow[1]</option>";
    }
    echo "</select>";
    echo "</td><td>";
    echo "<input type='submit' name='filter' value='go' >";
    echo "</td></tr>";
    echo "<tr><td>Topic</td><td>";
    echo "<input type='hidden' name='hTopic' value=' $qTopic' >";
    $query = "SELECT topic_id, topicName FROM topic WHERE subject_id=' $qSubject' ";
    $result = mysql_query($query);
    echo "<select name='qTopic' >";
    if($qSubject == 'any'){
        $qTopic = 'any';
        echo "<option value='any' >any</option>";
    }
    elseif(mysql_num_rows($result) == 0){
        $filter = "subject chosen has no topics";
        echo "<option value='subject chosen has no topics' >subject chosen has no topics</option>";
    }
    elseif($qTopic == 'subject chosen has no topics'){
        $qTopic = 'any';
    }
    echo "<option value='any' >any</option>";
    while($myrow = mysql_fetch_row($result)){
        echo "<option value=' $myrow[0]' >$myrow[1]</option>";
    }
    echo "</select>";
    echo "</td><td>";
    echo "<input type='submit' name='filter' value='go' >";
    echo "</td></tr>";
    echo "<tr><td>Difficulty</td><td>";
    echo "<input type='hidden' name='hDifficulty' value=' $qDifficulty' >";
    echo "<select name='qDifficulty' >";
    echo "<option value='any' >any</option>";
    echo "<option value='true or false' >true or false</option>";
    echo "<option value='matching type' >matching type</option>";
    echo "<option value='essay' >essay</option>";
    echo "<option value='problem solving' >problem solving</option>";
    echo "</select>";
    echo "</td><td>";
    echo "<input type='submit' name='filter' value='go' >";
    echo "</td></tr>";
    echo "<tr><td>Difficulty</td><td>";
    echo "<input type='hidden' name='hDifficulty' value=' $qDifficulty' >";
    echo "<select name='qDifficulty' >";
    echo "<option value='any' >any</option>";
    echo "<option value='very easy' >very easy</option>";
    echo "<option value='easy' >easy</option>";
    echo "<option value='medium' >medium</option>";
    echo "<option value='hard' >hard</option>";
    echo "<option value='very hard' >very hard</option>";
    echo "</select>";
}

```

```

echo "</td><td>";
echo "<input type='submit' name='filter' value='go'>";
echo "</td></tr>";
echo "<tr><td>Sorted By:</td><td>";
echo "<input type='hidden' name='hSortedBy' value='\$SortedBy'>";
echo "<select name='qSortedBy'>";
echo "<option value='Question Id'>Question Id</option>";
echo "<option value='Topic Name'>Topic Name</option>";
echo "<option value='Question Type'>Question Type</option>";
echo "<option value='Author'>Author</option>";
echo "<option value='Diffficultty'>Diffficultty</option>";
echo "</select>";
echo "</td><td>";
echo "<input type='submit' name='filter' value='go'>";
echo "</td></tr>";

echo "<tr><td rowspan='2'>Direction</td><td>";
echo "<input type='hidden' name='hDirection' value='\$Direction'>";
echo "<input type='radio' name='qDirection' value='ascending' checked='checked'>ascending";
echo "</td><td>";
echo "<input type='submit' name='filter' value='go'>";
echo "</td></tr>";
echo "<td><input type='radio' name='qDirection' value='descending'>descending</td><td>";
echo "<input type='submit' name='filter' value='go'></td></tr>";

echo "<tr><td>Display</td><td>";
echo "<input type='hidden' name='hNumResults' value='\$NumResults'>";
echo "<select name='qNumResults'>";
echo "<option value='1'>1</option>";
echo "<option value='2'>2</option>";
echo "<option value='3'>3</option>";
echo "<option value='4'>4</option>";
echo "<option value='5'>5</option>";
echo "<option value='6'>6</option>";
echo "</select> per page";
echo "</td><td>";
echo "<input type='submit' name='filter' value='go'>";
echo "</td></tr>";
echo "<tr><td colspan='3' align='center'><input type='submit' name='filter' value='search'><button type='reset' name='reset'
value='reset'>reset</button></td></tr>";
echo "</form>";
echo "</table>";

if(\$filter == 'search'){
  if((\$topic == 'any')&&(\$questionType == 'any')&&(\$difficultty == 'any')){
    \$queryString = "SELECT question.question_id, subject.subjectName, topic.topicName, question.questionType, question.objects,
question.author, question.diffficultty FROM question, subject, topic WHERE question.topic_id=topic.c.topic_id AND
subject.subject_id=topic.c.subject_id";
  }
  else{
    \$queryString = "SELECT question.question_id, subject.subjectName, topic.topicName, question.questionType, question.objects,
question.author, question.diffficultty FROM question, subject, topic WHERE question.topic_id=topic.c.topic_id AND
subject.subject_id=topic.c.subject_id";
    if((\$topic != 'any')&&(\$topic != "")){
      \$wherePart[] = "question.topic_id='\$topic'";
    }
    if((\$questionType != 'any')&&(\$questionType != "")){
      \$wherePart[] = "question.questionType='\$questionType'";
    }
    if((\$difficultty != 'any')&&(\$difficultty != "")){
      \$wherePart[] = "question.diffficultty='\$difficultty'";
    }
    for(\$i = 0; \$i < count(\$wherePart); \$i++){
      \$queryString = \$queryString . " AND \$wherePart[\$i]";
    }
  }
  switch(\$SortedBy){
    case 'Question Id':
      \$queryString = \$queryString . " ORDER BY question.question_id";
      break;
    case 'Topic Name':
      \$queryString = \$queryString . " ORDER BY topic.topicName";
      break;
    case 'Question Type':
      \$queryString = \$queryString . " ORDER BY question.questionType";
      break;
    case 'Author':
      \$queryString = \$queryString . " ORDER BY question.author";
      break;
    case 'Diffficultty':
      \$queryString = \$queryString . " ORDER BY question.diffficultty";
      break;
    default:
      break;
  }
  if(\$Direction == 'ascending'){
    \$queryString = \$queryString . " ASC";
  }
  else{
    \$queryString = \$queryString . " DESC";
  }
  if(\$topic == 'subject chosen has no topics'){
    \$filter = 'subject chosen has no topics';
  }
}

echo "[\$queryString]<br>";
echo "<br><hr width='100%' size='1' align='left' color='#008000' />";
//query the query string
if(\$filter == 'subject chosen has no topics'){
  echo "subject chosen has no topics";
}
else if(\$filter == 'search'){
  //determine how many records...
  \$resultQuery = mysql_query(\$queryString);
  \$num_records = mysql_num_rows(\$resultQuery);
  \$display_number = \$NumResults;
  if (\$num_records > \$display_number) {
    \$num_pages = ceil (\$num_records/\$display_number);
  } else {
    \$num_pages = 1;
  }
  //Determine where in the database to start returning results...
  if (isset($_GET['s'])) {
    \$start = $_GET['s'];
  } else {
    \$start = 0;
  }
  //retrieve the records applying LIMIT...
  \$queryString = \$queryString . " LIMIT '$start', '$display_number';";
  \$resultQuery = mysql_query(\$queryString);

  if(mysql_num_rows(\$resultQuery) == 0){
    echo "<center>0 results returned</center>";
  }
  else{
    /*#008BBB #FFFFFF*/
    echo "<table class='questionResults' border='0' bgcolor='#F1FBF1' width='100%' cellpadding='10px' align='center'>";
    if(\$num_records < ((\$start/\$display_number) + 1) * \$display_number){

```



```
echo "<tr><td>username</td><td><input type='text' name='usernameNew' maxLength='16' size='16' value='$username' /></td></tr>";
echo "<tr><td>old password</td><td><input type='password' name='passwordOld' maxLength='16' size='16' /></td></tr>";
echo "<tr><td>new password</td><td><input type='password' name='passwordNew' maxLength='16' size='16' /></td></tr>";
echo "<tr><td colspan='2' align='center'><input type='submit' name='directorPasswordSubmit' value='change' /></td></tr>";
echo "/form";
echo "</table>";
)
//////////////////////////////////////////
function examinee_Manage(){
foreach($GLOBALS as $key=>$value){
if (ereg("[a-z]", $key[0], $array )){
global $$key;
}
}
connect_Db();
if($AnswerSheetToDelete != ""){
$query = "DELETE FROM answer WHERE student_number=' $AnswerSheetToDelete' AND batch_id=' $batch_id' ";
$result = mysql_query($query);
echo "message: the ANSWER SHEET of student [ $AnswerSheetToDelete ] in the current batch_id [ $batch_id ] was successfully deleted.<br><br>";
$AnswerSheetToDelete = "";
}
$additionQueryMessage = "added";
if($addAnswerSheetSubmit == "apply changes"){
$query = "DELETE FROM answer WHERE student_number=' $studNumA-$studNumB' AND batch_id=' $batch_id' ";
$result = mysql_query($query);
$addAnswerSheetSubmit = "add";
$additionQueryMessage = "edited";
}
if($addAnswerSheetSubmit == "add"){
//get the answerString...
$examitemOrderArrayE = explode(" ", $examitemOrder);
foreach($examitemOrderArrayE AS $examitemOrderArrayElement){
$elementName = "ans_". $examitemOrderArrayElement;
$answerStringE[] = $elementName;
}
//check if student is real...
$query = "SELECT s.student_number, a.student_number FROM student AS s LEFT JOIN answer AS a ON (s.student_number=a.student_number AND
a.batch_id=' $batch_id' ) WHERE s.student_number=' $studNumA-$studNumB' ";
$result = mysql_query($query);
if(mysql_num_rows($result) == 0){
echo "error: the student [ $studNumA-$studNumB ] does not exist.<br><br>";
}
else{
$myrow = mysql_fetch_row($result);
if($myrow[1] != ""){
echo "error: the ANSWER SHEET of student [ $studNumA-$studNumB ] already exist in the current batch_id [ $batch_id ].<br><br>";
}
else{
"");
$query = "INSERT INTO answer VALUES (' $batch_id', ' $studNumA-$studNumB', '".implode("-", $answerStringE)."', ' $examitemOrder', ''";
$result = mysql_query($query);
echo "message: the answer sheet of student [ $studNumA-$studNumB ] was successfully $additionQueryMessage.<br><br>";
//unset the ans_... vars
foreach($GLOBALS as $key=>$value){
if (ereg("ans_(.*)", $key, $array )){
unset($$key);
}
}
unset($examitemOrder);
unset($studNumA);
unset($studNumB);
}
}
}
global $examitemOrderArray;
$questionTypeArray = array('true or false', 'multiple choice', 'matching type');
foreach($questionTypeArray AS $questionTypeArrayElement){
$queryA = "SELECT exam_item.question_id, question.answer FROM exam_item, question WHERE question.question_id=exam_item.question_id AND
question.question_type=' $questionTypeArrayElement' AND exam_item.exam_id=' $exam_id' ORDER BY question.question_id ASC ";
$resultA = mysql_query($queryA);
while($myrowA = mysql_fetch_row($resultA)){
$examitemOrderArray[] = $myrowA[0];
$examitemQuestionTypeArray[] = $questionTypeArrayElement;
$examAnswerArray[] = $myrowA[1];
if($questionTypeArrayElement == "matching type"){
$tempArray = explode(" ", $myrowA[1]);
$examitemLen += count($tempArray);
unset($tempArray);
}
else{
$examitemLen++;
}
}
}
if($AnswerSheetToEdit != ""){
$studNumArray = explode(" ", $AnswerSheetToEdit);
$studNumA = $studNumArray[0];
$studNumB = $studNumArray[1];
$query = "SELECT answerString, randomtem FROM answer WHERE student_number=' $AnswerSheetToEdit' AND batch_id=' $batch_id' ";
$result = mysql_query($query);
$myrow = mysql_fetch_row($result);
$answerStringArrayE = remove_Answer_Random_Order_Examinee_Manage($myrow[0], $myrow[1]);
for($i = 0; $i < count($examitemOrderArray); $i++){
$elementName = "ans_". $examitemOrderArray[$i];
$elementName = $answerStringArrayE[$i];
if($examitemQuestionTypeArray[$i] == "matching type"){
$tempArray = explode(" ", $answerStringArrayE[$i]);
for($j = 0; $j < count($tempArray); $j++){
$elementNameA = $elementName.".". ($j + 1);
$elementNameA = $tempArray[$j];
}
unset($tempArray);
}
}
}
if($examitemLen > 25){
echo "<div style='height: auto; width: 100%; overflow: scroll;'>";
echo "<table border='1'>";
echo "<tr><td colspan='". ($examitemLen + 2)." ' align='center'>EXAMINEE ANSWER SHEETS</td></tr>";
echo "<tr><td colspan='2' rowspan='2' align='center'>&nbsp;&nbsp;&nbsp;</td><td colspan=' $examitemLen' align='center'>QUESTION ID</td></tr>";
echo "<tr>";
for($i = 0; $i < count($examitemOrderArray); $i++){
if($examitemQuestionTypeArray[$i] == "matching type"){
$tempArray = explode(" ", $examAnswerArray[$i]);
for($j = 0; $j < count($tempArray); $j++){
echo "<td align='center' valign='middle'><img src='/toes/director/strToPic.php?textToPic=". $examitemOrderArray[$i].".". ($j + 1)." /></td>";
}
unset($tempArray);
}
else{
echo "<td align='center' valign='middle'><img src='/toes/director/strToPic.php?textToPic=$examitemOrderArray[$i]' /></td>";
}
}
echo "</tr>";
echo "<tr><td>&nbsp;&nbsp;& </td><td align='center'>answer key</td>";

```

```

for($i = 0; $i < count($examAnswerArray); $i++){
    if($examItemQuestionTypeArray[$i] == "matching type"){
        $tempArray = explode(" ", $examAnswerArray[$i]);
        foreach($tempArray AS $tempArrayElem){
            echo "<td align='center'>$tempArrayElem</td>";
        }
        unset($tempArray);
    }
    else if($examItemQuestionTypeArray[$i] == "true or false"){
        echo "<td align='center'>".strtoupper(substr($examAnswerArray[$i], 0, 1))."</td>";
    }
    else{
        echo "<td align='center'>$examAnswerArray[$i]</td>";
    }
}
echo "</tr>";
$query = "SELECT student_number, answerString, randomItem, lastViewedItem FROM answer WHERE batch_id=' $batch_id' ";
$result = mysql_query($query);
while($myrow = mysql_fetch_row($result)){
    $examItemArray[] = $myrow[0];
    $examItemAnswerStringArray[] = $myrow[1];
    $examItemRandomItem[] = $myrow[2];
    $examItemLastViewedItem[] = $myrow[3];
}
echo "<form name='editDeleteAnswerSheetSubmit' method='POST' action='?action=saveNav&action=saveTab&action=saveTab'>";
echo "<input type='hidden' name='batch_id' value=' $batch_id' />";
echo "<input type='hidden' name='exam_id' value=' $exam_id' />";
echo "<input type='hidden' name='answerSheetToEdit' value=' ' />";
echo "<input type='hidden' name='answerSheetToDelete' value=' ' />";
for($i = 0; $i < count($examItemArray); $i++){
    echo "<tr>";
    echo "<td align='center'>";
    if(($examItemLastViewedItem[$i] == 0) || ($examItemLastViewedItem[$i] == "")){
        if($answerSheetToEdit == $examItemAnswerStringArray[$i]){
            echo "<font style='font-size: 75%;'>***EDITING***</font>";
        }
        else{
            echo "<a href='javascript: setEditDeleteAnswerSheet(\`$editDeleteAnswerSheetSubmit\`, \`$answerSheetToEdit\`, \`$examItemArray[$i]\`)' style='font-size: 75%; text-decoration: none; color: blue;'>EDIT</a>";
            echo "&nbsp;&nbsp;&nbsp;<a href='javascript: setEditDeleteAnswerSheet(\`$editDeleteAnswerSheetSubmit\`, \`$answerSheetToDelete\`, \`'\`, \`'\`, \`$examItemArray[$i]\`)' style='font-size: 75%; text-decoration: none; color: blue;'>DELETE</a>";
        }
    }
    else{
        echo "<font style='font-size: 75%;'>EDIT DELETE</font>";
    }
}
echo "</td>";
echo "<td align='center'>$examItemArray[$i]</td>";
$examItemAnswerArray = removeAnswerRandomOrder($examItemAnswerStringArray[$i], $examItemRandomItem[$i]);
for($j = 0; $j < count($examItemAnswerArray); $j++){
    if($examItemQuestionTypeArray[$j] == "matching type"){
        $tempArray = explode(" ", $examItemAnswerArray[$j]);
        foreach($tempArray AS $tempArrayElem){
            echo "<td align='center'>$tempArrayElem</td>";
        }
        unset($tempArray);
    }
    else if($examItemQuestionTypeArray[$j] == "true or false"){
        echo "<td align='center'>".strtoupper(substr($examItemAnswerArray[$j], 0, 1))."</td>";
    }
    else{
        echo "<td align='center'>$examItemAnswerArray[$j]</td>";
    }
}
echo "</tr>";
unset($examItemAnswerArray);
}
echo "</form>";
echo "</table>";
if($examItemLen > 25){
    echo "</div>";
}
echo "<br><table border='1'>";
echo "<form name='addAnswerSheetSubmit' method='POST' action='?action=saveNav&action=saveTab&action=saveTab' onsubmit='return addAnswerSheetJS(this)'>";
echo "<input type='hidden' name='examItemOrder' value=''.implode(" ", $examItemOrderArray).'\`' />";
echo "<input type='hidden' name='batch_id' value=' $batch_id' />";
echo "<input type='hidden' name='exam_id' value=' $exam_id' />";
if($answerSheetToEdit == ""){
    echo "<tr><td colspan='2' align='center'>EDIT ANSWER SHEET</td></tr>";
    $readOnlyStr = "readOnly='readOnly'";
}
else{
    echo "<tr><td colspan='2' align='center'>ADD ANSWER SHEET</td></tr>";
    $readOnlyStr = "";
}
echo "<tr><td>Student Number</td><td>";
echo "<input type='text' maxLength='4' size='4' name='studNumA' value=' $studNumA' $readOnlyStr - '";
echo "<input type='text' maxLength='5' size='5' name='studNumB' value=' $studNumB' $readOnlyStr>";
echo "</td></tr>";
echo "<tr><td align='center'>QUESTION ID</td><td align='center'>CHOICES </td></tr>";
$tfChoices = array(true, false, ' ');
$mcChoices = array('a', 'b', 'c', 'd', ' ');
for($i = 0; $i < count($examItemOrderArray); $i++){
    $elementName = "ans_$examItemOrderArray[$i]";
    echo "<tr><td align='center' value='middle'>$examItemOrderArray[$i]</td><td>";
    switch($examItemQuestionTypeArray[$i]){
        case "true or false":
            foreach($tfChoices AS $tfChoiceElem){
                if($elementName == $tfChoiceElem){
                    echo "<input type='radio' name=' $elementName' value=' $tfChoiceElem' checked='checked' />";
                }
                else{
                    echo "<input type='radio' name=' $elementName' value=' $tfChoiceElem' />";
                }
            }
            if($tfChoiceElem == ""){
                echo "BLANK";
            }
            else{
                echo "$tfChoiceElem";
            }
            break;
        case "multiple choice":
            foreach($mcChoices AS $mcChoiceElem){
                if($elementName == $mcChoiceElem){
                    echo "<input type='radio' name=' $elementName' value=' $mcChoiceElem' checked='checked' />";
                }
                else{
                    echo "<input type='radio' name=' $elementName' value=' $mcChoiceElem' />";
                }
            }
            if($mcChoiceElem == ""){
                echo "BLANK";
            }
            else{
                echo "$mcChoiceElem";
            }
        }
    }
}

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switch(animatingToesColorsIndex){
  case 1:
    color = "blue";
    secs = 1000;
    break;
  case 2:
    color = "red";
    secs = 1000;
    break;
  case 3:
    color = "green";
    secs = 1000;
    break;
  case 4:
    color = "yellow";
    secs = 1000;
    break;
  case 5:
    color = "blue";
    secs = 500;
    break;
  case 6:
    color = "red";
    secs = 500;
    break;
  case 7:
    color = "green";
    secs = 500;
    break;
  case 8:
    color = "yellow";
    secs = 500;
    break;
  default:
    color = "white";
    secs = 1;
    break;
}
document.getElementById(animatingToesColorElement).style.color = color;
animatingToesColorInterval = setInterval(animatingToesColors, secs);
}
function loginFormCheck(currentForm){
  if(currentForm.username.value == ""){
    alert("error: please include your username");
    return false;
  }
  if(currentForm.password.value == ""){
    alert("error: please include your password");
    return false;
  }
  return true;
}
function highlightSystemMessages(){
  document.body.innerHTML = highlightMessage(document.body.innerHTML, 'error:', '<br><br>', '#000000', '#FF8080');
  document.body.innerHTML = highlightMessage(document.body.innerHTML, 'message:', '<br><br>', '#000000', '#80FF80');
  document.body.innerHTML = highlightMessage(document.body.innerHTML, 'warning:', '<br><br>', '#000000', '#FFFF80');
}
function highlightMessage(bodyText, searchTermA, searchTermB, textColor, bgColor){
  var highlightStartTag = "<font style='color:" + textColor + "; background-color:" + bgColor + "; line-height: 1.1; ' >";
  var highlightEndTag = "</font>";

  var newText = "";
  var i = -1;
  var j = -1;
  var lcBodyText = bodyText.toLowerCase();
  while(bodyText.length > 0){
    i = bodyText.indexOf(searchTermA, i+1);
    if(i < 0){
      newText += bodyText;
      bodyText = "";
    }
    else{
      // skip anything inside an HTML tag
      if(bodyText.lastIndexOf(">", i) >= bodyText.lastIndexOf("<", i)){
        // skip anything inside a <script> block
        if(lcBodyText.lastIndexOf("/script", i) >= lcBodyText.lastIndexOf("<script", i)){
          //search for the closing term of the system message...
          j = lcBodyText.indexOf(searchTermB, i + searchTermA.length);
          if(j > 0){
            newText += bodyText.substring(0, i) + highlightStartTag + bodyText.substr(i, j - i) + highlightEndTag + bodyText.substr(j,
searchTermB.length);
            bodyText = bodyText.substr(j + searchTermB.length);
            j = -1;
          }
          else{
            newText += bodyText.substring(0, i) + bodyText.substr(i, searchTermA.length);
            bodyText = bodyText.substr(i + searchTermA.length);
          }
          lcBodyText = bodyText.toLowerCase();
          i = -1;
        }
      }
    }
  }
  return newText;
}
function windowOnload(activeNav, activeTab){
  highlightSystemMessages();
  if(top != self){
    top.location = location;
  }
  activeTabGlobal = activeTab;
  switch(activeNav){
    case 'Exam Statistics':
      if(activeTab == 'Search Exam'){
        for(i = 0; i < document.examQuery.examSubject.length; i++){
          if(document.examQuery.examSubject[i].value == document.examQuery.examSubjectHidden.value){
            document.examQuery.examSubject[i].selected = true;
          }
        }
        for(i = 0; i < document.examQuery.examDescriptionMatching.length; i++){
          if(document.examQuery.examDescriptionMatching[i].value == document.examQuery.examDescriptionMatchingHidden.value){
            document.examQuery.examDescriptionMatching[i].selected = true;
          }
        }
        if(document.examQuery.examDescriptionMatchingHidden.value == "any"){
          document.examQuery.examDescriptionString.style.display = 'none';
        }
        else{
          document.examQuery.examDescriptionString.value = document.examQuery.examDescriptionStringHidden.value;
        }
        for(i = 0; i < document.examQuery.examAuthor.length; i++){
          if(document.examQuery.examAuthor[i].value == document.examQuery.examAuthorHidden.value){
            document.examQuery.examAuthor[i].selected = true;
          }
        }
        for(i = 0; i < document.examQuery.examAllottedTime.length; i++){
          if(document.examQuery.examAllottedTime[i].value == document.examQuery.examAllottedTimeHidden.value){
            document.examQuery.examAllottedTime[i].selected = true;
          }
        }
      }
  }
}

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    }
    for(i = 0; i < document.examQuery.examDepartmentalNumber.length; i++){
        if(document.examQuery.examDepartmentalNumber[i].value == document.examQuery.examDepartmentalNumberHidden.value){
            document.examQuery.examDepartmentalNumber[i].selected = true;
        }
    }
    for(i = 0; i < document.examQuery.examDateWhch.length; i++){
        if(document.examQuery.examDateWhch[i].value == document.examQuery.examDateWhchHidden.value){
            document.examQuery.examDateWhch[i].checked = true;
        }
    }
    for(i = 0; i < document.examQuery.examDateYear.length; i++){
        if(document.examQuery.examDateYear[i].value == document.examQuery.examDateYearHidden.value){
            document.examQuery.examDateYear[i].selected = true;
        }
    }
    for(i = 0; i < document.examQuery.examDateMonth.length; i++){
        if(document.examQuery.examDateMonth[i].value == document.examQuery.examDateMonthHidden.value){
            document.examQuery.examDateMonth[i].selected = true;
        }
    }
    for(i = 0; i < document.examQuery.examSortedBy.length; i++){
        if(document.examQuery.examSortedBy[i].value == document.examQuery.examSortedByHidden.value){
            document.examQuery.examSortedBy[i].selected = true;
        }
    }
    for(i = 0; i < document.examQuery.examDirection.length; i++){
        if(document.examQuery.examDirection[i].value == document.examQuery.examDirectionHidden.value){
            document.examQuery.examDirection[i].checked = true;
        }
    }
    for(i = 0; i < document.examQuery.examNumResults.length; i++){
        if(document.examQuery.examNumResults[i].value == document.examQuery.examNumResultsHidden.value){
            document.examQuery.examNumResults[i].selected = true;
        }
    }
}
if((activeTab == 'Exam Analysis') || (activeTab == 'Exam Batch Analysis')){
    if(document.examValues != null){
        computeStatistics("compute");
    }
}
break;
case 'Item Statistics':
    if(activeTab == 'Search Item'){
        for(i = 0; i < document.questionQuery.qSubject.length; i++){
            if(document.questionQuery.qSubject[i].value == document.questionQuery.hSubject.value){
                document.questionQuery.qSubject[i].selected = true;
            }
        }
        for(i = 0; i < document.questionQuery.qTopic.length; i++){
            if(document.questionQuery.qTopic[i].value == document.questionQuery.hTopic.value){
                document.questionQuery.qTopic[i].selected = true;
            }
        }
        for(i = 0; i < document.questionQuery.qQuestionType.length; i++){
            if(document.questionQuery.qQuestionType[i].value == document.questionQuery.hQuestionType.value){
                document.questionQuery.qQuestionType[i].selected = true;
            }
        }
        for(i = 0; i < document.questionQuery.qDifficulty.length; i++){
            if(document.questionQuery.qDifficulty[i].value == document.questionQuery.hDifficulty.value){
                document.questionQuery.qDifficulty[i].selected = true;
            }
        }
        for(i = 0; i < document.questionQuery.qSortedBy.length; i++){
            if(document.questionQuery.qSortedBy[i].value == document.questionQuery.hSortedBy.value){
                document.questionQuery.qSortedBy[i].selected = true;
            }
        }
        for(i = 0; i < document.questionQuery.qDirection.length; i++){
            if(document.questionQuery.qDirection[i].value == document.questionQuery.hDirection.value){
                document.questionQuery.qDirection[i].checked = true;
            }
        }
        for(i = 0; i < document.questionQuery.qNumResults.length; i++){
            if(document.questionQuery.qNumResults[i].value == document.questionQuery.hNumResults.value){
                document.questionQuery.qNumResults[i].selected = true;
            }
        }
    }
}
if(activeTab == 'Item Analysis'){
    if(document.examValues != null){
        computeStatistics("compute");
    }
}
break;
case 'User Accounts':
    if((activeTab == 'Tutor Account') && (document.searchTutorAccount)){
        if(!document.searchTutorAccount.peerInSearch.checked){
            document.searchTutorAccount.degreeProgram.style.display = 'none';
        }
        if(!document.searchTutorAccount.facultyInSearch.checked){
            document.searchTutorAccount.department.style.display = 'none';
        }
        var thisSpanTutorSearchSchedule = document.getElementById("spanTutorSearchSchedule");
        if(document.searchTutorAccount.scheduleCriteria.value == "any"){
            thisSpanTutorSearchSchedule.style.display = 'none';
        }
        else{
            thisSpanTutorSearchSchedule.style.display = '';
        }
    }
    if((activeTab == 'Tutor Account') && (document.newTutorAccountDetails)){
        if(!((document.newTutorAccountDetails.tutorType[0].checked) || (document.newTutorAccountDetails.tutorType[1].checked))){
            document.newTutorAccountDetails.tutorType[0].checked = true;
        }
    }
    displayCoursesOrDepartments(document.newTutorAccountDetails);
}
break;
default:
    break;
}
}
}
function unhide_examDescriptionMatchingString(){
    //alert("Please enter the word(s) filter");
    if(document.examQuery.examDescriptionMatching.value == "any"){
        document.examQuery.examDescriptionString.style.display = 'none';
    }
    else{
        document.examQuery.examDescriptionString.style.display = '';
        document.examQuery.examDescriptionString.focus();
    }
}
function hide_examDescriptionString(){
    document.examQuery.examDescriptionString.style.display = 'none';
}
function examDateResetYear(currentForm){

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    currentForm.submit();
}
function idOfElementToAnalyze(id, activeTab){
    document.passidToAnalyzeSForm.idToAnalyze.value = id;
    document.passidToAnalyzeSForm.activeTab.value = activeTab;
    document.passidToAnalyzeSForm.submit();
}
function toggleAnalysisTab(tabId, tabCount){
    for (var i=0; i < tabCount; i++) {
        if (i == tabId) {
            document.getElementById("analysis_tab_"+i).parentNode.className = 'tabselected';
            document.getElementById("analysis_"+i).style.display = "inline";
        }
        else{
            document.getElementById("analysis_tab_"+i).parentNode.className = null;
            document.getElementById("analysis_"+i).style.display = "none";
        }
    }
}
function show_Hide(spanId){
    var thisSpan = document.getElementById(spanId);
    var thisButton = document.getElementById(spanId + "_b");
    switch(thisButton.value){
        case 'hide student list':
            thisSpan.style.display = 'none';
            thisButton.value='show student list';
            break;
        case 'show student list':
            thisSpan.style.display = '';
            thisButton.value='hide student list';
            break;
        default:
            break;
    }
}
function cursorForButtonToLink(currentElement){
    currentElement.style.cursor = "hand";
}
function checkUncheckAll(currentForm){
    if(currentForm.checkUncheckButton.value == "check all"){
        currentForm.checkUncheckButton.value = "uncheck all";
        for(var i = 0; i < currentForm.length; i++){
            if( currentForm.elements[i].type == "checkbox"){
                currentForm.elements[i].checked = true;
            }
        }
    }
    else{
        currentForm.checkUncheckButton.value = "check all";
        for(var i = 0; i < currentForm.length; i++){
            if( currentForm.elements[i].type == "checkbox"){
                currentForm.elements[i].checked = false;
            }
        }
    }
}
function hideUnhideQuestionTypeContent(thisButton, divId){
    var thisDiv = document.getElementById(divId);
    if(thisButton.value == "hide"){
        thisButton.value = "unhide";
        thisDiv.style.display = "none";
    }
    else{
        thisButton.value = "hide";
        thisDiv.style.display = "";
    }
}
function examineRecord(inclusiOnBit, answerStringArray, checkBitArray, score, uml, batchExamineForm, studentNumber){
    var examItemQuestionTypeArray = document.examValues.examItemQuestionType.value.split(",");
    var examItemWeightArray = document.examValues.examItemWeight.value.split("-");
    //splice items that are not included...
    var removedIndexCount = 0;
    for(var i = 0; i < inclusiOnBit.length; i++){
        if(examItemQuestionTypeArray[i] != "matching type"){
            if(inclusiOnBit[i] == 0){
                answerStringArray.splice(i - removedIndexCount, 1);
                checkBitArray.splice(i - removedIndexCount, 1);
                examItemWeightArray.splice(i - removedIndexCount, 1);
                removedIndexCount++;
            }
        }
        else{
            var tempArray = inclusiOnBit[i].split(",");
            var tempArrayA = checkBitArray[i - removedIndexCount].split(",");
            var tempArrayB = answerStringArray[i - removedIndexCount].split(",");
            var tempArrayC = examItemWeightArray[i - removedIndexCount].split(",");
            var inclusiOnBool = new Boolean(0);
            for(var j = 0; j < tempArray.length; j++){
                if(tempArray[j] == "1"){
                    inclusiOnBool = Boolean(1);
                }
            }
            else{
                tempArrayA[j] = "";
                tempArrayB[j] = "";
                tempArrayC[j] = "";
            }
        }
        if(inclusiOnBool){
            checkBitArray.splice(i - removedIndexCount, 1);
            answerStringArray.splice(i - removedIndexCount, 1);
            examItemWeightArray.splice(i - removedIndexCount, 1);
            removedIndexCount++;
        }
        else{
            checkBitArray[i - removedIndexCount] = tempArrayA.join(",");
            answerStringArray[i - removedIndexCount] = tempArrayB.join(",");
            examItemWeightArray[i - removedIndexCount] = tempArrayC.join(",");
        }
    }
    //count the score
    var scoreCount = 0;
    var weightedScoreCount = 0;
    for(var i = 0; i < examItemQuestionTypeArray.length; i++){
        if(examItemQuestionTypeArray[i] != "matching type"){
            if(checkBitArray[i - removedIndexCount] == 1){
                scoreCount++;
                weightedScoreCount += parseFloat(examItemWeightArray[i - removedIndexCount]);
            }
        }
        else{
            var tempArrayA = checkBitArray[i - removedIndexCount].split(",");
            var tempArrayB = inclusiOnBit[i].split(",");
            var tempArrayC = examItemWeightArray[i - removedIndexCount].split(",");
            for(var j = 0; j < tempArrayA.length; j++){
                if((tempArrayA[j] == 1)&&(tempArrayB[j] == "1")){
                    scoreCount++;
                    weightedScoreCount += parseFloat(tempArrayC[j]);
                }
            }
        }
    }
}

```

```

    }
  }
}
this.answerStringArray = answerStringArray;
this.checkBitArray = checkBitArray;
this.score = scoreCount;
this.uml = uml;
this.batchExamineeForm = batchExamineeForm;
this.studentNumber = studentNumber;
this.weightedScoreCount = weightedScoreCount;
}
function computeStatistics(computation){
  if(computation == "recompute"){
    //reset the values of non static textboxes...
    for(var i = 0; i < document.forms.length; i++){
      if(document.forms[i].name.indexOf("examItem_") != -1){
        for(var j = 0; j < document.forms[i].elements.length; j++){
          if((document.forms[i].elements[j].type == "text") && (document.forms[i].elements[j].name != "static")){
            document.forms[i].elements[j].value = 0;
          }
        }
      }
      if(document.forms[i].name.indexOf("e_") != -1){
        for(var j = 0; j < document.forms[i].elements.length; j++){
          if((document.forms[i].elements[j].name.indexOf("score_") != -1) || (document.forms[i].elements[j].name.indexOf("z_") != -1) || (document.forms[i].elements[j].name.indexOf("t_") != -1)){
            document.forms[i].elements[j].value = 0;
          }
        }
      }
    }
  }
}
var examItemOrderArray = document.examValues.examItemOrder.value.split(",");
var examItemQuestionTypeArray = document.examValues.examItemQuestionType.value.split(",");
var answerKey = document.examValues.examAnswer.value.split("-");
var includeOnBit = new Array();
var totalNumExamItem = 0;
var totalNumExamItemOmni = 0;
for(var i = 0; i < examItemOrderArray.length; i++){
  if(examItemQuestionTypeArray[i] != "matching type"){
    totalNumExamItem++;
    eval("var currentCheckbox = document.examItem_" + examItemOrderArray[i] + ".include;");
    includeOnBit[includeOnBit.length] = 1;
    if(!currentCheckbox.checked){
      includeOnBit[includeOnBit.length - 1] = 0;
      totalNumExamItemOmni++;
      examItemOrderArray.splice(i, 1);
      examItemQuestionTypeArray.splice(i, 1);
      answerKey.splice(i, 1);
      i--;
    }
  }
}
else{
  var tempArray = answerKey[i].split(",");
  var tempArrayA = new Array(tempArray.length);
  var tempArrayB = new Array(tempArray.length);
  for(var j = 0; j < tempArray.length; j++){
    totalNumExamItem++;
    tempArrayA[j] = 1;
    tempArrayB[j] = tempArray[j];
    eval("var currentCheckbox = document.examItem_" + examItemOrderArray[i] + ".include_" + j + ";");
    if(!currentCheckbox.checked){
      totalNumExamItemOmni++;
      tempArrayA[j] = 0;
      tempArrayB[j] = "";
    }
  }
  var includeOnBool = new Boolean(0);
  for(var j = 0; j < tempArrayB.length; j++){
    if(tempArrayB[j] != ""){
      includeOnBool = Boolean(1);
      break;
    }
  }
  if(includeOnBool){
    answerKey[i] = tempArrayB.join(",");
  }
  else{
    examItemOrderArray.splice(i, 1);
    examItemQuestionTypeArray.splice(i, 1);
    answerKey.splice(i, 1);
    i--;
  }
}
includeOnBit[includeOnBit.length] = tempArrayA.join(",");
}
var examinees = new Array();
var totalNumExaminees = 0;
for(var i = 0; i < document.forms.length; i++){
  if(document.forms[i].name.indexOf("e_") != -1){
    for(var j = 0; j < document.forms[i].length; j++){
      if(document.forms[i].elements[j].type == "checkbox"){
        totalNumExaminees++;
        if(document.forms[i].elements[j].checked){
          examinees[examinees.length] = new examineeRecord(includeOnBit, document.forms[i].elements[j].value.split("-"),
getCheckBit(document.forms[i].elements[j].value), 0, "m", document.forms[i].name, document.forms[i].elements[j].name);
        }
      }
    }
  }
}
//populate the 'Exam Item Statistics' tab
examinees.sort(compare);
var tempArray = new Array(examinees.length);
tempArray = examinees;
examinees = null;
examinees = new Array(tempArray.length);
for(var i = examinees.length - 1; i >= 0; i--){
  examinees[i] = tempArray.pop();
}
var upperLowerN = Math.ceil(examinees.length * .27);
//mark the upper
for(var i = 0; i < upperLowerN; i++){
  examinees[i].uml = "u";
}
//mark the lower
for(var i = examinees.length - 1; i > examinees.length - upperLowerN - 1; i--){
  examinees[i].uml = "l";
}
//this alert displays all the examinee attributes...
var alertStr = "";
for(var i = 0; i < examinees.length; i++){
  alertStr += "[ " + examinees[i].answerStringArray.join("-") + " ] [ " + examinees[i].checkBitArray.join("-") + " ] [ " + examinees[i].score + " ] [ "
+ examinees[i].uml + " ] \n";
}
alert(alertStr);

```

```

for(var i = 0; i < examItemOrderArray.length; i++){
  //locate the form for this exam item
  for(var j = 0; j < document.forms.length; j++){
    if(document.forms[j].name.indexOf("examItem_" + examItemOrderArray[i]) != -1){
      var currentExamItem = document.forms[j];
      break;
    }
  }
  switch(examItemQuestionTypeArray[i]){
    case 'true or false':
      var u_f = 0;
      var l_f = 0;
      //fill frequency textbox
      for(var j = 0; j < examItemNeeds.length; j++){
        eval("var currentTextBox = currentExamItem.t_f_" + examItemNeeds[j].answerStringArray[i] + ";");
        currentTextBox.value = parseInt(currentTextBox.value, 10) + 1;
        if(examItemNeeds[j].answerStringArray[i] == answerKey[i]){
          if(examItemNeeds[j].uml == "u"){
            u_f++;
          }
          if(examItemNeeds[j].uml == "l"){
            l_f++;
          }
        }
      }
      //fill percentage textbox
      var leftMostArray = new Array('t');
      for(var j = 0; j < leftMostArray.length; j++){
        var rowSum = 0;
        for(var k = 0; k < currentExamItem.length; k++){
          if(currentExamItem.elements[k].name.indexOf(leftMostArray[j] + "_f_") != -1){
            rowSum += parseInt(currentExamItem.elements[k].value, 10);
          }
        }
        if(rowSum != 0){
          for(var k = 0; k < currentExamItem.length; k++){
            if(currentExamItem.elements[k].name.indexOf(leftMostArray[j] + "_f_") != -1){
              var currentTextBoxNameP = currentExamItem.elements[k].name;
              currentTextBoxNameP = currentTextBoxNameP.replace("f_", "p");
              eval("currentExamItem." + currentTextBoxNameP + ".value = Math.round((parseInt(" + currentExamItem.elements[k].value + ", 10) /
" + rowSum + ") * 100);");
            }
          }
        }
      }
      //Discrimination Index'
      var numResult = new Number();
      numResult = (u_f - l_f) / upperLowerN;
      currentExamItem.DI.value = numResult.toFixed(2).toString();
      break;
    case 'multiple choice':
      //fill frequency textbox
      for(var j = 0; j < examItemNeeds.length; j++){
        eval("var currentTextBox = currentExamItem." + examItemNeeds[j].uml + "_f_" + examItemNeeds[j].answerStringArray[i] + ";");
        currentTextBox.value = parseInt(currentTextBox.value, 10) + 1;
        eval("currentTextBox = currentExamItem." + "t_f_" + examItemNeeds[j].answerStringArray[i] + ";");
        currentTextBox.value = parseInt(currentTextBox.value, 10) + 1;
      }
      //fill percentage textbox
      var leftMostArray = new Array('u', 'm', 'l', 't');
      for(var j = 0; j < leftMostArray.length; j++){
        var rowSum = 0;
        for(var k = 0; k < currentExamItem.length; k++){
          if(currentExamItem.elements[k].name.indexOf(leftMostArray[j] + "_f_") != -1){
            rowSum += parseInt(currentExamItem.elements[k].value, 10);
          }
        }
        if(rowSum != 0){
          for(var k = 0; k < currentExamItem.length; k++){
            if(currentExamItem.elements[k].name.indexOf(leftMostArray[j] + "_f_") != -1){
              var currentTextBoxNameP = currentExamItem.elements[k].name;
              currentTextBoxNameP = currentTextBoxNameP.replace("f_", "p");
              eval("currentExamItem." + currentTextBoxNameP + ".value = Math.round((parseInt(" + currentExamItem.elements[k].value + ", 10) /
" + rowSum + ") * 100);");
            }
          }
        }
      }
      //fill the 'item discrimination' column...
      for(var j = 0; j < currentExamItem.length; j++){
        if(currentExamItem.elements[j].name.indexOf("t_i_") != -1){
          var currentTextBoxNameL = currentExamItem.elements[j].name;
          eval("var uNum = new Number(currentExamItem." + currentTextBoxNameL.replace("t_i_", "u_f_") + ".value);");
          eval("var lNum = new Number(currentExamItem." + currentTextBoxNameL.replace("t_i_", "l_f_") + ".value);");
          var numResult = new Number();
          numResult = (uNum - lNum) / upperLowerN;
          currentExamItem.elements[j].value = numResult.toFixed(2).toString();
          //Discrimination Index'
          if(currentExamItem.elements[j].name == "t_j_" + answerKey[i]){
            currentExamItem.DI.value = currentExamItem.elements[j].value;
          }
        }
      }
      break;
    case 'matching type':
      //fill frequency textbox
      var matchingAnswerKeyArray = answerKey[i].split(",");
      var u_f_a = new Array();
      var l_f_a = new Array();
      for(var k = 0; k < matchingAnswerKeyArray.length; k++){
        u_f_a[k] = 0;
        l_f_a[k] = 0;
      }
      for(var j = 0; j < examItemNeeds.length; j++){
        var matchingAnswerArray = examItemNeeds[j].answerStringArray[i].split(",");
        for(var k = 0; k < matchingAnswerArray.length; k++){
          if(matchingAnswerKeyArray[k] == ""){
            continue;
          }
          eval("currentTextBox = currentExamItem." + "t_f_" + matchingAnswerArray[k] + "_" + k + ";");
          //alert(currentTextBox.name);
          currentTextBox.value = parseInt(currentTextBox.value, 10) + 1;
          if(matchingAnswerArray[k] == matchingAnswerKeyArray[k]){
            if(examItemNeeds[j].uml == "u"){
              u_f_a[k]++;
            }
            if(examItemNeeds[j].uml == "l"){
              l_f_a[k]++;
            }
          }
        }
      }
      //fill percentage textbox
      for(var l = 0; l < matchingAnswerKeyArray.length; l++){
        if(matchingAnswerKeyArray[l] == ""){
          continue;
        }
        var leftMostArray = new Array('t');
        for(var j = 0; j < leftMostArray.length; j++){

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var rowSum = 0;
for(var k = 0; k < currentExamItem.length; k++){
    eval("var re = /" + leftMostArray[j] + "_f_[0-9]*_" + l + "/" + "g;");
    if(currentExamItem.elements[k].name.search(re) != -1){
        rowSum += parseInt(currentExamItem.elements[k].value, 10);
    }
}
if(rowSum != 0){
    for(var k = 0; k < currentExamItem.length; k++){
        eval("var re = /" + leftMostArray[j] + "_f_[0-9]*_" + l + "/" + "g;");
        if(currentExamItem.elements[k].name.search(re) != -1){
            var currentTextBoxNameP = currentExamItem.elements[k].name;
            currentTextBoxNameP = currentTextBoxNameP.replace("_f_", "_p_");
            eval("currentExamItem." + currentTextBoxNameP + ".value = Math.round((parseInt(" + currentExamItem.elements[k].value + ", 10)
/ " + rowSum + "
) * 100);");
        }
    }
}
// Discrimination Index
var numResult = new Number();
numResult = (u_f_a[l] - l_f_a[l]) / upperLowerN;
eval("currentExamItem.DI_" + l + ".value = numResult.toFixed(2);");
}
break;
default:
break;
}
}
//halt if 'Item Analysis' tab is ON
//if(activeTab_global == "Item Analysis"){
//    return false;
//}
//initialize the statistical variables
var tempSum = new Number();
var statisticsNameArray = document.examinationsForm.statisticsName.value.split(",");
for(var i = 0; i < statisticsNameArray.length; i++){
    eval("var " + statisticsNameArray[i] + " = new Number();");
}
//proceed with the computation...
n1ncltems = totalNumExamItem - totalNumExamItemOmit;
nOmitItems = totalNumExamItemOmit;
nlncExamines = examines.length;
nOmitExamines = totalNumExamines - nlncExamines;
miinum = examines[0].score;
maxinum = examines[examines.length - 1].score;
//compute mean
tempSum = 0;
for(var i = 0; i < examines.length; i++){
    tempSum += examines[i].score;
}
mean = tempSum / nlncExamines;
//compute variance and std dev
tempSum = 0;
for(var i = 0; i < examines.length; i++){
    tempSum += Math.pow(examines[i].score - mean, 2);
}
variance = tempSum / (nlncExamines - 1);
standardDeviation = Math.sqrt(variance);
//compute skewness
tempSum = 0;
for(var i = 0; i < examines.length; i++){
    tempSum += Math.pow(examines[i].score - mean, 3);
}
skew = (tempSum / (nlncExamines - 1)) / (Math.pow(standardDeviation, 3));
//compute kurtosis
tempSum = 0;
for(var i = 0; i < examines.length; i++){
    tempSum += Math.pow(examines[i].score - mean, 4);
}
kurtosis = (tempSum / (nlncExamines - 1)) / (Math.pow(standardDeviation, 4));
//compute median
if(nlncExamines % 2 == 1){
    median = examines[Math.floor(nlncExamines / 2)].score;
}
else{
    median = (examines[nlncExamines / 2].score + examines[(nlncExamines / 2) - 1].score) / 2;
}
//compute KR20
var expandedCheckBit = new Array();
for(var i = 0; i < examines.length; i++){
    expandedCheckBit[expandedCheckBit.length] = (examines[i].checkBitArray.join(",")).split(",");
}
tempSum = 0;
var numCorrect = 0;
for(var i = 0; i < expandedCheckBit[0].length; i++){
    numCorrect = 0;
    for(var j = 0; j < expandedCheckBit.length; j++){
        if(expandedCheckBit[j][i] == "1"){
            numCorrect++;
        }
    }
    tempSum += ((numCorrect / nlncExamines) * ((nlncExamines - numCorrect) / nlncExamines));
}
KR20 = (nlncExamines / (nlncExamines - 1)) * (1 - (tempSum / variance));
//compute KR21
KR21 = (n1ncltems / (n1ncltems - 1)) * (1 - ((mean * (n1ncltems - mean)) / (n1ncltems * variance)));
//Spearman Brown Prophecy
tempSum = 0;
if(expandedCheckBit[0].length % 2 == 0){
    var balancindex = expandedCheckBit[0].length;
}
else{
    var balancindex = expandedCheckBit[0].length - 1;
}
var oddScore = 0;
var evenScore = 0;
var pX = 0;
var pY = 0;
var pXY = 0;
var pX2 = 0;
var pY2 = 0;
for(var i = 0; i < expandedCheckBit.length; i++){
    oddScore = 0;
    evenScore = 0;
    for(var j = 0; j <= balancindex; j++){
        if(j % 2 == 0){
            if(expandedCheckBit[i][j] == "1"){
                oddScore++;
            }
        }
        else{
            if(expandedCheckBit[i][j] == "1"){
                evenScore++;
            }
        }
    }
    pX += oddScore;
    pY += evenScore;
}

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    pXY += (oddScore * evenScore);
    pX2 += Math.pow(oddScore, 2);
    pY2 += Math.pow(evenScore, 2);
  }
  tempSum = ((nIncExamines * pXY) - (pX * pY)) / Math.sqrt(((nIncExamines * pX2) - Math.pow(pX, 2)) * ((nIncExamines * pY2) - Math.pow(pY, 2)));
  SB = (2 * tempSum) / (1 + tempSum);
  //calculate 'Item Difficulty' and 'point biserial'
  for(var i = 0; i < examItemOrderArray.length; i++){
    //get the current form for the current item
    for(var j = 0; j < document.forms.length; j++){
      if(document.forms[j].name.indexOf("examItem_" + examItemOrderArray[i]) != -1){
        var currentExamItem = document.forms[j];
        break;
      }
    }
    //plug 'item difficulty'
    if(examItemQuestionTypeArray[i] != "matching type"){
      eval("currentExamItem.itemDifficulty.value = currentExamItem.t_p_" + answerKey[i] + ".value;");
      tempSum = 0;
      var correctStudentCount = 0;
      for(var l = 0; l < examNeeds.length; l++){
        if(examNeeds[l].checkBitArray[i] == "1"){
          tempSum += examNeeds[l].score;
          correctStudentCount++;
        }
      }
      var p = currentExamItem.itemDifficulty.value / 100;
      tempSum = tempSum / correctStudentCount;
      currentExamItem.PBC.value = (((tempSum - mean) / standardDeviation) * Math.sqrt(p / (1 - p))).toFixed(2);
    }
  }
  else{
    var tempArray = answerKey[i].split(",");
    for(var k = 0; k < tempArray.length; k++){
      if(tempArray[k] == ""){
        continue;
      }
      eval("currentExamItem.itemDifficulty_" + k + ".value = currentExamItem.t_p_" + tempArray[k] + "_" + k + ".value;");
      tempSum = 0;
      var correctStudentCount = 0;
      for(var l = 0; l < examNeeds.length; l++){
        var tempArrayCheckBit = examNeeds[l].checkBitArray[i].split(",");
        if(tempArrayCheckBit[k] == "1"){
          tempSum += examNeeds[l].score;
          correctStudentCount++;
        }
      }
      eval("var p = currentExamItem.itemDifficulty_" + k + ".value / 100;");
      tempSum = tempSum / correctStudentCount;
      eval("currentExamItem.PBC_" + k + ".value = (((tempSum - mean) / standardDeviation) * Math.sqrt(p / (1 - p))).toFixed(2);");
    }
  }
}
//plug the statistical values...
for(var i = 0; i < statisticsNameArray.length; i++){
  if(i < 4){
    eval("document.examStatisticsForm." + statisticsNameArray[i] + ".value = " + statisticsNameArray[i] + ".toFixed(0);");
  }
  else{
    eval("document.examStatisticsForm." + statisticsNameArray[i] + ".value = " + statisticsNameArray[i] + ".toFixed(2);");
  }
  var currentValue = eval("document.examStatisticsForm." + statisticsNameArray[i] + ".value;");
  var currentTextarea = eval("document.examStatisticsForm." + statisticsNameArray[i] + "_textarea;");
  switch(statisticsNameArray[i]){
    case 'KR20':
      if(currentValue > .70){
        currentTextarea.value = "acceptable reliability coefficient. We can use this test (with some degree of confidence) to evaluate student performance.";
      }
      else{
        currentTextarea.value = "the test exhibited low reliability, therefore we can't use it to evaluate student performance. Serious attention must be given to improving the quality of individual test items.";
      }
      break;
    case 'KR21':
      if(currentValue > .70){
        currentTextarea.value = "acceptable reliability coefficient. We can use this test (with some degree of confidence) to evaluate student performance.";
      }
      else{
        currentTextarea.value = "the test exhibited low reliability, therefore we can't use it to evaluate student performance. Serious attention must be given to improving the quality of individual test items.";
      }
      break;
    case 'SB':
      if(currentValue > .70){
        currentTextarea.value = "acceptable reliability coefficient. We can use this test (with some degree of confidence) to evaluate student performance.";
      }
      else{
        currentTextarea.value = "the test exhibited low reliability, therefore we can't use it to evaluate student performance. Serious attention must be given to improving the quality of individual test items.";
      }
      break;
    default:
      break;
  }
}
//plug the textArea values for the examItem_forms...
for(var i = 0; i < document.forms.length; i++){
  if(document.forms[i].name.indexOf("examItem_") != -1){
    for(var j = 0; j < document.forms[i].elements.length; j++){
      //item difficulty
      if((document.forms[i].elements[j].type == "text") && (document.forms[i].elements[j].name.indexOf("itemDifficulty") != -1)){
        var currentField = document.forms[i].elements[j];
        var currentTextarea = eval("document.forms[i]." + document.forms[i].elements[j].name.replace("itemDifficulty", "itemDifficulty_textarea"));
        if((currentField.value < 0) || (currentField.value > 100)){
          currentTextarea.value = "error: value is out of range";
        }
        else if(currentField.value > 90){
          currentTextarea.value = "the item is very easy. Please check the item for possible clues.";
        }
        else{
          if(currentField.value < 25){
            currentTextarea.value = "the item is very hard. Please check the item for possible ambiguity of confusion in the wording. It is also possible that this item was not covered in the instruction.";
          }
          else{
            currentTextarea.value = "the item has acceptable difficulty";
          }
        }
      }
    }
    //discription index
    if((document.forms[i].elements[j].type == "text") && (document.forms[i].elements[j].name.indexOf("DI") != -1)){
      var currentField = document.forms[i].elements[j];
      var currentTextarea = eval("document.forms[i]." + document.forms[i].elements[j].name.replace("DI", "DI_textarea"));
      if((currentField.value < -1) || (currentField.value > 1)){
        currentTextarea.value = "error: value is out of range";
      }
    }
  }
}

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var examItemOrderArrayMod = new Array();
var itemAnalysiValuesArray = new Array();
for(var i = 0; i < examItemOrderArray.length; i++){
    if(examItemQuestionTypeArray[i] == "matching type"){
        eval("var currItemDifficulty = document.examItem_" + examItemOrderArray[i] + ".itemDifficulty.value;");
        eval("var currDI = document.examItem_" + examItemOrderArray[i] + ".DI.value;");
        eval("var currPBC = document.examItem_" + examItemOrderArray[i] + ".PBC.value;");
        examItemOrderArrayMod[examItemOrderArrayMod.length] = examItemOrderArray[i];
        itemAnalysiValuesArray[i] = currItemDifficulty + "_" + currDI + "_" + currPBC;
    }
    else{
        var matchingArray = answerKey[i].split(",");
        var matchingArrayCount = 0;
        var currItemDifficulty = new Number();
        var currDI = new Number();
        var currPBC = new Number();
        currItemDifficulty = 0;
        currDI = 0;
        currPBC = 0;
        for(var j = 0; j < matchingArray.length; j++){
            if(matchingArray[j] == ""){
                continue;
            }
            currItemDifficulty += eval("parseFloat(document.examItem_" + examItemOrderArray[i] + ".itemDifficulty_" + j + ".value);");
            currDI += eval("parseFloat(document.examItem_" + examItemOrderArray[i] + ".DI_" + j + ".value);");
            currPBC += eval("parseFloat(document.examItem_" + examItemOrderArray[i] + ".PBC_" + j + ".value);");
            matchingArrayCount++;
        }
        currItemDifficulty = currItemDifficulty / matchingArrayCount;
        currDI = currDI / matchingArrayCount;
        currPBC = currPBC / matchingArrayCount;
        examItemOrderArrayMod[examItemOrderArrayMod.length] = examItemOrderArray[i];
        itemAnalysiValuesArray[i] = currItemDifficulty.toFixed(2) + "_" + currDI.toFixed(2) + "_" + currPBC.toFixed(2);
    }
    document.systemEventsUser.examStatisticsValues.value = examStatisticsValuesArray.join(",");
    document.systemEventsUser.examItemOrder.value = examItemOrderArrayMod.join(",");
    document.systemEventsUser.itemAnalysiValues.value = itemAnalysiValuesArray.join(",");
}
function getCheckBit(answerString){
    var answerKey = document.examValues.examAnswer.value.split("-");
    var examItemQuestionTypeArray = document.examValues.examItemQuestionType.value.split(",");
    var answerStringArray = answerString.split("-");
    var checkBit = new Array(answerKey.length);
    for(var i = 0; i < answerKey.length; i++){
        if(examItemQuestionTypeArray[i] == "matching type"){
            var tempArrayA = answerKey[i].split(",");
            var tempArrayB = answerStringArray[i].split(",");
            var tempArrayC = new Array(tempArrayA.length);
            for(var j = 0; j < tempArrayA.length; j++){
                if(tempArrayA[j] == tempArrayB[j]){
                    tempArrayC[j] = 1;
                }
            }
            else{
                tempArrayC[j] = 0;
            }
        }
        checkBit[i] = tempArrayC.join(",");
    }
    else{
        if(answerKey[i] == answerStringArray[i]){
            checkBit[i] = 1;
        }
        else{
            checkBit[i] = 0;
        }
    }
}
//return checkBit.join("-");
return checkBit;
}
function compare(a, b){
    return parseInt(a.score, 10) - parseInt(b.score, 10);
}
function includeExcludeExamItem(div, currentForm, questionId){
    if(currentForm.include.checked){
        document.getElementById("examItemStatisticsDiv_" + questionId).style.display = "";
        div.style.borderBottom = "#008000 solid 0px";
    }
    else{
        document.getElementById("examItemStatisticsDiv_" + questionId).style.display = "none";
        div.style.borderBottom = "#008000 solid 1px";
    }
}
function includeExcludeExamItemMT(checkbox, currentId){
    var currentGroup = document.all["examItemStatisticsGroup_" + currentId];
    if(checkbox.checked){
        //document.getElementsByTagName("examItemStatisticsGroup_" + currentId).style.display = "";
        for(var i = 0; i < currentGroup.length; i++){
            currentGroup[i].style.display = "";
        }
    }
    else{
        //document.getElementById("examItemStatisticsGroup_" + currentId).style.display = "none";
        for(var i = 0; i < currentGroup.length; i++){
            currentGroup[i].style.display = "none";
        }
    }
}
function subok(){
    var arr1 = new Array('a', 'b', 'c', 'd');
    arr1.splice(0, 1);
    alert(arr1);
}
function backToMainAfterStatisticsComputation(){
    opener.document.forms[opener.document.forms.length - 1].submit();
    close();
}
function openStatisticsPopup(divective){
    eval("var subWindow = window.open('/toes/director/statistics_Popup.php?divective=" + divective + "&examId=" + document.examValues.examId.value + "', 'subWindow', 'width=" + (screen.width * .30) + ", height=" + (screen.height * .30) + ", status');");
    document.systemEventsUser.divective.value = "examAnalysiUser";
    computeStatistics("recompute");
}
function statisticsPopup(divective){
    switch(divective){
        case 'examAnalysiUser':
            document.systemEventsUser.examStatisticsValues.value = opener.document.systemEventsUser.examStatisticsValues.value;
            document.systemEventsUser.examItemOrder.value = opener.document.systemEventsUser.examItemOrder.value;
            document.systemEventsUser.itemAnalysiValues.value = opener.document.systemEventsUser.itemAnalysiValues.value;
            break;
        case 'close':
            opener.document.systemEventsUser.divective.value = "";
            close();
            break;
    }
}

```

```

        default:
            break;
    }
}
function directorPasswordCheck(currentForm){
    if(currentForm.passwordNew.value.length < 8){
        alert("error: please use passwords of length 8 or more");
        currentForm.passwordNew.select();
        return false;
    }
    if(currentForm.passwordNewR.value.length < 8){
        alert("error: please use passwords of length 8 or more");
        currentForm.passwordNewR.select();
        return false;
    }
    return true;
}
function addAnswerSheetJs(currentForm){
    if((currentForm.studNumA.value == "") && (currentForm.studNumB.value == "")){
        alert("error: please include the student number");
        return false;
    }
    if((currentForm.studNumA.value == "") || (currentForm.studNumB.value == "")){
        alert("error: please complete the student number");
        return false;
    }
    var re = /\d\d\d\d\d/;
    if(currentForm.studNumA.value.search(re) == -1){
        alert("error: invalid student number");
        currentForm.studNumA.select();
        return false;
    }
    var re = /\d\d\d\d\d\d/;
    if(currentForm.studNumB.value.search(re) == -1){
        alert("error: invalid student number");
        currentForm.studNumB.select();
        return false;
    }
    return true;
}
function joinMatchingTypeSubAnswers(elementName, currentForm){
    eval("var answerElement = document." + currentForm.name + "." + elementName + ";");
    var answerElementArray = new Array();
    for(var i = 0; i < currentForm.elements.length; i++){
        if((currentForm.elements[i].name.indexOf(elementName) != -1) && (currentForm.elements[i].name != elementName)){
            answerElementArray[answerElementArray.length] = currentForm.elements[i].options[currentForm.elements[i].selectedIndex].value;
        }
    }
    answerElement.value = answerElementArray.join(",");
}
function setEditDeleteAnswerSheet(formName, formElementName, stud){
    eval("var currentElement = document." + formName + "." + formElementName + ";");
    currentElement.value = stud.replace(" ", "-");
    eval("document." + formName + ".submit();");
}
function setActiveTab(currentForm, val){
    currentForm.activeTab.value = val;
    currentForm.submit();
}
}

```

E. EXAM

questionnaire.js

```

/*****
self.onbeforeunload = onbeforeunloadHandler;
var intervalID = 0;
var studentModule = self.opener;
var onbeforeunloadFixed = 0;
function notifyStudentModule(){
    if(studentModule.closed){
        //alert("The STUDENT MODULE window was closed!");
        if(intervalID){
            clearInterval(intervalID);
        }
        document.toesExamForm.violation.value = "blocked";
        document.toesExamForm.offense.value = "TOES blocked you because the 'STUDENT MODULE' window was closed.";
        jumpToQuestion(document.toesExamForm.questionDisplayed.value);
    }
    else{
        if(studentModule || !studentModule.popupExam){
            studentModule.popupExam = self;
            if(studentModule.intervalID == 0){
                studentModule.runSetIntervalFromPopup();
            }
        }
    }
}
function loadExamWindowWithViolation(){
    studentModule.exitClearance = 1;
}
function closeWithClearance(){
    studentModule.exitClearance = 1;
    self.close();
}
function onbeforeunloadHandler(){
    onbeforeunloadFixed = 1;
}
/*****
var focusStatus = null;
var lostFocusCount = 0;
var timer = null;
var timerID = 0;
function startTimer(){
    timer = new Date();
    var remainngTimeArray = document.toesExamForm.remainngTime.value.split(":");
    timer.setHours(remainngTimeArray[0]);
    timer.setMinutes(remainngTimeArray[1]);
    timer.setSeconds(remainngTimeArray[2]);
    document.navigatonForm.remainngTime.value = timer.getHours() + " : " + timer.getMinutes() + " : " + timer.getSeconds();
    if(document.navigatonForm.remainngTime.value == "0 : 0 : 0"){
        //alert("TIME IS UP!");
        document.toesExamForm.violation.value = "time is up";
        jumpToQuestion(document.toesExamForm.questionDisplayed.value);
    }
    else{
        timerID = setInterval("updateTimer()", 1000);
    }
}
function updateTimer(){

```

```

if(timerID){
    clearInterval(timerID);
}
timer.setTime(timer.getTime() - 1000);
document.navigatiOnForm.remainingTime.value = timer.getHours() + " : " + timer.getMinutes() + " : " + timer.getSeconds();
if(document.navigatiOnForm.remainingTime.value == "0 : 0 : 0"){
    //alert("TIME IS UP!");
    document.toesExamItemForm.violation.value = "time is up";
    jumpToQuestion(document.toesExamItemForm.questionDisplayed.value);
}
else{
    timerID = setInterval("updateTimer()", 1000);
}
self.window.moveTo(0, 0);
}
function windowOnLoad(operationMode, navigatiOnBit){
    if(top != self){
        top.location = location;
    }
    if(document.toesExamItemForm.style.value != "printStyle"){
        self.window.resizeTo(screen.width, screen.height);
        self.window.moveTo(0, 0);
    }
    keyboard();
    rightClick();
    switch(operationMode){
        case 'prev question':
            navigatiOnDisplay("01020");
            document.getElementById('toesSection2').style.display = 'none';
            document.getElementById('toesSection3').style.display = 'none';
            switch(document.toesExamItemForm.toesExamItemQuestionType.value){
                case 'matching type':
                    for(var i = 0; i < document.toesExamItemForm.length; i++){
                        if(document.toesExamItemForm.elements[i].name == 'matchingTypeSelect[]'){
                            for(var j = 0; j < parseInt(document.toesExamItemForm.matchingTypeTagAttributeCount.value) + 1; j++){
                                if(j == 0){
                                    document.toesExamItemForm.elements[i].options[document.toesExamItemForm.elements[i].options.length] = new Option('--', '--');
                                }
                                else{
                                    document.toesExamItemForm.elements[i].options[document.toesExamItemForm.elements[i].options.length] = new Option(j, j);
                                }
                            }
                        }
                    }
                    break;
                default:
                    break;
            }
            break;
        case 'review exam':
            if(document.toesExamItemForm.style.value == "printStyle"){
                var bodyText = document.body.innerHTML;
                //alert(bodyText.substr(1000));
                var searchTerm = '<p class=normal>&nbsp;  </p>';
                var newText = "";
                var i = -1;
                var lCBodyText = bodyText.toLowerCase();
                while(bodyText.length > 0){
                    i = lCBodyText.indexOf(searchTerm, i+1);
                    if(i < 0){
                        newText += bodyText;
                        bodyText = "";
                    }
                    else{
                        //alert("1");
                        // skip anything inside an HTML tag
                        //if(bodyText.lastIndexOf(">", i) >= bodyText.lastIndexOf("<", i)){
                        // skip anything inside a <script> block
                        //if(lCBodyText.lastIndexOf("<script>", i) >= lCBodyText.lastIndexOf("<script", i)){
                            newText += bodyText.substr(0, i);
                            bodyText = bodyText.substr(i + searchTerm.length);
                            lCBodyText = bodyText.toLowerCase();
                            i = -1;
                        }
                    }
                }
                document.body.innerHTML = newText;
            }
            if(document.toesExamItemForm.style.value == "printStyle"){
                var myDiv = document.getElementById("toesSection2");
                myDiv.style.display = "none";
                var myDiv = document.getElementById("toesSection3");
                myDiv.style.display = "none";
                var myDiv = document.getElementById("toesQuestionAnswerElements");
                myDiv.style.display = "none";
            }
            else{
                navigatiOnDisplay(navigatiOnBit);
            }
            switch(document.toesExamItemForm.toesExamItemQuestionType.value){
                case 'matching type':
                    for(var i = 0; i < document.toesExamItemForm.length; i++){
                        if(document.toesExamItemForm.elements[i].name == 'matchingTypeSelect[]'){
                            for(var j = 0; j < parseInt(document.toesExamItemForm.matchingTypeTagAttributeCount.value) + 1; j++){
                                if(j == 0){
                                    document.toesExamItemForm.elements[i].options[document.toesExamItemForm.elements[i].options.length] = new Option('--', '--');
                                }
                                else{
                                    document.toesExamItemForm.elements[i].options[document.toesExamItemForm.elements[i].options.length] = new Option(j, j);
                                }
                            }
                        }
                    }
                    break;
                default:
                    break;
            }
            break;
        case 'take exam':
            //studentModule = self.opener;
            intervalID = setInterval(notifyStudentModule, 1);
            self.window.focus();
            navigatiOnDisplay(navigatiOnBit);
            switch(document.toesExamItemForm.toesExamItemQuestionType.value){
                case 'matching type':
                    for(var i = 0; i < document.toesExamItemForm.length; i++){
                        if(document.toesExamItemForm.elements[i].name == 'matchingTypeSelect[]'){
                            for(var j = 0; j < parseInt(document.toesExamItemForm.matchingTypeTagAttributeCount.value) + 1; j++){
                                if(j == 0){
                                    document.toesExamItemForm.elements[i].options[document.toesExamItemForm.elements[i].options.length] = new Option('--', '--');
                                }
                                else{
                                    document.toesExamItemForm.elements[i].options[document.toesExamItemForm.elements[i].options.length] = new Option(j, j);
                                }
                            }
                        }
                    }
                    break;
            }
            break;
    }
}

```

```

        document.toesExamItemForm.elements[i].options[document.toesExamItemForm.elements[i].options.length] = new Option(j, j);
    }
}
}
break
default:
break;
}
if(document.toesExamItemForm.currentUserAnswer.value != ""){
switch(document.toesExamItemForm.toesExamItemQuestionType.value){
case 'multiple choice':
//select the user's answer
for(var i = 0; i < document.toesExamItemForm.length; i++){
if((document.toesExamItemForm.elements[i].name == 'multipleChoiceRadio') && (document.toesExamItemForm.elements[i].value ==
document.toesExamItemForm.currentUserAnswer.value)){
document.toesExamItemForm.elements[i].checked = true;
}
}
break;
case 'true or false':
//select the user's answer
for(var i = 0; i < document.toesExamItemForm.length; i++){
if((document.toesExamItemForm.elements[i].name == 'trueOrFalseRadio') && (document.toesExamItemForm.elements[i].value ==
document.toesExamItemForm.currentUserAnswer.value)){
document.toesExamItemForm.elements[i].checked = true;
}
}
break;
case 'matching type':
//select the user's answer
var userAttributeMatching = document.toesExamItemForm.currentUserAnswer.value.split(",");
var dropdownMenuIndex = 0;
for(var i = 0; i < document.toesExamItemForm.length; i++){
if(document.toesExamItemForm.elements[i].name == 'matchingTypeSelect[i]'){
document.toesExamItemForm.elements[i].selectedIndex = userAttributeMatching[dropdownMenuIndex];
dropdownMenuIndex++;
}
}
break;
case 'problem solving':
break;
case 'essay':
break;
default:
break;
}
}
startTimer();
break;
default:
break;
}
}
function userWantsToExit(operatiomMode, exi tParam){
if(operatiomMode == "take exam"){
if(exi tParam == "fromUnloadedEvent"){
document.toesExamItemForm.exi tStatus.value = "initial";
exi tParam = "final";
}
if(document.toesExamItemForm.exi tStatus.value == "initial"){
if(exi tParam == "final"){
document.toesExamItemForm.exi tStatus.value = "final";
jumpToQuestion(document.toesExamItemForm.questionDDisplayed.value);
}
if(exi tParam == "cancel"){
//studentModule.exi tClearance = 1;
document.toesExamItemForm.exi tStatus.value = "";
jumpToQuestion(document.toesExamItemForm.questionDDisplayed.value);
}
}
else{
document.getElementById('first').focus();
document.getElementById('second').style.display = "none";
document.getElementById('third').style.display = "none";
document.getElementById('first').focus();
document.toesExamItemForm.exi tStatus.value = "initial";
var exi tConfir m = document.getElementById('exi tConfir m');
var exi tConfir mCss = exi tConfir m.style;
exi tConfir mCss.display = '';
}
}
else{
if(timerID){
clearTimeout(timerID);
}
window.close();
}
}
}
function nextTestQuestion(){
switch(document.toesExamItemForm.operatiomMode.value){
case 'preview question':
switch(document.toesExamItemForm.toesExamItemQuestionType.value){
case 'multiple choice':
navigati onDisplay("10021");
//pass selected choice to the textbox
for(var i = 0; i < document.toesExamItemForm.length; i++){
if((document.toesExamItemForm.elements[i].name == 'multipleChoiceRadio') && (document.toesExamItemForm.elements[i].checked)){
document.toesExamItemForm.toesQuestionUserAnswer.value = document.toesExamItemForm.elements[i].value;
}
}
//select the correct answer
for(var i = 0; i < document.toesExamItemForm.length; i++){
if((document.toesExamItemForm.elements[i].name == 'multipleChoiceRadio') && (document.toesExamItemForm.elements[i].value ==
document.toesExamItemForm.toesQuestionAnswer.value)){
document.toesExamItemForm.elements[i].checked = true;
}
}
//disable all form elements
for(var i = 0; i < document.toesExamItemForm.length; i++){
if(document.toesExamItemForm.elements[i].name == 'multipleChoiceRadio'){
document.toesExamItemForm.elements[i].disabled = true;
}
}
//correct incorrect
if(document.toesExamItemForm.toesQuestionAnswer.value == document.toesExamItemForm.toesQuestionUserAnswer.value){
document.getElementById('toesExamItemCorrectAnswer').style.display = '';
document.getElementById('toesExamItemIncorrectAnswer').style.display = 'none';
}
else{
document.getElementById('toesExamItemCorrectAnswer').style.display = 'none';
document.getElementById('toesExamItemIncorrectAnswer').style.display = '';
}
//display explanation
document.getElementById('toesSection2').style.display = '';
break;
case 'true or false':
navigati onDisplay("10021");
//pass selected choice to the textbox

```

```

for(var i = 0; i < document.toesExamItemForm.length; i++){
    if((document.toesExamItemForm.elements[i].name == 'trueOrFalseRadio') && (document.toesExamItemForm.elements[i].checked)){
        document.toesExamItemForm.toesQuestionUserAnswer.value = document.toesExamItemForm.elements[i].value;
    }
}
//select the correct answer
for(var i = 0; i < document.toesExamItemForm.length; i++){
    if((document.toesExamItemForm.elements[i].name == 'trueOrFalseRadio') && (document.toesExamItemForm.elements[i].value ==
document.toesExamItemForm.toesQuestionAnswer.value)){
        document.toesExamItemForm.elements[i].checked = true;
    }
}
//disable all form elements
for(var i = 0; i < document.toesExamItemForm.length; i++){
    if((document.toesExamItemForm.elements[i].name == 'trueOrFalseRadio') {
        document.toesExamItemForm.elements[i].disabled = true;
    }
}
//correct incorrect
if(document.toesExamItemForm.toesQuestionUserAnswer.value == document.toesExamItemForm.toesQuestionUserAnswer.value){
    document.getElementById('toesExamItemCorrectAnswer').style.display = '';
    document.getElementById('toesExamItemIncorrectAnswer').style.display = 'none';
}
else{
    document.getElementById('toesExamItemCorrectAnswer').style.display = 'none';
    document.getElementById('toesExamItemIncorrectAnswer').style.display = '';
}
//display explanation
document.getElementById('toesSection2').style.display = '';
break;
case 'matching type':
    navigator.display("10021");
    //pass selected choice to the textbox
    var itemMatchedAttributeArray = new Array();
    for(var i = 0; i < document.toesExamItemForm.length; i++){
        if(document.toesExamItemForm.elements[i].name == 'matchingTypeSelect[]'){
            itemMatchedAttributeArray[itemMatchedAttributeArray.length] = document.toesExamItemForm.elements[i].selectedIndex;
        }
    }
    document.toesExamItemForm.toesQuestionUserAnswer.value = itemMatchedAttributeArray.join(",");
    //check number of correct user answers...
    var correctAttributeMatching = document.toesExamItemForm.toesQuestionUserAnswer.value.split(",");
    var correctMatch = 0;
    for(var i = 0; i < itemMatchedAttributeArray.length; i++){
        if(itemMatchedAttributeArray[i] == correctAttributeMatching[i]){
            correctMatch++;
        }
    }
    document.toesExamItemForm.toesExamItemMatchingCorrectIncorrectTextbox.value = "you answered " + correctMatch + " correct match(es)
out of " + itemMatchedAttributeArray.length;
    //enter the correct values in the dropdown menu
    var dropdownMenuIndex = 0;
    for(var i = 0; i < document.toesExamItemForm.length; i++){
        if(document.toesExamItemForm.elements[i].name == 'matchingTypeSelect[]'){
            document.toesExamItemForm.elements[i].selectedIndex = correctAttributeMatching[dropdownMenuIndex];
            document.toesExamItemForm.elements[i].disabled = true;
            dropdownMenuIndex++;
        }
    }
    //display explanation
    document.getElementById('toesSection2').style.display = '';
    break;
case 'problem solving':
    navigator.display("10020");
    document.getElementById('toesSection2').style.display = '';
    document.getElementById('toesSection3').style.display = '';
    break;
case 'essay':
    navigator.display("10020");
    document.getElementById('toesSection2').style.display = '';
    document.getElementById('toesSection3').style.display = '';
    break;
default:
    break;
}
break;
case 'previous exam':
    document.toesExamItemForm.questionIDToDisplay.value = document.toesExamItemForm.nextQuestionIDToDisplay.value;
    document.toesExamItemForm.submit();
    break;
case 'review exam':
    break;
case 'take exam':
    switch(document.toesExamItemForm.toesExamItemQuestionType.value){
        case 'multiple choice':
            //pass selected choice to the textbox
            for(var i = 0; i < document.toesExamItemForm.length; i++){
                if((document.toesExamItemForm.elements[i].name == 'multipleChoiceRadio') && (document.toesExamItemForm.elements[i].checked)){
                    document.toesExamItemForm.toesQuestionUserAnswer.value = document.toesExamItemForm.elements[i].value;
                }
            }
            break;
        case 'true or false':
            navigator.display("10021");
            //pass selected choice to the textbox
            for(var i = 0; i < document.toesExamItemForm.length; i++){
                if((document.toesExamItemForm.elements[i].name == 'trueOrFalseRadio') && (document.toesExamItemForm.elements[i].checked)){
                    document.toesExamItemForm.toesQuestionUserAnswer.value = document.toesExamItemForm.elements[i].value;
                }
            }
            break;
        case 'matching type':
            //pass selected choice to the textbox
            var itemMatchedAttributeArray = new Array();
            var allAreZeros = new Boolean(1);
            for(var i = 0; i < document.toesExamItemForm.length; i++){
                if(document.toesExamItemForm.elements[i].name == 'matchingTypeSelect[]'){
                    itemMatchedAttributeArray[itemMatchedAttributeArray.length] = document.toesExamItemForm.elements[i].selectedIndex;
                    if((allAreZeros) && (document.toesExamItemForm.elements[i].selectedIndex != 0)){
                        allAreZeros = Boolean(0);
                    }
                }
            }
            if(allAreZeros){
                document.toesExamItemForm.toesQuestionUserAnswer.value = "";
            }
            else{
                document.toesExamItemForm.toesQuestionUserAnswer.value = itemMatchedAttributeArray.join(",");
            }
            break;
        case 'problem solving':
            break;
        case 'essay':
            break;
        default:
            break;
    }
}
document.toesExamItemForm.remainingTime.value = document.naviItemForm.remainingTime.value;
document.toesExamItemForm.questionIDToDisplay.value = document.toesExamItemForm.nextQuestionIDToDisplay.value;

```

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        document.toesExamItemForm.submit();
        break;
    default:
        break;
    }
}
function backTestQuestion(){
    switch(document.toesExamItemForm.operationMode.value){
        case 'previous question':
            document.toesExamItemForm.toesQuestionUserAnswer.value = '';
            switch(document.toesExamItemForm.toesExamItemQuestionType.value){
                case 'multiple choice':
                    navigateDisplay("01020");
                    for(var i = 0; i < document.toesExamItemForm.length; i++){
                        if((document.toesExamItemForm.elements[i].name == 'multipleChoiceRadio') && (document.toesExamItemForm.elements[i].checked == false) && (document.toesExamItemForm.elements[i].disabled == false)){
                            //hide explanation
                            document.getElementById('toesSection2').style.display = 'none';
                            break;
                        }
                    }
                    case 'true or false':
                        navigateDisplay("01020");
                        for(var i = 0; i < document.toesExamItemForm.length; i++){
                            if((document.toesExamItemForm.elements[i].name == 'trueOrFalseRadio') && (document.toesExamItemForm.elements[i].checked == false) && (document.toesExamItemForm.elements[i].disabled == false)){
                                //hide explanation
                                document.getElementById('toesSection2').style.display = 'none';
                                break;
                            }
                        }
                    case 'matching type':
                        navigateDisplay("01020");
                        for(var i = 0; i < document.toesExamItemForm.length; i++){
                            if((document.toesExamItemForm.elements[i].name == 'matchingTypeSelect[]') && (document.toesExamItemForm.elements[i].selectedIndex == 0) && (document.toesExamItemForm.elements[i].disabled == false)){
                                //hide explanation
                                document.getElementById('toesSection2').style.display = 'none';
                                break;
                            }
                        }
                    case 'problem solving':
                        navigateDisplay("01020");
                        document.getElementById('toesSection2').style.display = 'none';
                        document.getElementById('toesSection3').style.display = 'none';
                        break;
                    case 'essay':
                        navigateDisplay("01020");
                        document.getElementById('toesSection2').style.display = 'none';
                        document.getElementById('toesSection3').style.display = 'none';
                        break;
                    default:
                        break;
                }
            }
            break;
        case 'previous exam':
            document.toesExamItemForm.questionIDtoDisplay.value = document.toesExamItemForm.backQuestionIDtoDisplay.value;
            document.toesExamItemForm.submit();
            break;
        case 'review exam':
            break;
        case 'take exam':
            switch(document.toesExamItemForm.toesExamItemQuestionType.value){
                case 'multiple choice':
                    //pass selected choice to the textbox
                    for(var i = 0; i < document.toesExamItemForm.length; i++){
                        if((document.toesExamItemForm.elements[i].name == 'multipleChoiceRadio') && (document.toesExamItemForm.elements[i].checked) && (document.toesExamItemForm.toesQuestionUserAnswer.value == document.toesExamItemForm.elements[i].value)){
                            break;
                        }
                    }
                    case 'true or false':
                        navigateDisplay("10021");
                        //pass selected choice to the textbox
                        for(var i = 0; i < document.toesExamItemForm.length; i++){
                            if((document.toesExamItemForm.elements[i].name == 'trueOrFalseRadio') && (document.toesExamItemForm.elements[i].checked) && (document.toesExamItemForm.toesQuestionUserAnswer.value == document.toesExamItemForm.elements[i].value)){
                                break;
                            }
                        }
                    case 'matching type':
                        //pass selected choice to the textbox
                        var itemMatchedAttributeArray = new Array();
                        var allAreZeros = new Boolean(1);
                        for(var i = 0; i < document.toesExamItemForm.length; i++){
                            if((document.toesExamItemForm.elements[i].name == 'matchingTypeSelect[]') && (document.toesExamItemForm.elements[i].selectedIndex == 0) && (allAreZeros) && (document.toesExamItemForm.elements[i].selectedIndex != 0)){
                                itemMatchedAttributeArray[itemMatchedAttributeArray.length] = document.toesExamItemForm.elements[i].selectedIndex;
                                allAreZeros = Boolean(0);
                            }
                        }
                        if(allAreZeros){
                            document.toesExamItemForm.toesQuestionUserAnswer.value = "";
                        }
                        else{
                            document.toesExamItemForm.toesQuestionUserAnswer.value = itemMatchedAttributeArray.join(",");
                        }
                        break;
                    case 'problem solving':
                        break;
                    case 'essay':
                        break;
                    default:
                        break;
                }
            }
            document.toesExamItemForm.remainingTime.value = document.navigateForm.remainingTime.value;
            document.toesExamItemForm.questionIDtoDisplay.value = document.toesExamItemForm.backQuestionIDtoDisplay.value;
            document.toesExamItemForm.submit();
            break;
        default:
            break;
    }
}
function jumpToQuestion(idToDisplay){
    switch(document.toesExamItemForm.toesExamItemQuestionType.value){
        case 'multiple choice':
            //pass selected choice to the textbox
            for(var i = 0; i < document.toesExamItemForm.length; i++){
                if((document.toesExamItemForm.elements[i].name == 'multipleChoiceRadio') && (document.toesExamItemForm.elements[i].checked) && (document.toesExamItemForm.toesQuestionUserAnswer.value == document.toesExamItemForm.elements[i].value)){
                    break;
                }
            }
            break;
        case 'true or false':
            navigateDisplay("10021");
    }
}

```

```

//pass selected choice to the textbox
for(var i = 0; i < document.toesExamItemForm.length; i++){
    if((document.toesExamItemForm.elements[i].name == 'trueOrFalseRadio') && (document.toesExamItemForm.elements[i].checked)){
        document.toesExamItemForm.toesQuestionUserAnswer.value = document.toesExamItemForm.elements[i].value;
    }
}
break;
case 'matching type':
//pass selected choice to the textbox
var itemMatchedAttributeArray = new Array();
var allAreZeros = new Boolean(1);
for(var i = 0; i < document.toesExamItemForm.length; i++){
    if(document.toesExamItemForm.elements[i].name == 'matchingTypeSelect[]'){
        itemMatchedAttributeArray[i].length = document.toesExamItemForm.elements[i].selectedIndex;
        if(allAreZeros && (document.toesExamItemForm.elements[i].selectedIndex != 0)){
            allAreZeros = Boolean(0);
        }
    }
}
if(allAreZeros){
    document.toesExamItemForm.toesQuestionUserAnswer.value = "";
}
else{
    document.toesExamItemForm.toesQuestionUserAnswer.value = itemMatchedAttributeArray.join(",");
}
break;
case 'problem solving':
break;
case 'essay':
break;
default:
break;
}
//alert(i dToDisplay);
if(i dToDisplay != null){
    document.toesExamItemForm.questionIdToDisplay.value = i dToDisplay;
}
else{
    document.toesExamItemForm.questionIdToDisplay.value = document.navigatonForm.jumpTo.value;
}
document.toesExamItemForm.submit();
}
function navigatonDisplay(di splayBit){
//bit assignment:
//1 = back button
//2 = next button
//3 = jump to elements
//4 = remaining elements
//5 = toesQuestionAnswerElements
if(di splayBit.substring(0,1) == '1'){
    document.getElementById('backingButton').style.display = '';
    document.getElementById('backingButton').style.display = 'none';
}
else{
    document.getElementById('backingButton').style.display = 'none';
    document.getElementById('backingButton').style.display = '';
}
if(di splayBit.substring(1,2) == '1'){
    document.getElementById('nextingButton').style.display = '';
    document.getElementById('nextingButton').style.display = 'none';
}
else{
    document.getElementById('nextingButton').style.display = 'none';
    document.getElementById('nextingButton').style.display = '';
}
if(di splayBit.substring(2,3) == '1'){
    document.getElementById('navTextJumpTo').style.color = '#FFFFFF';
    document.navigatonForm.jumpTo.disabled = false;
}
else{
    document.getElementById('navTextJumpTo').style.color = '#2F972F';
    document.navigatonForm.jumpTo.disabled = true;
}
switch(di splayBit.substring(3,4)){
case '0':
    document.getElementById('navTextRemainingTime').style.color = '#2F972F';
    document.navigatonForm.remainingTime.disabled = true;
    document.getElementById('buttonGroup').style.display = '';
    document.getElementById('remainingGroup').style.display = 'none';
    break;
case '1':
    document.getElementById('navTextRemainingTime').style.color = '#FFFFFF';
    document.navigatonForm.remainingTime.disabled = false;
    document.getElementById('buttonGroup').style.display = 'none';
    document.getElementById('remainingGroup').style.display = '';
    break;
case '2':
    document.getElementById('buttonGroup').style.display = 'none';
    document.getElementById('remainingGroup').style.display = 'none';
    break;
default:
    break;
}
}
switch(di splayBit.substring(4,5)){
case '0':
    document.getElementById('toesQuestionAnswers').style.display = 'none';
    break;
case '1':
    document.getElementById('toesQuestionAnswers').style.display = '';
    break;
default:
    break;
}
}
focusStatus = null;
function windowLostFocus(){
    if((focusStatus && (onbeforeunloadFired != 1) && (!studentModuleClosed))){
        //for firefox compatibility we issue some delay... (ensures that a close-student-module window event does not precede the onBlur)
        setTimeout("windowLostFocusBlock()", 100);
    }
    else{
        focusStatus = 1;
        opener.bringExamToFront(sel f.window);
    }
}
function windowLostFocusBlock(){
    if(document.toesExamItemForm.style.value == "printStyle"){
        return false;
    }
    if(document.navigatonForm.jumpTo.focus){
        return false;
    }
}
opener.bringExamToFront(sel f.window);
lostFocusCount++;
if(lostFocusCount > 10){
    lostFocusCount = 0;
    document.toesExamItemForm.violation.value = "blocked";
    document.toesExamItemForm.offense.value = "TOES blocked you because the examination window lost focus";
}

```

```

        jumpToQuestion(document.toObject().questions[id].value);
        clearInterval(intervalID);
    }
}

function keyboard() {
    document.onkeydown = register;
    document.onkeyup = register;
    var x = document.forms[0].elements[0];
    x.onkeydown = register;
    x.onkeyup = register;
}

function register(e) {
    if (!e) e = window.event;
    var keyInfo = String.fromCharCode(e.keyCode) + '\n';
    keyInfo += 'Event: ' + e.type + '\n\n';
    keyInfo += 'You pressed: ' + String.fromCharCode(e.keyCode) + ' [Decimal: ' + e.keyCode + ']\n';
    keyInfo += 'ALT: ' + e.altKey + '\n';
    keyInfo += 'CTRL: ' + e.ctrlKey + '\n';
    keyInfo += 'SHIFT: ' + e.shiftKey + '\n';
    keyInfo += 'REPEAT: ' + e.repeat + '\n';
    keyInfo += 'WHICH: ' + e.which + '\n';
    window.status = keyInfo;
    if (e.keyCode == 44) {
        //alert("PRINTSCREEN");
    }
    //alert(keyInfo);
    //document.forms[1].log.value = keyInfo;
}

function rightClick() {
    if (document.layers) {
        document.captureEvents(Event.MOUSEDOWN);
        document.onmousedown = clickNS4;
    }
    else if (document.all && !document.getElementById) {
        document.onmousedown = clickNS4;
    }
    document.oncontextmenu = new Function("return false;");
}

function clickE4() {
    if (event.button == 2) {
        alert(message);
        return false;
    }
}

function clickNS4(e) {
    if (document.layers || document.getElementById && document.all) {
        if (e.which == 2 || e.which == 3) {
            alert(message);
            return false;
        }
    }
}

```

questionnaire.php

```

<?php
$validSystemAction = true;

switch($operationMode) {
    case 'preview question':
        break;
    case 'preview exam':
        if ($examItemOrder != "") {
            $examItemOrderArray = explode(",", $examItemOrder);
            $questionTypeArray = explode(",", $questionType);
        }
        else {
            $questionTypeArray = array('true or false', 'multiple choice', 'matching type', 'problem solving', 'essay');
            connect_db();
            foreach($questionTypeArray AS $questionTypeArrayElem) {
                $query = "SELECT exam_item.question_id FROM exam_item, question WHERE question.question_id=exam_item.question_id AND question.question_id=$questionTypeArrayElem AND exam_item.exam_id=$examIDToPreview ORDER BY question.question_id ASC ";
                $result = mysql_query($query);
                while($myrow = mysql_fetch_row($result)) {
                    $examItemOrderArray[] = $myrow[0];
                    $questionTypeArray[] = $questionTypeArrayElem;
                }
            }
            $examItemOrder = implode(",", $examItemOrderArray);
            $questionType = implode(",", $questionTypeArray);
            $questionsToDisplay = $examItemOrderArray[0];
        }
        for($i = 0; $i < count($examItemOrderArray); $i++) {
            if ($examItemOrderArray[$i] == $questionsToDisplay) {
                $questionsToDisplayIndex = $i;
                break;
            }
        }
        $backButtonVisible = "0";
        $nextButtonVisible = "0";
        if ($questionsToDisplayIndex != 0) {
            $backButtonVisible = "1";
            $backQuestionsToDisplay = $examItemOrderArray[$questionsToDisplayIndex - 1];
        }
        if ($questionsToDisplayIndex != count($examItemOrderArray) - 1) {
            $nextButtonVisible = "1";
            $nextQuestionsToDisplay = $examItemOrderArray[$questionsToDisplayIndex + 1];
        }
        $navigationBit = $backButtonVisible.$nextButtonVisible."120";
        break;
    case 'review exam':
        break;
    case 'take exam':
        $takeExamDisplayOverride = "style='display: none;'";
        connect_db();
        //apply clipping operation when needed...
        $query = "UPDATE registration SET remainingTime = '000000' WHERE batch_id='$batch_id' AND student_number='$student_number' AND TIME_TO_SEC(remainingTime) < 0 ";
        $result = mysql_query($query);
        //apply system operations depending on examination violations...
        switch($violation) {
            case 'blocked':
                $query = "UPDATE registration SET status='blocked', offense='$offense' WHERE batch_id='$batch_id' AND student_number='$student_number' ";
                $result = mysql_query($query);
                break;
            case 'time is up':
                $query = "UPDATE registration SET status='finished', remainingTime='00:00:00', offense='none' WHERE batch_id='$batch_id' AND student_number='$student_number' ";
                $result = mysql_query($query);
                break;
            default:
                break;
        }
        //check if the examinee is allowed to take the exam...
        $query = "SELECT remainingTime, status, authorization, offense FROM registration WHERE batch_id='$batch_id' AND student_number='$student_number' ";
        $result = mysql_query($query);
        $myrow = mysql_fetch_row($result);

```



```

    $result = mysql_query($query);
    for($i = 0; $i < count($examItemOrderArray); $i++){
        if($examItemOrderArray[$i] == $questionIdToDisplay){
            $questionIdToDisplayIndex = $i;
            break;
        }
    }
    //set display modification bits
    $backButtonVisible = "0";
    $nextButtonVisible = "0";
    if($questionIdToDisplayIndex != 0){
        $backButtonVisible = "1";
        $backQuestionIdToDisplay = $examItemOrderArray[$questionIdToDisplayIndex - 1];
    }
    if($questionIdToDisplayIndex != count($examItemOrderArray) - 1){
        $nextButtonVisible = "1";
        $nextQuestionIdToDisplay = $examItemOrderArray[$questionIdToDisplayIndex + 1];
    }
    $navigationBits = $backButtonVisible.$nextButtonVisible."110";
    $answerStringArray = explode("-", $answerString);
    break;
default:
    break;
}
if($validSystemAction){
    print_Banner();
    print_Navigation();
    print_Body();
}
else{
    echo "<html>";
    echo "<head>";
    echo "<title>TOES EXAM WINDOW</title>";
    echo "<SCRIPT LANGUAGE='JavaScript' SRC='questionnaire.js'></SCRIPT>";
    echo "</head>";
    echo "<body onLoad='loadExamWindowWidthVideo()'>";
    echo "<table width='100%' height='100%'><tr><td align='center' valign='center'>";
    echo "<table border='1' align='center' valign='center'>";
    echo "<tr><td align='center' valign='center' bgcolor='#D0D0D0'><font size='9'>$videoLocation</font></td></tr>";
    echo "<tr><td align='center' valign='center'>$offense</td></tr>";
    echo "<tr><td align='center'>";
    if($videoLocation == "blocked"){
        echo "<form name='toesExamItemForm' method='post' action='$PHP_SELF'>";
        echo "<input type='hidden' name='student_number' value='$student_number' />";
        echo "<input type='hidden' name='batch_id' value='$batch_id' />";
        echo "<input type='hidden' name='operationMode' value='$operationMode' />";
        echo "<input type='submit' value='continue' />";
        echo "</form>";
    }
    }
    else{
        echo "<button onClick='window.close()'>EXIT</button>";
    }
    echo "</td></tr>";
    echo "</table>";
    echo "</td></tr></table>";
    echo "</body>";
    echo "</html>";
}
////////////////////////////////////
function print_Banner(){
    global $operationMode;
    global $navigationBits;
    global $exitStatus;
    global $style;
    echo "<html><head>";
    echo "<title>TOES EXAM WINDOW</title>";
    echo "<SCRIPT LANGUAGE='JavaScript' SRC='questionnaire.js'></SCRIPT>";
    if($style == "printStyle"){
        echo "<link rel='stylesheet' type='text/css' href='questionnaire_Style_Print.css' />";
    }
    else{
        echo "<link rel='stylesheet' type='text/css' href='questionnaire_Style.css' />";
    }
    echo "</head>";
    if(($operationMode == "take exam") && ($exitStatus == "final")){
        global $batch_id;
        global $student_number;
        connect_Db();
        $query = "UPDATE registration SET status='finished', remainngTime='00:00:00' WHERE batch_id='$batch_id' AND student_number='$student_number'";
        $result = mysql_query($query);
        echo "<body onLoad='closeWindow()'>";
    }
    else{
        echo "<body onLoad='window.onload(\"$operationMode\", \"$navigationBits\")' onBlur='return windowLostFocus()'>";
    }
    echo "<div id='first'><img src='/toes/files/pi/cs/toes_logo.jpg' />";
    switch($operationMode){
        case 'previous question':
            echo "<img src='/toes/files/pi/cs/question_previous.gif' />";
            break;
        case 'previous exam':
            echo "<img src='/toes/files/pi/cs/exam_previous.gif' />";
            break;
        case 'take exam':
            echo "<img src='/toes/files/pi/cs/exam.gif' />";
            default:
            break;
    }
    echo "</div>";
}
////////////////////////////////////
function print_Navigation(){
    foreach($GLOBALS as $key=>$value){
        if (ereg("[a-z]", $key[0], $array )){
            global $$key;
        }
    }
    echo "<div id='second'>";
    echo "<table cellpadding='0' cellspacing='0'>";
    echo "<tr><td>";
    echo "<table cellpadding='0' cellspacing='0'>";
    echo "<form name='navigationForm'>";
    echo "<tr><td style='border-right: 1px dashed #d0d0d0'>";
    $nextImgButtonHref = "href='javascript:nextTestQuestion()'";
    $backImgButtonHref = "href='javascript:backTestQuestion()'";
    echo "<a id='backImgButton' $backImgButtonHref target='\"_parent\"' onMouseover='\"document.b6.src= back-over.gif'\">";
    onMouseout="\document.b6.src= back-off.gif" style="text-decoration: none;"></a>";
    echo "<img id='backImgButton' nacti ve' src=' back-i nacti ve.gif' style='display: none' />";
    echo "<a id='nextImgButton' $nextImgButtonHref target='\"_parent\"' onMouseover='\"document.b5.src= next-over.gif'\">";
    onMouseout="\document.b5.src= next-off.gif" style="text-decoration: none;"></a>";
    echo "<img id='nextImgButton' nacti ve' src=' next-i nacti ve.gif' style='display: none' />";
    echo "</td>";
    echo "<td style='border-right: 1px dashed #d0d0d0' nowrap>";
    echo "<font id='navTextJumpTo' color='white' size='4'>&nbsp;Jump&nbsp;To</font>";
    echo "&nbsp;<select name='jumpTo' onChange='jumpToQuestion()'>";
    switch($operationMode){

```



```

switch($activeTab){
case 'Tutorial':
if($activeTab == ''){
$activeTab = 'Tutorial_Schedule';
}
if($activeTab == 'Tutorial_Schedule')
print("<li class='tabselected'>Tutorial_Schedule</li>");
else
print("<li><a href='?activeNav=$activeNav&activeTab=Tutorial_Schedule'>Tutorial_Schedule</a></li>");
if($activeTab == 'Tutorial_Attendance')
print("<li class='tabselected'>Tutorial_Attendance</li>");
break;
case 'Subject':
print("<li class='tabselected'>Subject_List</li>");
break;
case 'Topic':
print("<li class='tabselected'>Topic_List</li>");
break;
case 'Question':
if($activeTab == ''){
$activeTab = 'Add_Question';
}
if($activeTab == 'Add_Question')
print("<li class='tabselected'>Add_Question</li>");
else
print("<li><a href='?activeNav=$activeNav&activeTab=Add_Question'>Add_Question</a></li>");
if($activeTab == 'Edit_Question')
print("<li class='tabselected'>Edit_Question</li>");
else
print("<li><a href='?activeNav=$activeNav&activeTab=Search_
Question&redirectedFromEdit=yes&qSubject=any&qTopic=any&qQuestionType=any&qDfficultyt=any&qSortedBy=Question_Id&qDirecti on=ascendi ng'>Edit_
Question</a></li>");
if($activeTab == 'Search_Question')
print("<li class='tabselected'>Search_Question</li>");
else
print("<li><a href='?activeNav=$activeNav&activeTab=Search_
Question&qSubject=any&qTopic=any&qQuestionType=any&qDfficultyt=any&qSortedBy=Question_Id&qDirecti on=ascendi ng'>Search_
Question</a></li>");
break;
case 'My Account':
$activeTab = 'Change_Password';
if($activeTab == 'Change_Password')
print("<li class='tabselected'>Change_Password</li>");
else
print("<li><a href='?activeNav=$activeNav&activeTab=Change_Password'>Change_Password</a></li>");
break;
default:
break;
}
print("</ul>");
}
}
function print_Body(){
print("<div class='content'>");
print("<div class='inside'>");
//print("<div class='insidebody'>");

print_Function();

//print("</div>");
print("</div>");
print("</div>");
}
}
function print_Function(){
global $activeNav;
global $activeTab;
global $questionEditFromBrowse;
switch($activeNav){
case 'Tutorial':
switch($activeTab){
case 'Tutorial_Schedule':
manage_Tutorial_Schedule();
break;
case 'Tutorial_Attendance':
manage_Tutorial_Attendance();
break;
default:
print("Please select from the tabbed-menu");
break;
}
break;
case 'Subject':
manage_Subject();
break;
case 'Topic':
manage_Topic();
break;
case 'Question':
switch($activeTab){
case 'Add_Question':
add_Question();
break;
case 'Edit_Question':
if(isset($questionEditFromBrowse)){
connect_Db();
$query = "SELECT exam_id FROM exam_item WHERE question_id='$questionEditFromBrowse' LIMIT 1 ";
$result = mysql_query($query);
if(mysql_num_rows($result) == 0){
get_Question_Info();
}
else{
echo "error: the system detected EXAMS related to the QUESTION therefore it CAN'T be EDITED.<br><br>";
question_Query();
break;
}
}
add_Question();
break;
case 'Search_Question':
question_Query();
break;
default:
print("Please select from the tabbed-menu");
break;
}
}
break;
case 'My Account':
switch($activeTab){
case 'Change_Password':
manage_Password();
break;
default:
print("Please select from the tabbed-menu");
break;
}
}
break;
default:
}
}

```

```

        print("Please select from the menu ");
        break;
    }
}
////////////////////////////////////
function print_Footer() {
    print("<div>");
    print("<div id='footer'>");
    print("<div>University of the Philippines Manila, Learning Resource Center's</div>");
    print("<div>tutorial and Online Examination System (TOES)</div>");
    print("<div>Copyright © 2006</div>");
    print("</div>");
    print("<div style='width: 780px'>&nbsp;&nbsp;&nbsp;</div>");
    print("</div>");
    print("</div>");
    echo "<div style='background-color: #008000'>&nbsp;&nbsp;&nbsp;</div>";
    print("</body>");
    print("</html>");
}
////////////////////////////////////
function toHtml($htmlLine) {
    return (str_replace("\n", "\\\n", $htmlLine));
}
////////////////////////////////////
function authorized_User() {
    global $username;
    global $password;
    global $errorMessage;
    global $hasLoggedIn;
    global $userScript;

    connect_Db();
    $query = "SELECT * FROM irc_personnel where username=' $username' and password=' $password' and personnelType='staff' ";
    $result = mysql_query($query);
    $myrow = mysql_fetch_array($result);

    if(($username != NULL)&&($password != NULL)&&($myrow[username] == $username)&&($myrow[password] == $password)){
        $hasLoggedIn=1;
        session_register("hasLoggedIn");
        session_register("username");
        session_register("password");
        $userScript= 'staff.php';
        session_register("userScript");
    }
    else{
        if(($username == NULL)||($password == NULL)){
            $errorMessage = "error: Please enter your username and password!";
        }
        else{
            $errorMessage = "error: Invalid username or password!";
        }
        session_register("errorMessage");
        $hasLoggedIn=2;
        session_register("hasLoggedIn");
    }
}
////////////////////////////////////
function display_Login_Form() {
    global $username;
    global $password;
    global $hasLoggedIn;
    global $Logout;
    global $errorMessage;
    global $returnToHomepage;

    echo "<html style='background-image: url(\"/toes/files/pics/toes_logo_userLogin.jpg\");'>";
    echo "<head>";
    echo "<title>STAFF Login Page</title>";
    echo "<SCRIPT LANGUAGE='JavaScript' SRC='staff_JavaScript.js'></SCRIPT>";
    echo "</head>";
    if($returnToHomepage){
        echo "<body onLoad='window.location=\"/toes/\">";
    }
    else{
        echo "<body onLoad='animateUsingToesColors(\"toesHomeLink\");>";
    }
    echo "<table width='100%' height='100%' border='0' cellpadding='0' cellspacing='0'>";
    echo "<tr><td valign='middle' align='center'>";
    echo "<table align='center' border='0' cellpadding='0' cellspacing='0'>";
    echo "<tr><td align='right' bgcolor=' #008000'><b><a id='toesHomeLink' href=' /toes/' style='color: white; text-decoration: none; ' back to TOES home page/a></b></td></tr>";
    echo "<tr><td bgcolor=' #008000'><img src=' /toes/files/pics/staff_o.gif' style='border: 0 none; ' /></td></tr>";
    echo "<tr><td bgcolor=' #008000'>&nbsp;&nbsp;&nbsp;</td></tr>";
    echo "<tr><td align='center' bgcolor=' #008000'>";
    //echo " [username=$username][password=$password][hasLoggedIn=$hasLoggedIn][Logout=$Logout][userScript=$userScript]";
    print("<table bgcolor=' #008000'>");
    print("<form name='loginForm' method='post' action=' $PHP_SELF' onSubmit='return loginFormCheck(this)'>");
    if($errorMessage != ""){
        echo "<tr><td colspan=' 2'>$errorMessage</td></tr>";
    }
    print("<tr><td>Username:</td><td><input type='text' name='username'></td></tr>");
    print("<tr><td>Password:</td><td><input type='password' name='password'></td></tr>");
    print("<tr><td colspan=' 2' align='center'><input type='submit' name='Login' value='Login'></td></tr>");
    print("</form>");
    print("</table>");
    echo "</td></tr>";
    echo "<tr><td bgcolor=' #008000'>&nbsp;&nbsp;&nbsp;</td></tr>";
    echo "</td></tr></table>";
    echo "</body>";
    echo "</html>";
}
////////////////////////////////////
function refresh_Page($location) {
    header("Location: $location");
}
////////////////////////////////////
function connect_Db() {
    // $dbuser = " ";
    // $dbpassword = " ";
    // $dbhost = 'localhost';
    // $dbname = 'eav';
    // $dbconnection = mysql_connect ($dbhost, $dbuser, $dbpassword);
    // $mysql_select_db ($dbname);
    $db = mysql_connect("localhost", "");
    mysql_select_db("toes", $db);
}
////////////////////////////////////
?>

staff_Fcns.php
<?php
////////////////////////////////////
function manage_Subject() {
    foreach($GLOBALS as $key=>$value) {
        if (ereg("[a-z]", $key[0], $array)) {
            global $$key;
        }
    }
}

```



```

else{
}
}
global $verifierCode;
//check if the page is refreshed...
$refreshed = 0;
if($action){
if($verifierCode == $code){
$refreshed = 1;
}
$verifierCode = $code;
session_register("verifierCode");
}
//obsessive check for dependencies...
if($action == 'delete'){
connect_Db();
$query = "SELECT topic_id FROM topic WHERE subject_id=' $subjToDelete' LIMIT 1 ";
$result = mysql_query($query);
if(mysql_num_rows($result) > 0){
echo "error: the system detected TOPICS related to the SUBJECT therefore it CAN'T be DELETED.<br><br>";
$action = "";
}
}
if($action == 'submitEdited'){
connect_Db();
$query = "SELECT topic_id FROM topic WHERE subject_id=' $subjToEdit' LIMIT 1 ";
$result = mysql_query($query);
if(mysql_num_rows($result) > 0){
echo "error: the system detected TOPICS related to the SUBJECT therefore the CHANGES CAN'T be APPLIED.<br><br>";
$action = "";
}
}
switch($action){
case 'delete':
connect_Db();
$query = "DELETE FROM subject WHERE subject_id=' $subjToDelete' ";
$result = mysql_query($query);
//rmkdir("C:\apache\htdocs\toes\files\$subjToDelete");
$fileLink = "C:\apache\htdocs\toes\files\$subjToDelete";
//delete the directory including all of its contents...
if(is_dir($fileLink)){
$dh = opendir($fileLink);
while(gettype($file = readdir($dh)) != boolean){
if(($file != ".") && ($file != "..")){
}
else{
if(is_file($fileLink.'\'.'$file)){
unlink($fileLink.'\'.'$file);
}
if(is_dir($fileLink.'\'.'$file)){
rmdir($fileLink.'\'.'$file);
}
}
}
closedir($dh);
rmdir($fileLink);
}
print(" '$subjName' was successfully deleted.<br><br>");
break;
case 'add':
if($refreshed == 0){
connect_Db();
$query = "SELECT subject_id FROM subject WHERE subjectName=' $subjName' AND subjectDescription=' $subjectDescription' ";
$result = mysql_query($query);
if(mysql_num_rows($result) == 0){
$nextId = get_next_id('subject_id', 'subject');
$query = "INSERT INTO subject (subject_id, subjectName, subjectDescription) VALUES (' $nextId', '$subjName', '$subjectDescription' ) ";
$result = mysql_query($query);
mkdir("C:\apache\htdocs\toes\files\$nextId", 0777);
print(" '$subjName' was successfully added.<br><br>");
}
else{
echo "error: the SUBJECT submitted already EXISTS in the database therefore it was not ADDED.<br><br>";
}
}
break;
case 'submitEdited':
connect_Db();
$query = "SELECT subject_id FROM subject WHERE subjectName=' $subjName' AND subjectDescription=' $subjectDescription' AND subject_id=' $subjToEdit' ";
$result = mysql_query($query);
if(mysql_num_rows($result) == 0){
$query = "UPDATE subject SET subjectName = '$subjName', subjectDescription = '$subjectDescription' WHERE subject_id = '$subjToEdit' ";
$result = mysql_query($query);
print(" '$subjName' was successfully edited.<br><br>");
unset($subjToEdit);
}
else{
echo "error: the SUBJECT submitted already EXISTS in the database therefore the CHANGES CAN'T be APPLIED.<br><br>";
$action = "edit";
}
break;
default:
break;
}
}
//form for sorting the table...
if(isset($direction)){
$direction = "DESC";
}
if($column != ""){
$query = "SELECT s.subject_id, s.subjectName, s.subjectDescription, COUNT(t.subject_id) FROM subject AS s LEFT JOIN topic AS t ON (s.subject_id=t.subject_id) GROUP BY s.subject_id ORDER BY $column $direction";
}
else{
$query = "SELECT s.subject_id, s.subjectName, s.subjectDescription, COUNT(t.subject_id) FROM subject AS s LEFT JOIN topic AS t ON (s.subject_id=t.subject_id) GROUP BY s.subject_id ";
}
echo "<form name='availableSubjectSortForm' method='POST' action='?activeNav=$activeNav' style='display:none;' >";
echo "<input type='hidden' name='column' value=' $column' />";
echo "<input type='hidden' name='direction' value=' $direction' />";
echo "</form>";
//display the subjects table here...
connect_Db();
$result = mysql_query($query);
echo "<table border='1' >";
echo "<tr><td colspan='4' align='center'>List of Available Subjects</td></tr>";
echo "<tr><td></td></tr>";
$availableSubjectColumnNames = array('Subject Name', 'Subject Description');
$availableSubjectColumnNamesDb = array('s.subjectName', 's.subjectDescription');
for($i = 0; $i < count($availableSubjectColumnNames); $i++){
echo "<td align='center' >";
echo "<a href='\"#\"' javascript: void availableSubjectSortJs(\" $availableSubjectColumnNamesDb[$i] \")' style='text-decoration:none; color:blue;' >";
echo " $availableSubjectColumnNames[$i]";
if($availableSubjectColumnNamesDb[$i] == $column){
echo "&nbsp;";
if($direction == "ASC"){
echo "&#593";
}
}
}
}

```

```

        else{
            echo "&#8595";
        }
    }
    echo "</a></td>";
}
echo "</tr>";
if(mysql_num_rows($result) == 0){
    echo "<tr><td colspan='4' align='center'>no records</td></tr>";
}
while($myrow = mysql_fetch_row($result)){
    echo "<tr>";
    if($myrow[3] == 0){
        if($myrow[0] == $subj ToEdit){
            echo "<td colspan='2' align='center'>***EDITING***</td>";
        }
        else{
            echo "
                                align='center'><a
href='?di recti on=$di recti on&col umn=$col umn&acti veNav=Subj ect&acti veTab=&acti on=edi t&subj ToEdit t=$myrow[0]&subj Name=$myrow[1]&subj Descri pti on=$my
row[2]'>edi t</a></td>";
            echo "
                                align='center'><a
href='?di recti on=$di recti on&col umn=$col umn&acti veNav=Subj ect&acti veTab=&acti on=del ete&subj ToDel ete=$myrow[0]&subj Name=$myrow[1]'>del ete</a></td
>";
        }
    }
    else{
        echo "<td align='center'>edi t</td>";
        echo "<td align='center'>del ete</td>";
    }
    echo "<td>$myrow[1]</td><td>$myrow[2]</td></tr>";
}
echo "</table><br>";

//display the subject form here...
if($action == 'edit'){
    echo "<table border='1'>";
    echo "<form name='subjectForm' method='post' action='?acti veNav=Subj ect&acti veTab=&acti on=submi tEdi ted&subj ToEdit t=$subj ToEdit t'
onSubmi t='return subjectFormCheck(this)'>";
    echo "<tr><td colspan='2' align='center'>Edi t Subject</td></tr>";
    echo "<tr><td>Subj ect Name</td>";
    echo "<td><input type='text' name='subj Name' value='$subj Name'></td></tr>";
    echo "<tr><td>Subj ect Descri pti on</td>";
    echo "<td><textarea name='subj Descri pti on' rows='3' col s='36'>$subj Descri pti on</textarea></td></tr>";
    echo "<tr><td colspan='2' align='center'><input type='submi t' name='addSubj' value='apply changes'>";
    echo "<button type='reset' name='reset' value='reset'>reset</button></td></tr>";
    echo "</form></table>";
}
else{
    echo "<table border='1'>";
    echo "<form name='subjectForm' method='post' action='?acti veNav=Subj ect&acti veTab=&acti on=add' onSubmi t='return subjectFormCheck(this)'>";
    echo "<tr><td colspan='2' align='center'>Add New Subject</td></tr>";
    echo "<tr><td>Subj ect Name</td>";
    $time = time();
    echo "<input type='hidden' name='code' value='$time' />";
    echo "<td><input type='text' name='subj Name'></td></tr>";
    echo "<tr><td>Subj ect Descri pti on</td>";
    echo "<td><textarea name='subj Descri pti on' rows='3' col s='36'></textarea></td></tr>";
    echo "<tr><td colspan='2' align='center'><input type='submi t' name='addSubj' value='add'>";
    echo "<button type='reset' name='reset' value='reset'>reset</button></td></tr>";
    echo "</form></table>";
}
}
}
////////////////////////////////////
function manage_Topic(){
    foreach($GLOBALS as $key=>$value){
        if (ereg("[a-z]", $key[0], $array )){
            global $$key;
        }
        else{
        }
    }
    global $verifierCode;

    //check if the page is refreshed...
    $refreshed = 0;
    if($action){
        if($verifierCode == $code){
            $refreshed = 1;
        }
        $verifierCode = $code;
        sessi on_regi ster("$verifierCode");
    }

    echo "<form name='loginForm' method='post' action='?acti veNav=Topi c&acti veTab=&acti on=changeSubj'>";
    echo "<select subject:<br>";
    echo "<select name='subj Current' onChange='this. form. submi t()'>";
    connect_Db();
    $query = "SELECT subj ect_i d, subj ectName FROM subj ect ORDER BY subj ectName ASC ";
    $result = mysql_query($query);
    if(($subj Current == '')||($subj Current == 'Select')){
        echo "<opti on selected='selected' value='Select'>Pl ease Select</opti ons>";
    }
    while($myrow = mysql_fetch_row($result)){
        echo "<opti on>";
        if($myrow[0] == $subj Current){
            echo " selected='selected'";
        }
        echo " value='$myrow[0]' l abel='$myrow[1]'>$myrow[1]</opti ons>";
    }
    echo "</select>";
    //echo "<input type='submi t' name='chooseSubj' value='go'>";
    echo "</form>";
    //obsessi ve check for dependenci es...
    if($action == 'delete'){
        $query = "SELECT questi on_i d FROM questi on WHERE topi c_i d=' $subj ToDel ete' LI MI T 1 ";
        $result = mysql_query($query);
        if(mysql_num_rows($result) > 0){
            echo "error: the system detected QUESTIONS related to the TOPIC therefore it CAN'T be DELETED. <br><br>";
            $action = "";
        }
    }
    if($action == 'submi tEdi ted'){
        $query = "SELECT questi on_i d FROM questi on WHERE topi c_i d=' $subj ToEdi t' LI MI T 1 ";
        $result = mysql_query($query);
        if(mysql_num_rows($result) > 0){
            echo "error: the system detected QUESTIONS related to the TOPIC therefore the CHANGES CAN'T be APPLIED. <br><br>";
            $action = "";
        }
    }
}
swi tch($action){
    case 'delete':
        connect_Db();
        $query = "DELETE FROM topi c WHERE topi c_i d=' $subj ToDel ete' ";
        $result = mysql_query($query);
        rmdir("C:\apache\htdocs\toes\files\\$subj Current\\$subj ToDel ete");
        print(" '$subj Name' was successful y deleted.<br>");
        break;
    case 'add':
}

```

```

if($refreshed == 0){
connect_Db();
$query = "SELECT topic_id FROM topic WHERE subject_id=' $subjCurrent' AND topicName=' $subjName' AND deptNum=' $deptNum' ";
$result = mysql_query($query);
if(mysql_num_rows($result) == 0){
    $nextId = get_Next_Id('topic_id', 'topic');
    $query = "INSERT INTO topic (topic_id, subject_id, topicName, deptNum) VALUES (' $nextId', ' $subjCurrent', ' $subjName', ' $deptNum' ) ";
    mkdir("C:\apache\htdocs\files\files\ $subjCurrent\ $nextId", 0777);
    $result = mysql_query($query);
    print(" $subjName was successfully added. <br><br>");
}
else{
    echo "error: the TOPIC submitted already EXISTS in the database therefore it was not ADDED. <br><br>";
}
}
break;
case 'submitted':
connect_Db();
$query = "SELECT topic_id FROM topic WHERE subject_id=' $subjCurrent' AND topicName=' $subjName' AND deptNum=' $deptNum' AND
topic_id=' $subjToEdit ";
$result = mysql_query($query);
if(mysql_num_rows($result) == 0){
    $query = "UPDATE topic SET topicName = ' $subjName', deptNum = ' $deptNum' WHERE topic_id = ' $subjToEdit' ";
    $result = mysql_query($query);
    print(" $subjName was successfully edited. <br>");
    unset($subjToEdit);
}
else{
    echo "error: the TOPIC submitted already EXISTS in the database therefore the CHANGES CAN'T be APPLIED. <br><br>";
    $action = "edit";
}
break;
default:
break;
}
//form for sorting table...
if(!isset($direction)){
    $direction = "DESC";
}
if($colUm != ""){
    $query = "SELECT t.topic_id, t.subject_id, t.topicName, t.deptNum, COUNT(q.topic_id) FROM topic AS t LEFT JOIN question AS q ON
(t.topic_id=q.topic_id) WHERE t.subject_id=' $subjCurrent' GROUP BY t.topic_id ORDER BY $colUm $direction";
}
else{
    $query = "SELECT t.topic_id, t.subject_id, t.topicName, t.deptNum, COUNT(q.topic_id) FROM topic AS t LEFT JOIN question AS q ON
(t.topic_id=q.topic_id) WHERE t.subject_id=' $subjCurrent' GROUP BY t.topic_id ";
}
echo "<form name='availableTopicSortForm' method='POST' action='?action=saveNav' style='display:none;' >";
echo "<input type='hidden' name='column' value=' $colUm' />";
echo "<input type='hidden' name='direction' value=' $direction' />";
echo "<input type='hidden' name='subjCurrent' value=' $subjCurrent' />";
echo "</form>";
//display topic table here...
$resultTopic = mysql_query($query);
echo "<table border='1' >";
echo "<tr><td colspan='4' align='center'>List of Topics</td></tr>";
echo "<tr><td></td><td></td><td></td><td></td>";
if(($subjCurrent == "") || mysql_num_rows($resultTopic) == 0){
    echo "<td align='center'>Topic Name</td><td align='center'>Departmental number</td>";
}
else{
    $availableTopicColumnNames = array('Topic Name', 'Departmental number');
    $availableTopicColumnNamesDb = array('t.topicName', 't.deptNum');
    for($i = 0; $i < count($availableTopicColumnNames); $i++){
        echo "<td align='center'>";
        echo "<a href='javascript:void(availableTopicSortJs(\" $availableTopicColumnNamesDb[$i] \"))' style='text-decoration:none; color:blue;' >";
        echo $availableTopicColumnNames[$i];
        if($availableTopicColumnNamesDb[$i] == $colUm){
            echo "&nbsp;";
            if($direction == "ASC"){
                echo "&#8593";
            }
            else{
                echo "&#8595";
            }
        }
        echo "</a></td>";
    }
}
echo "</tr>";
if(mysql_num_rows($resultTopic) == 0){
    echo "<tr><td colspan='4' align='center'>no records</td></tr>";
}
while($myrow = mysql_fetch_row($resultTopic)){
    echo "<tr>";
    if($subjToEdit == $myrow[0]){
        echo "<td colspan='2' align='center'>***EDITING***</td>";
    }
    else{
        if($myrow[4] == 0){
            echo
href='?direction=$direction&column=$column&action=Topic&action=edit&subjToEdit=$myrow[0]&subjName=$myrow[2]&deptNum=$myrow[3]&subjCurrent=$subjCurrent'>edit</a></td>";
            echo
href='?direction=$direction&column=$column&action=Topic&action=Tab&action=delete&subjToDelete=$myrow[0]&subjName=$myrow[2]&subjCurrent=$subjCurrent'>delete</a></td>";
        }
        else{
            echo "<td align='center'>edit</td>";
            echo "<td align='center'>delete</td>";
        }
    }
    echo "<td>$myrow[2]</td><td>$myrow[3]</td></tr>";
}
echo "</table>";
//display the subject form here...
if($action == 'edit'){
    echo "<form name='topicForm' method='post' action='?action=saveNav&action=submit&subjToEdit=$subjToEdit'
onSubmit='return topicFormCheck(this)' >";
    echo "<table border='1' >";
    echo "<tr><td colspan='2' align='center'>Edit Topic</td></tr>";
    echo "<tr><td>Topic Name</td>";
    echo "<td><input type='text' name='subjName' value=' $subjName' ></td></tr>";
    echo "<tr><td>Topic Description</td>";
    //echo "<td><textarea name='subjDescription' rows='3' cols='36' >$subjDescription</td></tr>";
    echo "<td>";
    $deptNumString = array("first departmental", "second departmental", "third departmental", "fourth departmental", "fifth departmental",
"sixth departmental", "seventh departmental");
    echo "<select name='deptNum' >";
    for($i = 0; $i < count($deptNumString); $i++){
        if($deptNumString[$i] == $deptNum){
            echo "<option selected='selected' value=' $deptNumString[$i]' >$deptNumString[$i] </option>";
        }
        else{
            echo "<option value=' $deptNumString[$i]' >$deptNumString[$i] </option>";
        }
    }
    echo "</select>";
}
}
}

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    }
    echo ">EDIT THIS QUESTION</a></td>";
    echo "<td align='center' ><a href='?acti veNav=&acti veNav&acti veTab=Add Question' >NEW QUESTION</a></td>";
    echo "</tr>";
    echo "</table>";
}
else if(($acti on == 'create questi on')&&($upl oadFil e == 'upl oad templ ate')&&($hasLogge dIn == 1)){
    $upl oadTempl ateSuccessf ul = true;
    if((isset ($st upl oad))&&($hasLogge dIn == 1)){
        if($st upl oad[0] == "none"){
            echo "error: the $questi on_i d. doc fil e was not upl oaded.<BR><BR>";
            $upl oadTempl ateSuccessf ul = false;
        }
        if($st upl oad[1] == "none"){
            echo "error: the $questi on_i d. htm fil e was not upl oaded.<BR><BR>";
            $upl oadTempl ateSuccessf ul = false;
        }
        if($upl oadTempl ateSuccessf ul){
            echo "<span styl e=' font-si ze: 75%; '>";
            echo "The error above is probably caused by one of the following: ";
            echo "<ol>";
            echo "<li>The 'c:\\toes\\' folder is not present in your machine (PC) please create one and save the downloaded question template in
it.</li>";
            echo "<li>The speci fied fil es were not saved in the 'c:\\toes\\' folder. Download the question template again and save it in 'c:\\toes\\'
folder.</li>";
            echo "<li>The internet connection failed while the fil es were being upl oaded. Please reupl oad the fil es.</li>";
            echo "</ol>";
            echo "</span>";
            echo "<a href='?questi onE dI tFromBrowse=$questi on_i d&acti veNav=Questi on&acti veTab=E dI t Questi on&di spl ayUp l oadTempl ateTabl e=di spl ay'
styl e=' color: blue; '>PLEASE CL ICK HERE TO E DIT THE FAULTY QUESTI ON</a>";
        }
        if(isset ($st upl oad)&&($hasLogge dIn == 1)&&($upl oadTempl ateSuccessf ul)){
            //echo "<br>You upl oaded the fil e:<br>";
            $upl oadDi r = "C:\n apache\ht docs\toes\fil es";
            $upl oadDi r = $upl oadDi r."\\$sub j Current". "\\$st opicCurrent";
            //echo "<br>$upl oadDi r<br>";
            $upl oadDi r = addslashes($upl oadDi r);
            //echo "<br>$upl oadDi r<br>";
            for($i = 0; $i < count($st upl oad); $i++){
                //print " path: $st upl oad[$i] <br>\n";
                //print " name: $st upl oad_name[$i] <br>\n";
                //print " si ze: $st upl oad_si ze[$i] bytes<br>\n";
                //print " type: $st upl oad_type[$i] <p>\n\n";
                if($srefreshed == 0){
                    copy($st upl oad[$i], "$upl oadDi r/$st upl oad_name[$i]");
                    $web = "$upl oadDi r/$st upl oad_name[$i]";
                }
                else{
                    echo "Coul dn' t Copy. ";
                }
            }
            //reformat the .htm fil e
            //echo "[web] $web ]";
            if($fo = fopen($web, "r")){
                flock($fo, 2);
                //create bak fil e...
                touch($web, "bak");
                if($fb = fopen($web, "bak", "a")){
                    flock($fb, 2);
                    //read orig writ e to bak
                    $st ableFl ag = 0;
                    $st agTabl e = array();
                    $st agTr = array();
                    $st agTd = array();
                    $st agSel ect = array();
                    $st agStyl e = array();
                    $numLi ne = 1;
                    $wri teToFil e = true;
                    while(!feof($fo)){
                        $ori gLi ne = fgets($fo, 1024);
                        $l en = strlen($ori gLi ne);
                        //print "<br>[ $numLi ne][ ".html entiti es($ori gLi ne). " ]";
                        $numLi ne++;
                        $serrortext = array();
                        if(detecti nval i dStr($ori gLi ne, $questi onType)){
                            break;
                        }
                        //note: for better performance...
                        //initially substr_count() was used primarily to implement strong restrictions...
                        //imposing a limited n occurrences of the needle such as 'substr_count($ori gLi ne, "<hr size=") == n'
                        //this is very sympathetic/compatible with ms office 2000's conversion of .doc to .htm...
                        //that is, every element tag (specifi cally table, tr, td etc) is printed alone within each line (n == 1)...
                        //strpos() was used in the proceeding 'search for needle in the haystack' for faster execution and
                        //more flexible .htm (friendlier .htm code for direct .htm encoders...)
                        //however .htm encoding is not advised because at the time of this writing I stick with the default
                        //element tag string CASE making the 'search for needle in the haystack' case-sensitive
                        $speci al Pass = false;
                        if(strpos($ori gLi ne, "</body>") != false){
                            $speci al Pass = true;
                            $wri teToFil e = false;
                        }
                        if((strpos($ori gLi ne, "<hr") != false)||($speci al Pass)){
                            $shrFl ag++;
                            swi tch($shrFl ag){
                                case 1:
                                    // $ori gLi ne = "<span id=' toesSecti on1' ><di v class=Secti on1><di v class=MsoNormal align=center styl e=' text-
align:center' >". $ori gLi ne;
                                    $ori gLi ne = "<span id=' toesSecti on1' ><di v class=Secti on1><di v class=MsoNormal align=center styl e=' text-align:center' >";
                                    break;
                                case 2:
                                    $ori gLi ne = "</span><span id=' toesSecti on2' >". $ori gLi ne;
                                    break;
                                case 3:
                                    $ori gLi ne = "</span><span id=' toesSecti on3' >". $ori gLi ne;
                                    break;
                                case 4:
                                    $ori gLi ne = "</span>";
                                    if($questi onType == 'matchi ng type'){
                                        $ori gLi ne = $ori gLi ne. "<input type=' hidden' name=' matchi ngTypeTagAttri buteCount' val ue=' $st agAttri buteCount' />";
                                    }
                                    $wri te($fb, $ori gLi ne);
                                    break;
                                default :
                                    break;
                            }
                        }
                        if($shrFl ag == 2){
                            //perform speci fic checks for elements found in section 1
                            swi tch($questi onType){
                                case 'mul tipl e choice':
                                    if($st agRadi oCount > 4){
                                        $serrortext[] = "form structure violation: the required number of radio buttons is 4";
                                    }
                                    if($st agTabl eCount != 1){

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        $errorText[] = "main table structure violation: faulty &lt;ttable>&gt; tags in section ". ($hrFlag-1);
    }
    if($tagTrCount != 5){
        $errorText[] = "main table structure violation: incorrect number of rows caused by faulty &lt;ttr>&gt; tags in section
". ($hrFlag-1);
    }
    if($tagTdCount < 4){
        $errorText[] = "main table structure violation: faulty &lt;ttd>&gt; tags in section ". ($hrFlag-1);
    }
    $tagTableCount = 0;
    $tagTrCount = 0;
    $tagTdCount = 0;
    break;
case 'true or false':
    if($tagRadioCount > 2){
        $errorText[] = "form structure violation: the required number of radio buttons is 4";
    }
    if($tagTableCount != 1){
        $errorText[] = "main table structure violation: faulty &lt;ttable>&gt; tags in section ". ($hrFlag-1);
    }
    if($tagTrCount != 3){
        $errorText[] = "main table structure violation: incorrect number of rows caused by faulty &lt;ttr>&gt; tags in section
". ($hrFlag-1);
    }
    if($tagTdCount < 3){
        $errorText[] = "main table structure violation: faulty &lt;ttd>&gt; tags in section ". ($hrFlag-1);
    }
    $tagTableCount = 0;
    $tagTrCount = 0;
    $tagTdCount = 0;
    break;
case 'matching type':
    //check number of dropdown (i items)
    if(!($tagSelectCount > 0)){
        $errorText[] = "form structure violation: please supply atleast 1 item";
    }
    if(!($tagTrCount >= $tagSelectCount)){
        $errorText[] = "form structure violation: the number of attributes should be equal or greater than the number of items";
    }
    if($tagTableCount != 2){
        $errorText[] = "main table structure violation: faulty &lt;ttable>&gt; tags in section ". ($hrFlag-1);
    }
    $tagTableCount = 0;
    $tagTrCount = 0;
    $tagTdCount = 0;
    break;
//apply checks on essay and problem solving...
default:
    if($tagTableCount != 1){
        $errorText[] = "main table structure violation: faulty &lt;ttable>&gt; tags in section ". ($hrFlag-1);
    }
    if($tagTrCount != 1){
        $errorText[] = "main table structure violation: incorrect number of rows caused by faulty &lt;ttr>&gt; tags in section
". ($hrFlag-1);
    }
    if($tagTdCount != 1){
        $errorText[] = "main table structure violation: faulty &lt;ttd>&gt; tags in section ". ($hrFlag-1);
    }
    $tagTableCount = 0;
    $tagTrCount = 0;
    $tagTdCount = 0;
    break;
}
}
if(($hrFlag == 3)||($hrFlag == 4)){
    //perform specific checks for elements found in section 2 and 3
    if($tagTableCount != 1){
        $errorText[] = "main table structure violation: faulty &lt;ttable>&gt; tags in section ". ($hrFlag-1);
    }
    if($tagTrCount != 1){
        $errorText[] = "main table structure violation: incorrect number of rows caused by faulty &lt;ttr>&gt; tags in section
". ($hrFlag-1);
    }
    if($tagTdCount != 1){
        $errorText[] = "main table structure violation: faulty &lt;ttd>&gt; tags in section ". ($hrFlag-1);
    }
    if($hrFlag == 3){
        $tagTableCount = 0;
        $tagTrCount = 0;
        $tagTdCount = 0;
    }
    //perform specific checks for elements found in section 3
    if($hrFlag == 4){
        switch($questionType){
            case 'multiple choice':
                $answerString = strtolower($answerString);
                if(!(($answerString == 'a')||($answerString == 'b')||($answerString == 'c')||($answerString == 'd'))){
                    $errorText[] = "answer string violation: invalid answer string please use 'A B C or D';";
                }
                break;
            case 'true or false':
                $answerString = strtolower($answerString);
                if(!(($answerString == 'true')||($answerString == 'false'))){
                    $errorText[] = "answer string violation: invalid answer string please use 'TRUE' or 'FALSE' ";
                }
                break;
            case 'matching type':
                $answerString = strtolower($answerString);
                $answerStringArray = explode(" ", $answerString);
                if(count($answerStringArray) != $tagSelectCount){
                    $errorText[] = "answer string violation: the number of attribute identifiers in the answer sequence does not match the
number of items";
                }
                else{
                    foreach($answerStringArray AS $answerStringArrayElem){
                        if(ereg("[0-9]+",$answerStringArrayElem)){
                            if(!((0 < intval($answerStringArrayElem)&&(intval($answerStringArrayElem) <= $tagAttributeCount))){
                                $errorText[] = "answer string violation: invalid attribute identifier '$answerStringArrayElem' please use numbers
from 1 to $tagAttributeCount";
                            }
                        }
                        else{
                            $errorText[] = "answer string violation: invalid attribute identifier '$answerStringArrayElem' please use numbers";
                        }
                    }
                }
                break;
            default:
                break;
        }
    }
}
}
if(count($errorText) > 0){
    break;
}
}
//fill the stack with push operations
if(strpos($origLine, "<style>") != false){
    array_push($tagStyle, "<style>");
}

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}
if(strpos($origLine, "<table") !== false){
    array_push($tagTable, "<table>");
}
if(strpos($origLine, "<tr") !== false){
    array_push($tagTr, "<tr>");
}
if(strpos($origLine, "<td") !== false){
    array_push($tagTd, "<td>");
}
//empty the stacks with pop operations
if(strpos($origLine, "</td") !== false){
    if(count($tagTd) > 0){
        array_pop($tagTd);
        if(count($tagTd) == 0){
            $tagTdCount++;
        }
    }
}
if(strpos($origLine, "</tr") !== false){
    if(count($tagTr) > 0){
        array_pop($tagTr);
        if(count($tagTr) == 0){
            $tagTrCount++;
        }
    }
}
if(strpos($origLine, "</table") !== false){
    if(count($tagTable) > 0){
        array_pop($tagTable);
        if(count($tagTable) == 0){
            $tagTableCount++;
        }
    }
}
if(strpos($origLine, "</style") !== false){
    if(count($tagStyle) > 0){
        array_pop($tagStyle);
        if(count($tagStyle) == 0){
            fwrite($fb, $origLine);
            $tagStyleCount++;
        }
    }
}
if(count($tagStyle) == 1){
    fwrite($fb, $origLine);
}
switch($hrFlag){
    //first section
    case 1:
        //perform search for specific tags for each question type...
        switch($questionType){
            case 'multiple choice':
                if(strpos($origLine, "<INPUT TYPE=\"RADIO\"") !== false){
                    $tagRadioCount++;
                    $choiceArray = array('a', 'b', 'c', 'd');
                    $additionalAttribute = "name='multipleChoiceRadio' value='{$choiceArray[$tagRadioCount]} ";
                    $searchString = "<INPUT ";
                    $origLine = substr($origLine, 0, strpos($origLine, $searchString) + strlen($searchString));
                    $additionalAttribute = substr($origLine, strpos($origLine, $searchString) + strlen($searchString));
                    break;
                }
                case 'true or false':
                    if(strpos($origLine, "<INPUT TYPE=\"RADIO\"") !== false){
                        $tagRadioCount++;
                        $choiceArray = array('true', 'false');
                        $additionalAttribute = "name='trueOrFalseRadio' value='{$choiceArray[$tagRadioCount]} ";
                        $searchString = "<INPUT ";
                        $origLine = substr($origLine, 0, strpos($origLine, $searchString) + strlen($searchString));
                        $additionalAttribute = substr($origLine, strpos($origLine, $searchString) + strlen($searchString));
                        break;
                    }
                case 'matching type':
                    if(strpos($origLine, "<SELECT") !== false){
                        $additionalAttribute = "name='matchingTypeSelect' ";
                        $searchString = "<SELECT";
                        $origLine = substr($origLine, 0, strpos($origLine, $searchString) + strlen($searchString));
                        $additionalAttribute = substr($origLine, strpos($origLine, $searchString) + strlen($searchString));
                        array_push($tagSelect, "<SELECT>");
                    }
                    if(strpos($origLine, "</SELECT>") !== false){
                        if(count($tagSelect) > 0){
                            array_pop($tagSelect);
                            if(count($tagSelect) == 0){
                                $tagSelectCount++;
                            }
                        }
                    }
                }
            //count the attribute for the items found above
            if(($tagTableCount == 1)&&(strpos($origLine, "</table") !== false)){
                $tagTrCount = 0;
                $tagTdCount = 0;
            }
            if(($tagTableCount == 1)&&(count($tagTable) == 1)){
                $tagAttributeCount = $tagTrCount;
            }
            break;
            case 'essay':
                break;
            case 'problem solving':
                break;
            default:
                break;
        }
    }
    break;
    //second section
    case 2:
        break;
    //third section getting the answer string
    case 3:
        switch($questionType){
            case 'multiple choice':
                if(ereg(">answer="(.*)"<", $origLine, $answerArray)){
                    $answerString = $answerArray[1];
                }
                break;
            case 'true or false':
                if(ereg(">answer="(.*)"<", $origLine, $answerArray)){
                    $answerString = $answerArray[1];
                }
                break;
            case 'matching type':
                if(ereg(">answer="(.*)"<", $origLine, $answerArray)){
                    $answerString = $answerArray[1];
                }
                break;
            case 'essay':
                break;
            case 'problem solving':
                break;
        }
    }
}

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        break;
    default:
        break;
    }
    break;
    default:
        break;
}
if((strpos($origLine, "</html>") !== false)&&($hrFlag != 4)){
    $errorText[] = "section structure violation: invalid number of sections found";
}
if($hrFlag > 0){
    //file attachments from _files detected...
    if(strpos($origLine, "src=\"") !== false){
        $folderName = $tupload_name[1];
        $folderName = str_replace("htm", "_files", $folderName);
        //print "foldername: [$folderName]";
        if(!is_dir("$suploadDir/$folderName")){
            mkdir("$suploadDir/$folderName", 0777);
        }
        $first = strpos($origLine, $folderName);
        $first = strpos($origLine, '/', $first);
        $last = strpos($origLine, '"', $first);
        $str = substr($origLine, $first+1, $last-$first-1);
        $extraFile[] = $str;
        //echo "[first][$last][$str]";
        $srcDir = "http://localhost/toes/files/" . $subjCurrent . "/" . $topicCurrent . "/";
        $origLine = str_replace($folderName, $str, $srcDir . $folderName . "/" . $str, $origLine);
    }
    //<file></file> detected
    if(ereg('&lt;FILE&gt;(.*)&lt;/FILE&gt;', $origLine, $fileArray)){
        connect_Db();
        $queryF = "SELECT src FROM file WHERE file_id=' $fileArray[1]' AND question_id=' $question_id' ";
        $resultF = mysql_query($queryF);
        if(mysql_num_rows($resultF) == 0){
            $errorText[] = "embedded file violation: the file id '$fileArray[1]' does not exist, please upload the file first ";
            break;
        }
    }
    if($writeToFile){
        fwrite($fb, $origLine);
    }
}
fclose($fb, 3);
fclose($fb);
}
fclose($fo, 3);
fclose($fo);
}
//delete orig
//rename bak
unlink("$suploadDir/$tupload_name[1]");
copy($web, "bak");
unlink("$suploadDir/$tupload_name[1]");
unlink($web, "bak");

if(count($errorText) > 0){
    //display errors found in the file
    for($i = 0; $i < count($errorText); $i++){
        echo "<br>error ". ($i+1). ". ". $errorText[$i];
    }
}
//display recommendations
//display conventions for questions ($questionType)
echo "<br><a href='?questionIdFromBrowse=$question_id&activeNav=Question&activeTab=Edit_Question' style='color:blue;'>PLEASE CLICK HERE TO EDIT THE FAULTY QUESTION</a>";
}
else{
    //upload answer string for question table...
    connect_Db();
    $query = "UPDATE question SET answer=' $answerString' WHERE question_id=' $question_id' ";
    $result = mysql_query($query);
    //display upload form for the extra files...
    if(count($extraFile) > 0){
        echo "<br><br>";
        echo "<form name='clientUpload' enctype='multipart/form-data' action='?activeNav=Question&activeTab=Submit_Question&createQuestion' method='POST' onSubmit='return check_File(13)'>";
        $time = time();
        //time++;
        echo "<input type='hidden' name='code' value=' $time' />";
        echo "<input type='hidden' name='question_id' value=' $question_id' />";
        echo "<input type='hidden' name='subjCurrent' value=' $subjCurrent' />";
        echo "<input type='hidden' name='subjName' value=' $subjName' />";
        echo "<input type='hidden' name='topicCurrent' value=' $topicCurrent' />";
        echo "<input type='hidden' name='topicName' value=' $topicName' />";
        echo "<input type='hidden' name='author' value=' $author' />";
        echo "<input type='hidden' name='questionType' value=' $questionType' />";
        echo "<input type='hidden' name='difficulty' value=' $difficulty' />";
        echo "<input type='hidden' name='numVisits' value=' $numVisits' />";
        echo "<input type='hidden' name='folderName' value=' $folderName' />";
        echo "<input type='hidden' name='web' value=' $web' />";
        echo "<input type='hidden' name='MAX_FILE_SIZE' value=' 36700160' />";
        echo "<table border='1'><tr>";
        $index = 1;
        for($i = 0; $i < count($extraFile); $i++){
            $templateA = 'c:\\toes\\' . $folderName . '\\ ' . $extraFile[$i];
            echo "<tr>";
            echo "<td><input name='myText' value=' $templateA' readonly='readonly' /></td>";
            echo "<td><input type='button' TYPE='BUTTON' onClick='insert_ToUploadFile($index)' VALUE='click here then ctrl-V' /></td>";
            echo "<td><input type='file' name='tupload[' . $index . ']' /></td>";
            echo "</tr>";
            $index = $index + 3;
        }
        echo "<tr><td colspan='3' align='center'><input type='submit' name='uploadFile' value='upload extraFile' /><button type='reset' name='reset' value='reset'>reset</button>";
        echo "</td></tr></table>";
        echo "</form>";
    }
    else{
        //question preview
        echo "<table align='center' width='100%' height='100%'>";
        //display button for preview...
        echo "<tr><td colspan='2' align='center'>";
        echo "<button onClick='javascript:window.open(\"http://localhost/toes/exam/questionnaire.php?operatiOnMode=previ ewquestiOn&questionIdToDisplay=$question_id\", \"\", \"fullScreen, scrollbars\")>preview this question</button>";
        //echo "<button onClick='newWindowOpener(\"http://localhost/toes/exam/questionnaire.php?operatiOnMode=previ ewquestiOn&questionIdToDisplay=$question_id\")>preview this question</button>";
        echo "</td></tr>";
        echo "<tr><td colspan='2' align='center'>";
        //echo "[ $web ]";
        include($web);
        echo "</td></tr>";
        //display options 'edit this question' or 'create another question'
        echo "<tr>";
        echo "<td align='center'><a href='?questionIdFromBrowse=$question_id&activeNav=Question&activeTab=Edit_Question'>EDIT THIS QUESTION</a></td>";
        echo "<td align='center'><a href='?activeNav=SubmitNav&activeTab=Add_Question'>NEW QUESTION</a></td>";
        echo "</tr>";
    }
}
}

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    }
}
elseif($action == 'create question'){
    if($numVisits == 0){
        //get subjName and topicName
        connect_Db();
        $query = "SELECT subjName FROM subject WHERE subject_id='$subjCurrent' ";
        $result = mysql_query($query);
        $myrow = mysql_fetch_row($result);
        $subjName = $myrow[0];
        $query = "SELECT topicName FROM topic WHERE topic_id='$topicCurrent' ";
        $result = mysql_query($query);
        $myrow = mysql_fetch_row($result);
        $topicName = $myrow[0];

        //add a new question id...
        if(($refreshed == 0)&&($activeTab == 'Add Question')){
            connect_Db();
            $nextId = get_Next_Id('question_id','question');
            $question_id = $nextId;

            //create the question template as well...copy then rename the default template...
            switch($questionType){
                case 'multiple choice':
                    $origTemplate = 'C:\apache\htdocs\toes\files\templates\c.doc';
                    $templateName = "c.".$question_id;
                    break;
                case 'true or false':
                    $origTemplate = 'C:\apache\htdocs\toes\files\templates\t.doc';
                    $templateName = "t.".$question_id;
                    break;
                case 'matching type':
                    $origTemplate = 'C:\apache\htdocs\toes\files\templates\m.doc';
                    $templateName = "m.".$question_id;
                    break;
                case 'essay':
                    $origTemplate = 'C:\apache\htdocs\toes\files\templates\e.doc';
                    $templateName = "e.".$question_id;
                    break;
                case 'problem solving':
                    $origTemplate = 'C:\apache\htdocs\toes\files\templates\p.doc';
                    $templateName = "p.".$question_id;
                    break;
                default:
                    break;
            }
            $extension = '.doc';
            $uploadDir = 'C:\apache\htdocs\toes\files';
            $uploadDir = $uploadDir."\\$subjCurrent"."\\$topicCurrent";
            $uploadDir = addslashes($uploadDir);
            copy($origTemplate, $uploadDir.$templateName.$extension);

            $srclnclude = 'c:/apache/htdocs/toes/files/' . $subjCurrent . '/' . $topicCurrent . '/' . $templateName;
            $query = "INSERT INTO question (question_id, topic_id, question_type, objects, author, difficulty) VALUES ('$question_id', '$topicCurrent', '$question_type', '$srclnclude', '$author', '$difficulty') ";
            $result = mysql_query($query);
            $numVisits++;
        }
        echo "<table border='1' >";
        echo "<tr><td colspan='2' align='center'>Question Properties</td></tr>";
        echo "<tr><td>Subject name</td><td>$subjName</td></tr>";
        echo "<tr><td>Topic name</td><td>$topicName</td></tr>";
        echo "<tr><td>Author</td><td>$author</td></tr>";
        echo "<tr><td>Question type</td><td>$questionType</td></tr>";
        echo "<tr><td>Difficulty</td><td>$difficulty</td></tr>";
        echo "</table>";

        //delete the file to delete...
        if(isset($fileToDelete)){
            //echo "<br>file to delete: $fileToDelete<br>";
            connect_Db();
            $query = "DELETE FROM file WHERE file_id='$fileToDelete' ";
            $result = mysql_query($query);
            unset($upload);
        }
        //get the uploaded file
        if(isset($upload)&&($hasLoggedin == 1)){
            //echo "<br>You uploaded the file.<br>";
            //print "path: $upload<br>";
            //print "name: $upload_name<br>";
            //print "size: $upload_size bytes<br>";
            //print "type: $upload_type<br>";

            $uploadDir = 'C:\apache\htdocs\toes\files';
            $uploadDir = $uploadDir."\\$subjCurrent"."\\$topicCurrent";
            //echo "<br>$uploadDir<br>";
            $uploadDir = addslashes($uploadDir);
            //echo "<br>$uploadDir<br>";

            //get the file's extension
            $textArray = split("\.", $upload_name);
            $n = count($textArray);
            $n = $n-1;
            $extension = "." . $textArray[$n];
            connect_Db();
            $nextId = get_Next_Id('file_id','file');
            $src = $uploadDir.$nextId.$extension;
            $src = str_replace("\\\\", "\\", $src);
            $src = str_replace("\\", "\\\\", $src);
            //echo "src [$src]";
            if(($refreshed == 0)&&(copy($upload, $uploadDir.$nextId.$extension))){
                $query = "INSERT INTO file (file_id, question_id, type, origfilename, src) VALUES ('$nextId', '$question_id', '$upload_type', '$upload_name', '$src') ";
                $result = mysql_query($query);
            }
            else{
                echo "error: Couldn't Copy.<br><br>";
            }
        }
        //then output the question's files table...
        echo "<br><table border='1' >";
        echo "<tr><td colspan='4' align='center'>Files</td></tr>";
        echo "<tr><td></td><td>file id</td><td>file type</td><td>original filename</td></tr>";
        connect_Db();
        $query = "SELECT file_id, type, origfilename FROM file WHERE question_id='question_id' ";
        $result = mysql_query($query);
        if(mysql_num_rows($result) == 0){
            echo "<tr><td colspan='4' align='center'>no records</td></tr>";
        }
        while($myrow = mysql_fetch_row($result)){
            echo "<tr><td><a href='?'>";
            foreach($GLOBALS as $key=>$value){
                if (ereg("[a-z]", $key[0], $array) ){
                    echo "$key=$value". "&";
                }
            }
        }
    }
}

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    echo "fileToDelete=$myrow[0]>delete</a>";
    echo "</td><td>$myrow[0]</td><td>$myrow[1]</td><td>$myrow[2]</td></tr>";
}
echo "<tr><td colspan='4' align='center'>";
echo "<form name='questionFilesForm' enctype='multipart/form-data' action='?action=Question&activeTab=SactiveTab&action=create_question'
method='POST' onSubmit='return questionFilesJs(this)'>";
$time = time();
//$time++;
echo "<input type='hidden' name='code' value='$time' />";
echo "<input type='hidden' name='question_id' value='$question_id' />";
echo "<input type='hidden' name='subjCurrent' value='$subjCurrent' />";
echo "<input type='hidden' name='subjName' value='$subjName'>";
echo "<input type='hidden' name='topicCurrent' value='$topicCurrent' />";
echo "<input type='hidden' name='topicName' value='$topicName' />";
echo "<input type='hidden' name='author' value='$author'>";
echo "<input type='hidden' name='questionType' value='$questionType' />";
echo "<input type='hidden' name='difficulty' value='$difficulty' />";
echo "<input type='hidden' name='numVisits' value='$numVisits' />";
echo "<input type='hidden' name='MAX_FILE_SIZE' value='36700160' />";
if(isset($questionEditFromBrowse)){
    echo "<input type='hidden' name='questionEditFromBrowse' value='$questionEditFromBrowse' />";
}
echo "<input type='file' name='upload' /><br>";
echo "</td></tr>";
echo "<tr><td colspan='4' align='center'><input type='submit' name='uploadFile' value='upload file' />";
echo "<button type='reset' name='reset' value='reset'>reset</button>";
echo "</td></tr>";
echo "</form></table>";

//display link to the question template
echo "<br>Warning! Please save this template in the toes folder '\\toes\\' ";
switch($questionType){
    case 'multiple choice':
        $templateName = "c"."$question_id";
        break;
    case 'true or false':
        $templateName = "t"."$question_id";
        break;
    case 'matching type':
        $templateName = "m"."$question_id";
        break;
    case 'essay':
        $templateName = "e"."$question_id";
        break;
    case 'problem solving':
        $templateName = "p"."$question_id";
        break;
    default:
        break;
}
$templateName = $templateName.'.doc';
$sourceDir = './toes/files';
$sourceDir = $sourceDir."/".$subjCurrent."/".$topicCurrent/".$templateName;
echo "<br><a href='$sourceDir' target='_BLANK' style='color:blue;' onClick='showUploadTemplateForm()'>click here to download the question
template</a>";

//display upload form for the edited question template...
echo "<br><br>";
echo "<form name='clientUpload' enctype='multipart/form-data' action='?action=Question&activeTab=SactiveTab&action=create_question'
method='POST' onSubmit='return checkFile(1)''>";
$time = time();
//$time++;
echo "<input type='hidden' name='code' value='$time' />";
echo "<input type='hidden' name='question_id' value='$question_id' />";
echo "<input type='hidden' name='subjCurrent' value='$subjCurrent' />";
echo "<input type='hidden' name='subjName' value='$subjName'>";
echo "<input type='hidden' name='topicCurrent' value='$topicCurrent' />";
echo "<input type='hidden' name='topicName' value='$topicName' />";
echo "<input type='hidden' name='author' value='$author'>";
echo "<input type='hidden' name='questionType' value='$questionType' />";
echo "<input type='hidden' name='difficulty' value='$difficulty' />";
echo "<input type='hidden' name='numVisits' value='$numVisits' />";
echo "<input type='hidden' name='MAX_FILE_SIZE' value='36700160' />";
$uploadTemplateTableStyleDisplay = "style='display:none'";
if($displayUploadTemplateTable == "display"){
    $uploadTemplateTableStyleDisplay = "display";
}
echo "<table id='uploadTemplateTable' border='1' $uploadTemplateTableStyleDisplay><tr>";
$templateA = "c:\\toes\\.". $templateName;
echo "<td><input name='myText0' value='$templateA' readonly='readonly' /></td>";
echo "<td><input name='button0' type='button' value='insert_To_UploadFile(1)'' VALUE='click here then ctrl-V' /></td>";
echo "</tr><tr>";
$templateA = str_replace('.doc', '.htm', $templateA);
echo "<td><input name='myText1' value='$templateA' readonly='readonly' /></td>";
echo "<td><input name='button1' type='button' value='insert_To_UploadFile(14)'' VALUE='click here then ctrl-V' /></td>";
echo "</tr><tr><td colspan='3' align='center'>";
echo "<input type='submit' name='uploadFile' value='upload template' /><button type='reset' name='reset' value='reset'>reset</button>";
echo "</td></tr></table>";
echo "</form>";
}
else{
    echo "<table border='1'>";
    echo "<tr>";
    echo "<td>Select Subject</td>";
    echo "<td>";
    echo "<form name='loginForm' method='post' action='?action=Question&activeTab=SactiveTab' style='display:inline'>";
    echo "<select name='subjCurrent' onChange='this.form.submit()'>";
    connect_Db();
    $query = "SELECT subject_id, subjectName FROM subject ORDER BY subjectName ASC ";
    $result = mysql_query($query);
    if(($subjCurrent == '') || ($subjCurrent == 'Select')){
        echo "<option selected='selected' value='Select'>Please Select</option>";
    }
    while($myrow = mysql_fetch_row($result)){
        echo "<option>";
        if($myrow[0] == $subjCurrent){
            echo " selected='selected' ";
        }
        echo " value='$myrow[0]' label='$myrow[1]'>$myrow[1]</option>";
    }
    echo "</select>";
    //echo "<input type='submit' name='chooseSubj' value='go' />";
    echo "</form>";
    echo "</td></tr>";
    echo "<tr>";
    echo "<td>Select Topic:</td>";
    echo "<td>";
    echo "<form name='addQuestionForm' method='post' action='?action=Question&activeTab=SactiveTab' onSubmit='return addQuestionJs(this)'>";
    echo "<select name='topicCurrent'>";
    connect_Db();
    $query = "SELECT topic_id, topicName, CASE deptNum WHEN 'first departmental' THEN 1 WHEN 'second departmental' THEN 2 WHEN 'third
departmental' THEN 3 WHEN 'fourth departmental' THEN 4 WHEN 'fifth departmental' THEN 5 WHEN 'sixth departmental' THEN 6 WHEN 'seventh
departmental' THEN 7 END AS deptNumnt FROM topic WHERE subject_id='$subjCurrent' ORDER BY deptNumnt ASC, topicName ASC";
    // $query = "SELECT topic_id, topicName FROM topic WHERE subject_id='$subjCurrent' ORDER BY topicName ASC ";
    $result = mysql_query($query);

```

```

if(($subjCurrent == '')) {
    echo "<option selected='selected' value='Select'>Please select the subject</option>";
}
elseif(mysql_num_rows($result) == 0) {
    echo "<option selected='selected' value='Select'>The selected subject has no topics</option>";
}
elseif(($topicCurrent == '')) {
    echo "<option selected='selected' value='Select'>Please Select</option>";
}
}

while($myrow = mysql_fetch_row($result)) {
    echo "<option>";
    if($myrow[0] == $topicCurrent) {
        echo " selected='selected' ";
    }
    echo " value=' $myrow[0]' label=' $myrow[1]'> $myrow[2] $myrow[1]</option>";
}
echo "</select>";
echo "</td>";
$time = time();
//Time+;
echo "<input type='hidden' name='code' value=' $time' />";
echo "<input type='hidden' name='numVisits' value=' 0' />";
echo "<input type='hidden' name='subjCurrent' value=' $subjCurrent' />";
if(($subjCurrent != '')) {
    echo "<tr><td>Author</td>";
    echo "<td><input type='text' name='author' /></td></tr>";
    echo "<tr><td>Question Type</td><td>";
    if($questionType == "") {
        $questionType = 'true or false';
    }
    echo "<input type='radio' name='questionType' value='true or false' ";
    if($questionType == 'true or false') {
        echo "checked='checked' ";
    }
    echo "/>true or false";
}
echo "<br><input type='radio' name='questionType' value='multiple choice' ";
if($questionType == 'multiple choice') {
    echo "checked='checked' ";
}
echo "/>multiple choice";

echo "<br><input type='radio' name='questionType' value='matching type' ";
if($questionType == 'matching type') {
    echo "checked='checked' ";
}
echo "/>matching type";
echo "</td></tr><tr><td>Difficulty</td><td>";
if($difficulty == "") {
    $difficulty = 'very easy';
}
echo "<input type='radio' name='difficulty' value='very easy' ";
if($difficulty == 'very easy') {
    echo "checked='checked' ";
}
echo "/>very easy";
echo "<br><input type='radio' name='difficulty' value='easy' ";
if($difficulty == 'easy') {
    echo "checked='checked' ";
}
echo "/>easy";
echo "<br><input type='radio' name='difficulty' value='medium' ";
if($difficulty == 'medium') {
    echo "checked='checked' ";
}
echo "/>medium";
echo "<br><input type='radio' name='difficulty' value='hard' ";
if($difficulty == 'hard') {
    echo "checked='checked' ";
}
echo "/>hard";
echo "<br><input type='radio' name='difficulty' value='very hard' ";
if($difficulty == 'very hard') {
    echo "checked='checked' ";
}
echo "/>very hard";
echo "<td></tr><tr><td colspan='2' align='center'><input type='submit' name='action' value='create question' /></td></tr>";
}
echo "</form>";
}
echo "</table>";
}
////////////////////////////////////
function questionQuery() {
    foreach($GLOBALS as $key=>$value) {
        //print "$GLOBALS[$key] = $value<br>";
        if (ereg("[a-z]", $key[0], $array)) {
            //print "\$GLOBALS['$key'] = $value<br>";
            global $$key;
        }
    }
}
if($redirectedFromEdit == 'yes') {
    echo "Please choose the question to be edited<br>";
}
if($questionToDelete != '') {
    connect_Db();
    $query = "SELECT exam_id FROM exam_item WHERE question_id=' $questionToDelete' LIMIT 1 ";
    $result = mysql_query($query);
    if(mysql_num_rows($result) == 0) {
        $query = "SELECT objects FROM question WHERE question_id=' $questionToDelete' ";
        $result = mysql_query($query);
        $myrow = mysql_fetch_row($result);
        $fileLink = $myrow[0];
        if(file_exists($fileLink, ".doc")) {
            unlink($fileLink, ".doc");
        }
        if(file_exists($fileLink, ".htm")) {
            unlink($fileLink, ".htm");
        }
        $fileLink = $fileLink."_files";
        if(is_dir($fileLink)) {
            $dh = opendir($fileLink);
            while(gettype($file = readdir($dh)) != boolean) {
                if(is_file($fileLink.'\\'.$file)) {
                    //echo "$file";
                    unlink($fileLink.'\\'.$file);
                }
            }
            closedir($dh);
            rmdir($fileLink);
        }
        //delete the linked multimedia files...
        $query = "SELECT src FROM file WHERE question_id=' $questionToDelete' ";
        $result = mysql_query($query);
    }
}

```

```

while($myrow = mysql_fetch_row($result)){
    unlink($myrow[0]);
}
$query = "DELETE FROM file WHERE question_id= '$questionToDelete' ";
$result = mysql_query($query);
$query = "DELETE FROM question WHERE question_id= '$questionToDelete' ";
$result = mysql_query($query);
echo "message: Question id [$questionToDelete] was deleted.<br><br>";
$questionToDelete = '';
}
else{
    echo "error: the system detected EXAMS related to the QUESTION therefore it CAN'T be DELETED.<br><br>";
    $questionToDelete = '';
}
}
//display the query filters...
echo "Please use the following filters:";
echo "<form name='questionQuery' action='?activeNav=Question&activeTab=activeTab' method='POST' style='display:inline';>";
echo "<table border='1' >";
echo "<tr><td colspan='2' align='center'>Question Search Filters</td></tr>";
echo "<tr><td>Subject</td><td>";
connect_Db();
$query = "SELECT subject_id, subjectName FROM subject";
$result = mysql_query($query);
echo "<input type='hidden' name='hSubject' value='\$Subject' >";
echo "<select name='\$Subject' onChange='this.form.submit()' >";
echo "<option value='any'>any</option>";
while($myrow = mysql_fetch_row($result)){
    echo "<option value='\$myrow[0]'> \$myrow[1]</option>";
}
echo "</select>";
echo "</td></tr>";
echo "<tr><td>Topic</td><td>";
echo "<input type='hidden' name='hTopic' value='\$Topic' >";
$query = "SELECT topic_id, topicName, CASE deptNum WHEN 'first departmental' THEN 1 WHEN 'second departmental' THEN 2 WHEN 'third
departmental' THEN 3 WHEN 'fourth departmental' THEN 4 WHEN 'fifth departmental' THEN 5 WHEN 'sixth departmental' THEN 6 WHEN 'seventh
departmental' THEN 7 END AS deptNum FROM topic WHERE subject_id= '$Subject' ORDER BY deptNum ASC, topicName ASC";
//$query = "SELECT topic_id, topicName FROM topic WHERE subject_id= '$Subject' ";
$result = mysql_query($query);
echo "<select name='qTopic' >";
if($Subject == 'any'){
    $Topic = 'any';
    echo "<option value='any'>any</option>";
}
else if(mysql_num_rows($result) == 0){
    $filter = 'subject chosen has no topics';
    echo "<option value='subject chosen has no topics'>subject chosen has no topics</option>";
}
else{
    if($Topic == 'subject chosen has no topics'){
        $Topic = 'any';
    }
    echo "<option value='any'>any</option>";
    while($myrow = mysql_fetch_row($result)){
        echo "<option value='\$myrow[0]'> \$myrow[1]</option>";
    }
}
echo "</select>";
echo "</td></tr>";
echo "<tr><td>Question Type</td><td>";
echo "<input type='hidden' name='hQuestionType' value='\$QuestionType' >";
echo "<select name='\$QuestionType' >";
echo "<option value='any'>any</option>";
echo "<option value='true or false'>true or false</option>";
echo "<option value='multiple choice'>multiple choice</option>";
echo "<option value='matching type'>matching type</option>";
//echo "<option value='essay'>essay</option>";
//echo "<option value='problem solving'>problem solving</option>";
echo "</select>";
echo "</td></tr>";
echo "<tr><td>Difficulty</td><td>";
echo "<input type='hidden' name='hDifficulty' value='\$Difficulty' >";
echo "<select name='qDifficulty' >";
echo "<option value='any'>any</option>";
echo "<option value='very easy'>very easy</option>";
echo "<option value='easy'>easy</option>";
echo "<option value='medium'>medium</option>";
echo "<option value='hard'>hard</option>";
echo "<option value='very hard'>very hard</option>";
echo "</select>";
echo "</td></tr>";
echo "<tr><td>Sorted By</td><td>";
echo "<input type='hidden' name='hSortedBy' value='\$SortedBy' >";
echo "<select name='qSortedBy' >";
echo "<option value='Question Id'>Question Id</option>";
echo "<option value='Topic Name'>Topic Name</option>";
echo "<option value='Question Type'>Question Type</option>";
echo "<option value='Author'>Author</option>";
echo "<option value='Difficulty'>Difficulty</option>";
echo "</select>";
echo "</td></tr>";
echo "<tr><td rowspan='2'>Direction</td><td>";
echo "<input type='hidden' name='hDirection' value='\$Direction' >";
echo "<input type='radio' name='qDirection' value='ascending' checked='checked'>ascending";
echo "</td></tr>";
echo "<td><input type='radio' name='qDirection' value='descending'>descending</td></tr>";
echo "<tr><td>Display</td><td>";
echo "<input type='hidden' name='hNumResults' value='\$NumResults' >";
echo "<select name='qNumResults' >";
echo "<option value='10'>10</option>";
echo "<option value='20'>20</option>";
echo "<option value='30'>30</option>";
echo "<option value='40'>40</option>";
echo "<option value='50'>50</option>";
echo "</select> per page";
echo "</td></tr>";
echo "<tr><td colspan='2' align='center'><input type='submit' name='filter' value='search'><button type='reset' name='reset'
value='reset'>reset</button></td></tr>";
echo "</form>";
echo "</table>";
}
if($filter == 'search'){
    if(($Topic == 'any') && ($QuestionType == 'any') && ($Difficulty == 'any')){
        $queryString = "SELECT question.question_id, subject.subjectName, topic.topicName, question.questionType, question.objects,
question.author, question.difficulty, COUNT(exam_item.exam_id) FROM question LEFT JOIN exam_item ON
(question.question_id=exam_item.question_id), subject, topic WHERE question.topic_id=topic.topic_id AND subject.subject_id=topic.subject_id";
    }
    else{
        $queryString = "SELECT question.question_id, subject.subjectName, topic.topicName, question.questionType, question.objects,
question.author, question.difficulty, COUNT(exam_item.exam_id) FROM question LEFT JOIN exam_item ON
(question.question_id=exam_item.question_id), subject, topic WHERE question.topic_id=topic.topic_id AND subject.subject_id=topic.subject_id";
        if(($Topic != 'any') && ($Topic != "")){
            $wherePart[] = "question.topic_id= '$Topic' ";
        }
        if(($QuestionType != 'any') && ($QuestionType != "")){
            $wherePart[] = "question.questionType= '$QuestionType' ";
        }
    }
}

```



```

    }
    else{
        echo "faculty:<br>";
        $queryA = "SELECT departmentName FROM upm_departments WHERE department_id=' $myrow[7] ' ";
    }
    $resultA = mysql_query($queryA);
    $myrowA = mysql_fetch_row($resultA);
    echo "$myrowA[0]";
    echo "</td>";
    echo "<td>";
    foreach(explode(" ", $myrow[2]) AS $topicArrayElem){
        $queryA = "SELECT topicName FROM topic WHERE topic_id=' $topicArrayElem ' ";
        $resultA = mysql_query($queryA);
        $myrowA = mysql_fetch_row($resultA);
        echo "$myrowA[0]<br>";
    }
    echo "</td>";
    echo "</tr>";
}
echo "</form>";
echo "</table>";
echo "</div>";
}
else{
    echo "<table width='100%'>";
    echo "<tr><td align='center'>no records</td></tr>";
    echo "</table>";
}
}
////////////////////////////////////
function reformatDateForDisplay($date){
    $dateArray = explode("-", $date);
    $dateUnix = mktime("0", "0", $dateArray[1], $dateArray[2], $dateArray[0]);
    return date("l F j, Y", $dateUnix);
}
////////////////////////////////////
function reformatTimeForDisplay($time){
    $timeArray = explode("-", $time);
    $index = 0;
    foreach($timeArray AS $timeArrayElem){
        //filter seconds if it exists...
        if(strlen($timeArrayElem) == 8){
            $s = " ".substr($timeArrayElem, 6);
            $timeArrayElem = substr($timeArrayElem, 0, 5);
        }
        $timeExt = "AM";
        $timeArrayElemArray = explode(":", $timeArrayElem);
        if(substr($timeArrayElemArray[0], 0, 1) == "0"){
            $timeArrayElemArray[0] = substr($timeArrayElemArray[0], 1, 1);
        }
        if($timeArrayElemArray[0] > 11){
            $timeExt = 'PM';
        }
        if($timeArrayElemArray[0] > 12){
            $timeArrayElemArray[0] = $timeArrayElemArray[0] - 12;
        }
        $timeArray[$index] = implode(":", $timeArrayElemArray)."$s ".$timeExt;
        $index++;
    }
    return implode("-", $timeArray);
}
////////////////////////////////////
function manage_Tutorial_Attendance(){
    foreach($GLOBALS as $key=>$value){
        if (ereg("[a-z]", $key[0], $array) ){
            global $$key;
        }
    }
    connect_Db();
    if($tutorialAttendanceWalkInSubmit == "add to attendees"){
        $attendees = explode(" ", $attendeesStr);
        for($i = 0; $i < count($attendees); $i++){
            $query = "SELECT student_number FROM student WHERE student_number=' $attendees[$i] ' ";
            $result = mysql_query($query);
            if(mysql_num_rows($result) > 0){
                $query = "SELECT student_number FROM attendance WHERE tutorial_id=' $tutorial_id ' AND student_number=' $attendees[$i] ' ";
                $result = mysql_query($query);
                if(mysql_num_rows($result) > 0){
                    echo "error: the student number [ $attendees[$i] ] is already listed in the ATTENDEES table.<br><br>";
                }
            }
            else{
                $query = "INSERT INTO attendance VALUES (' $attendees[$i]', ' $tutorial_id', 'present', 'walk in') ";
                $result = mysql_query($query);
            }
        }
    }
    else{
        echo "error: the student number [ $attendees[$i] ] does not exist in the database.<br><br>";
    }
}
if($tutorialAttendanceSubmit == "add to attendees"){
    $query = "SELECT student_number FROM enlistment WHERE tutorial_id=' $tutorial_id ' ";
    $result = mysql_query($query);
    while($myrow = mysql_fetch_row($result)){
        if(in_array($myrow[0], $attendees)){
            $queryA = "INSERT INTO attendance VALUES (' $myrow[0]', ' $tutorial_id', 'present', 'online') ";
            $resultA = mysql_query($queryA);
        }
        else{
            $queryA = "INSERT INTO attendance VALUES (' $myrow[0]', ' $tutorial_id', 'absent', 'online') ";
            $resultA = mysql_query($queryA);
        }
    }
    //delete the enlistments...
    $query = "DELETE FROM enlistment WHERE tutorial_id=' $tutorial_id ' ";
    $result = mysql_query($query);
    echo "<br>";
}
if($studentNumberToRemoveFromAttendance != ""){
    $query = "DELETE FROM attendance WHERE student_number=' $studentNumberToRemoveFromAttendance ' AND tutorial_id=' $tutorial_id ' ";
    $result = mysql_query($query);
    echo "message: the specified student [ $studentNumberToRemoveFromAttendance ] was successfully removed from the ATTENDEES table.<br><br>";
}
if($studentNumberToMarkAsAbsent != ""){
    $query = "UPDATE attendance SET status='absent' WHERE student_number=' $studentNumberToMarkAsAbsent ' AND tutorial_id=' $tutorial_id ' ";
    $result = mysql_query($query);
}
if($studentNumberToMarkAsPresent != ""){
    $query = "UPDATE attendance SET status='present' WHERE student_number=' $studentNumberToMarkAsPresent ' AND tutorial_id=' $tutorial_id ' ";
    $result = mysql_query($query);
}
$query = "SELECT tutorial.tutorial_id, subject.subjectName, tutorial.topic, tutorial.date, tutorial.time, CONCAT(tutor.firstName, ' ',
tutor.middleName, ' ', tutor.lastName) AS tutorFullName, tutor.tutorType, tutor.deptCourse FROM subject, tutorial WHERE
tutorial.tutorial_id=' $tutorial_id ' AND tutorial.tutor_id=tutor.tutor_id AND tutorial.subject=subject.subject_id ORDER BY tutorial.date DESC,
tutorial.time DESC ";
$result = mysql_query($query);
$myrow = mysql_fetch_row($result);
echo "<table border='1'>";

```



```

echo "<tr><td colspan='2' align='center'>Tutorial Details</td></tr>";
echo "<tr><td>Subject</td><td>{$myrow[1]}</td></tr>";
echo "<tr><td>Date</td><td>{$myrow[2]}</td></tr>";
echo "<tr><td>Time</td><td>{$myrow[3]}</td></tr>";
echo "<tr><td>Tutor</td><td>{$myrow[4]}</td></tr>";
echo "<tr>";
if($myrow[6] == 'p'){
    echo "<td align='top'>Course</td><td>(peer)&nbsp;  ";
    $queryA = "SELECT degreeProgramName FROM degree_programs WHERE degreeProgram_Lid=' $myrow[7] ' ";
}
else{
    echo "<td align='top'>Department</td><td>(Faculty)&nbsp;  ";
    $queryA = "SELECT departmentName FROM upm_departments WHERE department_id=' $myrow[7] ' ";
}
$resultA = mysql_query($queryA);
$myrowA = mysql_fetch_row($resultA);
echo "$myrowA[0]";
echo "</td></tr>";
echo "<tr><td>Topic</td><td>";
foreach(explode(", ", $myrow[2]) AS $topicArrayElem){
    $queryA = "SELECT topicName FROM topic WHERE topic_c_id=' $topicArrayElem ' ";
    $resultA = mysql_query($queryA);
    $myrowA = mysql_fetch_row($resultA);
    echo "$myrowA[0]<br>";
}
echo "</td></tr>";
echo "</table>";
//display attendance sheet
echo "<br>";
echo "<table border='1'>";
echo "<form name='tutorialAttendeesForm' action='' method='POST'>";
$attendeeListColumnNames = array('Student Number', 'Name', 'Course', 'Enlistment Method');
echo "<tr><td colspan='5' align='center'>ATTENDEES</td></tr>";
$query = "SELECT a.student_number, CONCAT(s.firstName, ' ', s.middleName, ' ', s.lastName), s.course, a.enlistmentMethod, a.enlistmentMethod
FROM attendance AS a, student AS s WHERE s.student_number=a.student_number AND a.tutorial_id=' $tutorial_id' AND a.status='present' ORDER BY
a.enlistmentMethod ASC, a.student_number ASC ";
$result = mysql_query($query);
if(mysql_num_rows($result) > 0){
    echo "<tr>";
    foreach($attendeeListColumnNames AS $attendeeListColumnName){
        echo "<td align='center'>$attendeeListColumnName</td>";
    }
    echo "</tr>";
    while($myrow = mysql_fetch_row($result)){
        echo "<tr><td align='center'>";
        if($myrow[3] == 'online'){
            echo "<input id='buttonToLinkNoUnderline' type='button' name='removeButton' value='mark as absent' onClick='return
tutorialAttendeesConfirm($tutorial_id, 'absent')' onMouseOver='return cursorForButtonToLink(this)' />";
        }
        else{
            echo "<input id='buttonToLinkNoUnderline' type='button' name='removeButton' value='remove' onClick='return
tutorialAttendeesConfirm($tutorial_id, 'remove')' onMouseOver='return cursorForButtonToLink(this)' />";
        }
        echo "</td><td align='center'>$myrow[0]</td><td>$myrow[1]</td><td>$myrow[2]</td><td align='center'>$myrow[3]</td></tr>";
    }
}
else{
    echo "<tr><td align='center'>no records</td></tr>";
}
echo "<tr bgcolor='#FFFFFF'><td colspan='5'>&nbsp;  </td></tr>";
echo "<tr><td colspan='5' align='center'>ABSENTEES</td></tr>";
$query = "SELECT a.student_number, CONCAT(s.firstName, ' ', s.middleName, ' ', s.lastName), s.course, a.enlistmentMethod, a.enlistmentMethod
FROM attendance AS a, student AS s WHERE s.student_number=a.student_number AND a.tutorial_id=' $tutorial_id' AND a.status='absent' ORDER BY
a.enlistmentMethod ASC, a.student_number ASC ";
$result = mysql_query($query);
if(mysql_num_rows($result) > 0){
    echo "<tr>";
    foreach($attendeeListColumnNames AS $attendeeListColumnName){
        echo "<td align='center'>$attendeeListColumnName</td>";
    }
    echo "</tr>";
    while($myrow = mysql_fetch_row($result)){
        echo "<tr><td align='center'>";
        echo "<input id='buttonToLinkNoUnderline' type='button' name='removeButton' value='mark as present' onClick='return
tutorialAttendeesConfirm($tutorial_id, 'present')' onMouseOver='return cursorForButtonToLink(this)' /></td>";
        echo "<td align='center'>$myrow[0]</td><td>$myrow[1]</td><td>$myrow[2]</td><td align='center'>$myrow[3]</td></tr>";
    }
}
else{
    echo "<tr><td colspan='5' align='center'>no records</td></tr>";
}
echo "<input type='hidden' name='studentNumberToRemoveFromAttendance' value=' ' />";
echo "<input type='hidden' name='studentNumberToMarkAsAbsent' value=' ' />";
echo "<input type='hidden' name='studentNumberToMarkAsPresent' value=' ' />";
echo "<input type='hidden' name='tutorial_id' value=' $tutorial_id' />";
echo "</form>";
echo "</table>";
//display forms used for adding students in the 'ATTENDEES' table...
$query = "SELECT COUNT(student_number) FROM enlistment WHERE tutorial_id=' $tutorial_id' ";
$result = mysql_query($query);
$myrow = mysql_fetch_row($result);
$enlistedStudentCount = $myrow[0];
if($enlistedStudentCount > 0){
    //display enlisted students...
    echo "<br>";
    echo "message: please add the ENLISTED STUDENT who ATTENDED the tutorial using the form below.<br><br>";
    echo "<table border='1'>";
    echo "<form name='tutorialAttendanceForm' action='' method='POST'>";
    echo "<tr><td align='center' colspan='5'>ENLISTED STUDENTS</td></tr>";
    echo "<tr><td align='center'>Student Number</td><td align='center'>Name</td><td align='center'>Priority Number</td><td
align='center'>Priority Listing</td></tr>";
    $query = "SELECT e.student_number, e.priorityNumber, CONCAT(s.firstName, ' ', s.middleName, ' ', s.lastName) AS fullName FROM enlistment AS
e, student AS s WHERE e.student_number=s.student_number AND e.tutorial_id=' $tutorial_id' ORDER BY e.priorityNumber ASC LIMIT 0,
$maxTutorialEnlistees ";
    $result = mysql_query($query);
    $numOfPriorityEnlistees = 0;
    $priorityNumberDisplay = 0;
    while($myrow = mysql_fetch_row($result)){
        $priorityNumberDisplay++;
        echo "<tr><td align='center'><input type='checkbox' name='attendees[' value=' $myrow[0]' /></td><td>$myrow[0]</td><td>$myrow[1]</td><td
align='center'>$priorityNumberDisplay</td><td align='center'>PRIORITY</td></tr>";
        $numOfPriorityEnlistees++;
    }
    $query = "SELECT e.student_number, e.priorityNumber, CONCAT(s.firstName, ' ', s.middleName, ' ', s.lastName) AS fullName FROM enlistment AS
e, student AS s WHERE e.student_number=s.student_number AND e.tutorial_id=' $tutorial_id' ORDER BY e.priorityNumber ASC LIMIT
$numOfPriorityEnlistees, ($enlistedStudentCount - $numOfPriorityEnlistees) ";
    $result = mysql_query($query);
    while($myrow = mysql_fetch_row($result)){
        $priorityNumberDisplay++;
        echo "<tr>";
        $style = "background-color:#FFFFFF";
        echo "<td align='center'><input type='checkbox' name='attendees[' value=' $myrow[0]' /></td><td>$myrow[0]</td><td>$myrow[1]</td><td
align='center'>$priorityNumberDisplay</td><td align='center'>WAIT</td></tr>";
    }
    echo "<tr><td align='center' colspan='5'><input type='submit' name='tutorialAttendanceSubmit' value='add to attendees' /></td></tr>";
    echo "<input type='hidden' name='tutorial_id' value=' $tutorial_id' />";
    echo "</form>";
    echo "</table>";
}
}

```



```

var j = -1;
var lcBodyText = bodyText.toLowerCase();
while(bodyText.length > 0){
  i = bodyText.indexOf(searchTermA, i+1);
  if(i < 0){
    newText += bodyText;
    bodyText = "";
  }
  else{
    // skip anything inside an HTML tag
    if(bodyText.lastIndexOf(">", i) >= bodyText.lastIndexOf("<", i)){
      // skip anything inside a <script> block
      if(lcBodyText.lastIndexOf("/script>", i) >= lcBodyText.lastIndexOf("<script", i)){
        //search for the closing term of the system message...
        j = lcBodyText.indexOf(searchTermB, i + searchTermA.length);
        if(j > 0){
          newText += bodyText.substring(0, i) + highlightStartTag + bodyText.substr(i, j - i) + highlightEndTag + bodyText.substr(j,
searchTermB.length);
          bodyText = bodyText.substr(j + searchTermB.length);
          j = -1;
        }
        else{
          newText += bodyText.substring(0, i) + bodyText.substr(i, searchTermA.length);
          bodyText = bodyText.substr(i + searchTermA.length);
        }
        lcBodyText = bodyText.toLowerCase();
        i = -1;
      }
    }
  }
}
return newText;
}
function window_Onload(activateNav, activateTab){
  highlightSystemMessages();
  if(top != self){
    top.location = location;
  }
  switch(activateNav){
    case 'Question':
      if(activateTab == 'Search Question'){
        for(i = 0; i < document.questionQuery.qSubject.length; i++){
          if(document.questionQuery.qSubject[i].value == document.questionQuery.hSubject.value){
            document.questionQuery.qSubject[i].selected = true;
          }
        }
        for(i = 0; i < document.questionQuery.qTopic.length; i++){
          if(document.questionQuery.qTopic[i].value == document.questionQuery.hTopic.value){
            document.questionQuery.qTopic[i].selected = true;
          }
        }
        for(i = 0; i < document.questionQuery.qQuestionType.length; i++){
          if(document.questionQuery.qQuestionType[i].value == document.questionQuery.hQuestionType.value){
            document.questionQuery.qQuestionType[i].selected = true;
          }
        }
        for(i = 0; i < document.questionQuery.qDifficulty.length; i++){
          if(document.questionQuery.qDifficulty[i].value == document.questionQuery.hDifficulty.value){
            document.questionQuery.qDifficulty[i].selected = true;
          }
        }
        for(i = 0; i < document.questionQuery.qSortedBy.length; i++){
          if(document.questionQuery.qSortedBy[i].value == document.questionQuery.hSortedBy.value){
            document.questionQuery.qSortedBy[i].selected = true;
          }
        }
        for(i = 0; i < document.questionQuery.qDirection.length; i++){
          if(document.questionQuery.qDirection[i].value == document.questionQuery.hDirection.value){
            document.questionQuery.qDirection[i].checked = true;
          }
        }
        for(i = 0; i < document.questionQuery.qNumResults.length; i++){
          if(document.questionQuery.qNumResults[i].value == document.questionQuery.hNumResults.value){
            document.questionQuery.qNumResults[i].selected = true;
          }
        }
      }
      break;
      default:
      break;
    }
}
function insert_To_Upload_Field(index){
  window.clipboardData.setData("Text", document.clientUpload.elements[index].value);
  index++;
  index++;
  document.clientUpload.elements[index].focus();
  document.clientUpload.elements[index].select();
}
function check_File(index){
  for(var i = index; i < document.clientUpload.length; i++){
    if(document.clientUpload.elements[i].value != document.clientUpload.elements[i+2].value){
      alert("Please click ctrl-V again right after clicking OK");
      window.clipboardData.setData("Text", document.clientUpload.elements[i].value);
      with(document.clientUpload.elements[i+2]){
        focus(); select();
      }
    }
    return false;
  }
  i = i+2;
}
//alert("Okey pede na yan!");
return true;
}
function fullwin(url){
  window.open(url, "", "full screen, scrollbars");
}
function staffPasswordCheck(currentForm){
  if(currentForm.passwordNew.value.length < 8){
    alert("error: please use passwords of length 8 or more");
    currentForm.passwordNew.select();
    return false;
  }
  if(currentForm.passwordNewR.value.length < 8){
    alert("error: please use passwords of length 8 or more");
    currentForm.passwordNewR.select();
    return false;
  }
  return true;
}
function cursorForButtonToLink(currentElement){
  currentElement.style.cursor = "hand";
}
function sendTutorialIdToAttendance(currentForm, id){
  currentForm.tutorial_id.value = id;
  currentForm.submit();
}
function toggleExtraStudNum(currentForm){

```

```

var currentTr = document.all["extraStudNum"];
if(currentForm.submit.onType[0].checked){
    var displayStr = "none";
}
else{
    var displayStr = "";
}
for(var i = 0; i < currentTr.length; i++){
    currentTr[i].style.display = displayStr;
}
}
function tutorialAttendanceWalkInCheck(currentForm){
    var attendees = new Array();
    for(var i = 0; i < currentForm.length; i++){
        if(currentForm.elements[i].name == "studNumA"){
            if((currentForm.elements[i].value == "") && (currentForm.elements[i + 1].value == "")){
                i++;
                continue;
            }
            else{
                if(currentForm.elements[i].value == ""){
                    alert("error: incomplete student number");
                    currentForm.elements[i].select();
                    return false;
                }
                if(currentForm.elements[i + 1].value == ""){
                    alert("error: incomplete student number");
                    currentForm.elements[i + 1].select();
                    return false;
                }
                var re = /\d\d\d\d\d\d/;
                if(currentForm.elements[i].value.search(re) == -1){
                    alert("error: invalid student number");
                    currentForm.elements[i].select();
                    return false;
                }
                var re = /\d\d\d\d\d\d/;
                if(currentForm.elements[i + 1].value.search(re) == -1){
                    alert("error: invalid student number");
                    currentForm.elements[i + 1].select();
                    return false;
                }
            }
            attendees[attendees.length] = currentForm.elements[i].value + "-" + currentForm.elements[i + 1].value;
        }
        i++;
    }
    if(attendees.length == 0){
        return false;
    }
    currentForm.attendeesStr.value = attendees.join(",");
    return true;
}
function tutorialAttendeesConfirm(currentForm, studNum, toDo){
    switch(toDo){
        case "absent":
            currentForm.studentNumberToMarkAsAbsent.value = studNum;
            currentForm.submit();
            break;
        case "present":
            currentForm.studentNumberToMarkAsPresent.value = studNum;
            currentForm.submit();
            break;
        case "remove":
            if(confirm("message: you are about to remove student " + studNum + " from the ATTENDEES table.\n" + tabS + "Do you want to continue?")){
                currentForm.studentNumberToRemoveFromAttendance.value = studNum;
                currentForm.submit();
            }
            else{
                return false;
            }
            break;
        default:
            break;
    }
}
function tutorialScheduleSortJs(col){
    if(document.tutorialScheduleSortForm.column.value == col){
        if(document.tutorialScheduleSortForm.direction.value == "ASC"){
            document.tutorialScheduleSortForm.direction.value = "DESC";
        }
        else{
            document.tutorialScheduleSortForm.direction.value = "ASC";
        }
    }
    else{
        document.tutorialScheduleSortForm.column.value = col;
        document.tutorialScheduleSortForm.direction.value = "DESC";
    }
    document.tutorialScheduleSortForm.submit();
}
function availableSubjectSortJs(col){
    if(document.availableSubjectSortForm.column.value == col){
        if(document.availableSubjectSortForm.direction.value == "ASC"){
            document.availableSubjectSortForm.direction.value = "DESC";
        }
        else{
            document.availableSubjectSortForm.direction.value = "ASC";
        }
    }
    else{
        document.availableSubjectSortForm.column.value = col;
        document.availableSubjectSortForm.direction.value = "DESC";
    }
    document.availableSubjectSortForm.submit();
}
function availableTopicSortJs(col){
    if(document.availableTopicSortForm.column.value == col){
        if(document.availableTopicSortForm.direction.value == "ASC"){
            document.availableTopicSortForm.direction.value = "DESC";
        }
        else{
            document.availableTopicSortForm.direction.value = "ASC";
        }
    }
    else{
        document.availableTopicSortForm.column.value = col;
        document.availableTopicSortForm.direction.value = "DESC";
    }
    document.availableTopicSortForm.submit();
}
}
function subjectFormCheck(currentForm){
    if(currentForm.subjectName.value.length == 0){
        alert("error: please assign a subject name.");
        return false;
    }
    if(currentForm.subjectDescription.value.length == 0){
        alert("error: please assign a subject description.");
    }
}

```

```

        currentForm.subject.on.select();
        return false;
    }
    return true;
}
function topicFormCheck(currentForm){
    if(currentForm.subject.current.value == ""){
        alert("error: please select a subject.");
        document.loginForm.subject.current.focus();
        return false;
    }
    if(currentForm.subject.name.value.length == 0){
        alert("error: please assign a topic name.");
        currentForm.subject.name.select();
        return false;
    }
    if(currentForm.subject.deptNum.value == "please select"){
        alert("error: please select a departmental number.");
        currentForm.subject.deptNum.focus();
        return false;
    }
    return true;
}
function addQuestionJs(currentForm){
    if(currentForm.topic.current.value == "Select"){
        alert("error: please select a topic.");
        currentForm.topic.current.focus();
        return false;
    }
    if(currentForm.author.value.length == 0){
        alert("error: please supply an author.");
        currentForm.author.focus();
        return false;
    }
    return true;
}
function questionFilesJs(currentForm){
    var validExtensions = new Array(
        'bmp',
        'jpg',
        'jpeg',
        'gif',
        'png',
        'swf'
    );
    fuploadArray = currentForm.fupload.value.split(".");
    for(var i = 0; i < validExtensions.length; i++){
        if(fuploadArray[fuploadArray.length - 1].toLowerCase() == validExtensions[i].toLowerCase()){
            return true;
        }
    }
    return false;
}
function newWindowOpener(openPage) {
    var myDate = new Date();
    eval("var sub = window.open(" + openPage + "'sub_" + myDate.getTime() + "', 'HEIGHT=" + screen.height + ", WIDTH=" + screen.width + ", status, scrollbars");
}
function showUploadTemplateForm(){
    document.getElementById("uploadTemplate").style.display = "";
}

```

G. STUDENT

student.php

```

<?php
session_start();
require_once("../toes.inc.php");
require_once('student_Fcns.php');
if($firstVisit == "true"){
    $errorMessage = "";
}
$username = "";
$password = "";
if($Logout == '1'){
    session_unregister("username");
    session_unregister("password");
    session_unregister("hasLoggedIn");
    session_unregister("errorMessage");
    session_unregister("userScript");
    session_unset();
    session_destroy();
    $Logout = 0;
    $hasLoggedIn = 0;
    $errorMessage = "";
    $returnToHomepage = true;
}
if(($Login)&&($Logout != '1')){
    authorized_User();
    session_register("hasLoggedIn");
    header("Location: " . "http://" . $_SERVER["HTTP_HOST"] . $_SERVER["PHP_SELF"]);
}
if(($SESSION["hasLoggedIn"] == '1')&&($SESSION["userScript"] == 'student.php')){
    if($activeNav == ""){
        $activeNav = "My Tutorial";
    }
    print_Top_Nav();
    print_Banner();
    print_Nav();
    print_Tab();
    print_Body();
    print_Footer();
}
else{
    if($hasLoggedIn == '2'){
        //echo "$errorMessage";
        //echo "<br>";
    }
    display_Login_Form();
}
////////////////////////////////////
function print_Top_Nav(){
    global $activeNav;
    global $activeTab;
    print("<html>");
    print("<head>");
    print("<title>STUDENT Module</title>");
}

```

```

echo "<SCRIPT LANGUAGE='JavaScript' SRC='student_JavaScript.js'></SCRIPT>";
printNoscript();
print("<link rel='stylesheet' type='text/css' href='student_Style.css' />");
print("</head>");
print("<body onLoad='window.onload(' $activeNav , ' $activeTab')'>");
print("<div>");
print("<ul class='topnav'>");
print("<li><a href='<custhelpphp?statpos=topnav'>Help</a></li>");
print("<li class='lastli'><a href='?logout=1'>Logout</a></li>");
print("</ul>");
print("</div>");
print("<br>");
}
////////////////////////////////////
function print_Banner(){
global $username;
echo "<div class='banner'>";
echo "<table>";
echo "<tr><td height='100px' width='382px' background='<toes/files/pics/toes_logo.jpg'></td>";
echo "<td height='100px' width='200px' background='<toes/files/pics/main-page_logos_upm_lrc.gif'></td>";
echo "<td height='100px' width='382px' background='<toes/files/pics/student.gif' align='center' valign='bottom' style='padding-
bottom: 10px;'><font style='vertical-align: text-bottom;' size='4px' color='<#008080'>$username</font></td>";
echo "</tr></table>";
echo "</div>";
}
////////////////////////////////////
function print_Nav(){
global $activeNav;
global $activeTab;
print("<div id='nav'><div><ul>");
if($activeNav == 'My Tutorial'){
print("<li class='navselected'>");
else
print("<li>");
print("<a href='<activeNav=My Tutorial & activeTab=My Tutorial'>My Tutorial</a></li>");
if($activeNav == 'My Exam'){
print("<li class='navselected'>");
else
print("<li>");
print("<a href='<activeNav=My Exam & activeTab=My Exam'>My Exam</a></li>");
if($activeNav == 'My Account'){
print("<li class='navselected'>");
else
print("<li class='lastli'>");
print("<a href='<activeNav=My Account & activeTab=My Account'>My Account</a></li>");
print("&nbsp;");
print("</ul>");
print("</div></div>");
echo "<div style='background-color: FFFFFF; font-size: 75%;'>&nbsp;</div>";
}
}
////////////////////////////////////
function print_Tab(){
global $activeNav;
global $activeTab;
print("<div id='content'>");
print("<ul class='tabs'>");
switch($activeNav){
case 'My Tutorial':
if($activeTab == ''){
$activeTab = 'Tutorial Schedule';
}
if($activeTab == 'Tutorial Schedule'){
print("<li class='tabselected'>Tutorial Schedule</li>");
else
print("<li><a href='<activeNav=$activeNav & activeTab=Tutorial Schedule'>Tutorial Schedule</a></li>");
if($activeTab == 'Tutorial Request'){
print("<li class='tabselected'>Tutorial Request</li>");
else
print("<li><a href='<activeNav=$activeNav & activeTab=Tutorial Request'>Tutorial Request</a></li>");
if($activeTab == 'Tutorial Attendance'){
print("<li class='tabselected'>Tutorial Attendance</li>");
else
print("<li><a href='<activeNav=$activeNav & activeTab=Tutorial Attendance'>Tutorial Attendance</a></li>");
if($activeTab == 'Peer Schedule'){
print("<li class='tabselected'>Peer Schedule</li>");
else
print("<li><a href='<activeNav=$activeNav & activeTab=Peer Schedule'>Peer Schedule</a></li>");
if($activeTab == 'Faculty Schedule'){
print("<li class='tabselected'>Faculty Schedule</li>");
else
print("<li><a href='<activeNav=$activeNav & activeTab=Faculty Schedule'>Faculty Schedule</a></li>");
break;
case 'My Exam':
if($activeTab == ''){
$activeTab = 'Exam Schedule';
}
if($activeTab == 'Exam Schedule'){
print("<li class='tabselected'>Exam Schedule</li>");
else
print("<li><a href='<activeNav=$activeNav & activeTab=Exam Schedule'>Exam Schedule</a></li>");
if($activeTab == 'Take Exam'){
print("<li class='tabselected'>Take Exam</li>");
else
print("<li><a href='<activeNav=$activeNav & activeTab=Take Exam'>Take Exam</a></li>");
if($activeTab == 'Exam Results'){
print("<li class='tabselected'>Exam Results</li>");
else
print("<li><a href='<activeNav=$activeNav & activeTab=Exam Results'>Exam Results</a></li>");
break;
case 'My Account':
if($activeTab == ''){
$activeTab = 'View My Account';
}
if($activeTab == 'View My Account'){
print("<li class='tabselected'>View My Account</li>");
else
print("<li><a href='<activeNav=$activeNav & activeTab=View My Account'>View My Account</a></li>");
if($activeTab == 'Change Password'){
print("<li class='tabselected'>Change Password</li>");
else
print("<li><a href='<activeNav=$activeNav & activeTab=Change Password'>Change Password</a></li>");
break;
default:
break;
}
}
print("</ul>");
}
}
////////////////////////////////////
function print_Body(){
print("<div class='content'>");
print("<div class='inside'>");
print_Function();
print("</div>");
print("</div>");
}

```

```

}
////////////////////////////////////
function print_Function() {
    global $activeNav;
    global $activeTab;
    global $examEditFromBrowse;

    switch($activeNav) {
        case 'My Tutorial':
            switch($activeTab) {
                case 'Tutorial Schedule':
                    manage_My_Tutorial();
                    break;
                case 'Tutorial Request':
                    manage_My_Tutorial_Request();
                    break;
                case 'Tutorial Attendance':
                    manage_My_Tutorial_Attendance();
                    break;
                case 'Peer Schedule':
                    display_Tutor_Schedule();
                    break;
                case 'Faculty Schedule':
                    display_Tutor_Schedule();
                    break;
                default:
                    print("Please select from the tabbed-menu");
                    break;
            }
            break;
        case 'My Exam':
            switch($activeTab) {
                case 'Exam Schedule':
                    view_Exam_Schedule();
                    break;
                case 'Take Exam':
                    take_Exam();
                    break;
                case 'Exam Results':
                    exam_Result();
                    break;
                default:
                    print("Please select from the tabbed-menu");
                    break;
            }
            break;
        case 'My Account':
            switch($activeTab) {
                case 'View My Account':
                    manage_My_Account();
                    break;
                case 'Change Password':
                    manage_Password();
                    break;
                default:
                    print("Please select from the tabbed-menu");
                    break;
            }
            break;
        default:
            print("Please select from the menu");
            break;
    }
}
////////////////////////////////////
function print_Footer() {
    print("<div>");
    print("<div id='footer'>");
    print("<div>University of the Philippines Manila, Learning Resource Center's</div>");
    print("<div>tutorial and Online Examination System (TOES)</div>");
    print("<div>Copyright © 2006</div>");
    print("</div>");
    print("<div style='width: 780px'>&nbsp;&nbsp;&nbsp;</div>");
    print("</div>");
    echo "<div style='background-color: #008000'>&nbsp;&nbsp;&nbsp;</div>";
    print("</body>");
    print("</html>");
}
////////////////////////////////////
function toHtml($htmlLine) {
    return (str_replace("\n", "\\\n", $htmlLine));
}
////////////////////////////////////
function authorized_User() {
    global $username;
    global $password;
    global $errorMessage;
    global $hasLoggedIn;
    global $userScript;

    connect_Db();
    $query = "SELECT * FROM student where student_number=' $username' and password=' $password' ";
    $result = mysql_query($query);
    $myrow = mysql_fetch_array($result);

    if(($username != NULL)&&($password != NULL)&&($myrow[student_number] == $username)&&($myrow[password] == $password)&&(($myrow[status] ==
    "inactive" || ($myrow[status] == "suspended"))){
        $hasLoggedIn=1;
        session_register("hasLoggedIn");
        session_register("username");
        session_register("password");
        $userScript= 'student.php';
        session_register("userScript");
    }
    else{
        if(($username == NULL)||($password == NULL)){
            $errorMessage = "error: Please enter your Student Number and password!";
        }
        else{
            if($myrow[status] == "inactive"){
                //echo "[status=inactive]";
                $errorMessage = "message: Sorry your account is temporarily INACTIVE please visit LRC to REACTIVATE it.";
            }
            elseif($myrow[status] == "suspended"){
                //echo "[status=suspended]";
                $errorMessage = "message: TOES SUSPENDED your account for not attending your enlisted tutorial. Please visit LRC to RESUME your
account.";
            }
            else{
                $errorMessage = "error: Invalid Student Number or password!";
            }
        }
        session_register("errorMessage");
        $hasLoggedIn=2;
        session_register("hasLoggedIn");
    }
}
}

```



```

)
$query = "SELECT request.request_id, subject.subjectName, request.topic, request.preferredDay, request.preferredTime, request.requestDate,
request.subject FROM subject, request WHERE request.student_number=' $username' AND subject.subject_id=request.subject GROUP BY request.subject,
request.topic, request.preferredDay, request.preferredTime ORDER BY subject.subjectName ";
$result = mysql_query($query);
if(mysql_num_rows($result) > 0){
    while($myrow = mysql_fetch_row($result)){
        $myTutorialRequestArray[] = $myrow[6].$myrow[2].$myrow[3].$myrow[4];
    }
}
if(isset($myTutorialRequestArray)){
    echo "<input type='hidden' name='myTutorialRequestString' value='".implode(" ", $myTutorialRequestArray)."'>";
}
else{
    echo "<input type='hidden' name='myTutorialRequestString' value=''>";
}
echo "<input type='hidden' name='submitMode' value='clickingSubmitButton'>";
if(isset($subject)){
    $diablerStr = "";
}
else{
    $diablerStr = "DI SABLED";
}
echo "<tr><td colspan='2' align='center'><input type='submit' name='newTutorialRequestSubmit' value='submit' $diablerStr/></td></tr>";
echo "</form>";
echo "</table>";
}
else{
    if($requestIdToCancelH != ''){
        connect_Db();
        $query = "DELETE FROM request WHERE request_id=' $requestIdToCancelH' ";
        $result = mysql_query($query);
        echo "message: the specified request was successfully cancelled.<br><br>";
    }
    if($requestIdToJoinH != ''){
        connect_Db();
        $query = "SELECT subject, topic, preferredDay, preferredTime, preferredTutor FROM request WHERE request_id=' $requestIdToJoinH' ";
        $result = mysql_query($query);
        if(mysql_num_rows($result) > 0){
            //do not tolerate duplication...
            $queryA = "SELECT r.request_id FROM request AS r LEFT JOIN request AS j ON (r.subject=j.subject AND r.topic=j.topic AND
r.preferredDay=j.preferredDay AND r.preferredTime=j.preferredTime AND r.preferredTutor=j.preferredTutor) WHERE j.request_id=' $requestIdToJoinH'
AND r.student_number=' $username' ";
            $resultA = mysql_query($queryA);
            if(mysql_num_rows($resultA) == 0){
                $myrow = mysql_fetch_row($result);
                $nextId = get_Next_Id("request_id", 'request');
                $requestDate = date("Y-m-d H:i:s", time());
                $query = "INSERT INTO request (request_id, student_number, subject, topic, preferredTutor, preferredDay, preferredTime, requestDate)
VALUES (' $nextId', '$username', '$myrow[0]', '$myrow[1]', '$myrow[4]', '$myrow[2]', '$myrow[3]', '$requestDate')";
                $result = mysql_query($query);
                echo "message: the specified tutorial request was successfully added to the 'My Tutorial Request' table.<br><br>";
            }
            else{
                echo "error: the specified tutorial request is already found in the 'My Tutorial Request' table.<br><br>";
            }
        }
        else{
            echo "error: the request that you were about to join is now missing. There are two possible scenarios that might have caused
this:<br>";
            echo $tabS."1. the original author of the request CANCELLED it. Try to CREATE a new tutorial request in the 'Tutorial Request'
tab.<br>";
            echo $tabS."2. the administrator APPROVED the request. Please check the 'Available Tutorial Schedules' in the 'Tutor Schedule'
tab.<br><br>";
        }
    }
    echo "<button name='showHiDeRemindersButton' onClick='return showHiDeReminders(this)'>show reminders</button>";
    echo "<br><span id='remindersSpan' style='font-size: 75%; display: none;'>";
    echo "<br> Important reminders:";
    echo "<ol>";
    echo "<li>TOES makes sure that all 'Tutorial Requests' are requested at least TWO DAYS ahead of the 'Preferred Day'.</li>";
    echo "<li>It is YOUR sole responsibility to follow up the development of your requests.</li>";
    echo "<li>In case the 'Preferred Tutor' is NOT AVAILABLE on the 'Preferred Day' the LRC will choose another tutor who is AVAILABLE. In some
rare cases, when no tutor is available LRC has no choice but to DISAPPROVE the request.</li>";
    echo "<li>An APPROVED 'Tutorial Request' will automatically be given a 'Tutorial Schedule' and all students who requested it will
automatically be enlisted.</li>";
    echo "<li>The LRC may DISAPPROVE your 'Tutorial Request' due to unavailable resources (i.e. tutor availability). A DISAPPROVED 'Tutorial
Request' will be automatically deleted after being displayed for the very first time. It will be shown in the 'My Tutorial Request' table
marked as DISAPPROVED and colored RED.</li>";
    echo "<li>A 'Tutorial Request' EXPIRES when the 'Preferred Day' matches the current date. An EXPIRED 'Tutorial Request' will be
automatically deleted after being displayed for the very first time. It will be shown in the 'My Tutorial Request' table marked as EXPIRED and
colored RED.</li>";
    echo "</ol>";
    echo "</span>";
}
echo "<br><table width='100%'>";
echo "<tr><td align='center' bgcolor=#D3F2D3>My Tutorial Requests</td></tr>";
echo "</table>";
connect_Db();
$query = "SELECT request.request_id, subject.subjectName, request.topic, request.preferredDay, request.preferredTime, request.requestDate,
request.subject, CONCAT(tutor.firstName, ' ', tutor.middleName, ' ', tutor.lastName), IF(request.preferredDay<=CURDATE(), 'expired', 'unexpired')
FROM subject, request, tutor WHERE request.preferredTutor=tutor.tutor_id AND request.student_number=' $username' AND
subject.subject_id=request.subject GROUP BY request.subject, request.topic, request.preferredDay, request.preferredTime ORDER BY
subject.subjectName ";
$result = mysql_query($query);
$numberOfMyRequest = mysql_num_rows($result);
if($numberOfMyRequest > 0){
    echo "<div style='height: auto; width: 100%; overflow: scroll;'>";
    echo "<table id='myTutorialRequestTable' border='1' width='100%'>";
    echo "<form name='cancelTutorialRequestForm' action='?activeNav=$activeNav&activeTab=$activeTab' method='POST'>";
    echo "<tr><td align='center'>Subject</td><td align='center'>Topic</td><td align='center'>Preferred Tutor</td><td align='center'>Preferred Day</td><td align='center'>Date Requested<br>year-mo-day hr-min-sec</td></tr>";
    while($myrow = mysql_fetch_row($result)){
        $topicArray = explode(" ", $myrow[2]);
        if($myrow[8] == "expired"){
            echo "<tr style='background-color: #FF8080;'><td align='center'>";
            echo "<font style='font-size: 75%;>EXPIRED</font>";
        }
        else if($myrow[8] == "0"){
            echo "<tr style='background-color: #FF8080;'><td align='center'>";
            echo "<font style='font-size: 75%;>DISAPPROVED</font>";
        }
        else{
            echo "<tr><td align='center'>";
            echo "<button id='buttonToLink' name='cancel' onClick='return sendRequestIdToCancel($myrow[0])' onMouseOver='return
cursorForButtonToLink(this)'>cancel</button>";
        }
    }
    echo "</td>";
    echo "<td>$myrow[1]</td><td>";
    foreach($topicArray AS $topicArrayElem){
        $queryA = "SELECT topicName FROM topic WHERE topic_id=' $topicArrayElem' ";
        $resultA = mysql_query($queryA);
        $myrowA = mysql_fetch_row($resultA);
        echo "$myrowA[0]<br>";
    }
    echo
"</td><td>$myrow[7]</td><td>".reformatDateForDisplay($myrow[3])."</td><td>".reformatTimeForDisplay($myrow[4])."</td><td>$myrow[5]</td></tr>";
    $myTutorialRequestArray[] = $myrow[6].$myrow[2].$myrow[3].$myrow[4];
}
}

```



```

connect_Db();
//check if TUTORIAL SCHEDULE is flagged as CANCELLED...
$queryA = "SELECT student_number FROM enlistment WHERE priorityNumber='0' AND tutorial_id=' $tutorialIdToEnlist' LIMIT 0, 1 ";
$resultA = mysql_query($queryA);
if(mysql_num_rows($resultA) > 0){
    echo "message: sorry but the TUTORIAL SCHEDULE you are enlisting was CANCELLED earlier.<br><br>";
}
else{
    //avoid duplication...
    $query = "SELECT student_number FROM enlistment WHERE student_number=' $username' AND tutorial_id=' $tutorialIdToEnlist' ";
    $result = mysql_query($query);
    if(mysql_num_rows($result) == 0){
        $query = "SELECT MAX(priorityNumber) FROM enlistment WHERE tutorial_id=' $tutorialIdToEnlist' ";
        $result = mysql_query($query);
        $myrow = mysql_fetch_row($result);
        if($myrow[0] == 0){
            $myrow[0]++;
        }
        $query = "INSERT INTO enlistment VALUES (' $username', ' $tutorialIdToEnlist', '', ($myrow[0] + 1).'' ) ";
        $result = mysql_query($query);
        echo "message: you are now enlisted in the tutorial that you specified earlier.<br><br>";
    }
}
if($tutorialIdToDelist != ''){
    connect_Db();
    $query = "DELETE FROM enlistment WHERE student_number=' $username' AND tutorial_id=' $tutorialIdToDelist' ";
    $result = mysql_query($query);
    echo "message: your enlistment in the specified 'Tutorial Schedule' was successfully cancelled.<br><br>";
}
echo "<button name='showHideRemindersButton' onClick='return showHideReminders(this)'>show reminders</button>";
echo "<br><span id='remindersSpan' style='font-size: 75%; display: none;'>";
echo "<br>Tutorial reminders: ";
echo "<ol>";
echo "<li>Be ON TIME, don't keep your tutor waiting for you.</li>";
echo "<li>If you have to CANCEL your appointment, please INFORM US A DAY before your schedule so that we can inform the tutor immediately. A student who fail to show up on the scheduled date will be marked as ABSENT and his/her TOES account will be suspended. We are doing this so that we can make the most out of our time and resources.</li>";
echo "<li>READ AND STUDY your lessons before attending the tutorial.</li>";
echo "<li>Bring modules/textbook/workbook which can be used as references during the tutorial; paper, pen, scientific calculator...etc</li>";
echo "</ol>";
echo "Enlistment reminders: ";
echo "<ol>";
echo "<li>IMPORTANT! It is your sole responsibility to track the status of your ENLISTMENTS.</li>";
echo "<li>Ideally, a tutorial schedule accepts a MAXIMUM of $maxTutorialEnlistees students. In some rare occasions when the number of enlistees exceeds this limit the excess students' Priority Listing will be marked as 'WAIT LISTED' while the tutorial schedule's status will be marked as 'FULL'. If you happen to be marked as 'WAIT LISTED' please contact the ADMINISTRATOR so that he/she may prepare actions to accommodate you better. Most of the time a similar 'Tutorial Schedule' will be created and will be handled by a different tutor.</li>";
echo "<li>The ENLISTMENT is based on a FIRST-COME-FIRST-SERVE (FCFS) basis. You may view the PRIORITY TABLE to get a better idea.</li>";
echo "<li>In some rare occasions the LRC may CANCEL a TUTORIAL SCHEDULE. If you happen to be enlisted in that TUTORIAL you will be notified through the 'My Enlisted Tutorials' table. CANCELLED TUTORIAL SCHEDULES are colored RED and marked as CANCELLED.</li>";
echo "</ol>";
echo "</span>";

echo "<br><table width='100%'>";
echo "<tr><td align='center' bgcolor='#D3F2D3'>My Enlisted Tutorials</td></tr>";
echo "</table>";
connect_Db();
$query = "SELECT subject.subjectName, tutorial.topic, tutorial.time, tutorial.date, CONCAT(tutor.firstName, ' ', tutor.middleName, ' ', tutor.lastName) AS tutorFullName, tutor.deptCourse, tutor.tutorType, tutorial.tutorial_id, enlistment.priorityNumber FROM enlistment, subject, tutorial WHERE tutor.tutorial_id=tutorial.tutorial_id AND tutorial.subject=subject.subject_id AND tutorial.tutorial_id=enlistment.tutorial_id AND enlistment.student_number=' $username' ";
$result = mysql_query($query);
if(mysql_num_rows($result) > 0){
    echo "<div style='height: auto; width: 100%; overflow: scroll;'>";
    echo "<form name='delistAvailableTutorialForm' action='?activeNav=$activeNav&activeTab=$activeTab' method='POST' style='display: inline;'>";
    echo "<table id='tutorScheduleTable' border='1' width='100%'>";
    $myEnlistedTutorialTableColumnNameArray = array('Priority Listing', 'Subject', 'Topic', 'Time', 'Date', 'Tutor', 'Course/Department', 'Priority Table');
    echo "<tr>";
    foreach($myEnlistedTutorialTableColumnNameArray AS $myEnlistedTutorialTableColumnNameArrayElement){
        echo "<td align='center'>$myEnlistedTutorialTableColumnNameArrayElement</td>";
    }
    echo "</tr>";
    while($myrow = mysql_fetch_row($result)){
        //detect if PRIORITY or WAIT LISTED
        $spn = 0;
        $queryA = "SELECT student_number FROM enlistment WHERE tutorial_id=' $myrow[7]' ORDER BY priorityNumber ASC ";
        $resultA = mysql_query($queryA);
        $total = mysql_num_rows($resultA);
        $studentNumberFound = false;
        while($myrowA = mysql_fetch_row($resultA)){
            $spn++;
            if($myrowA[0] == $username){
                $studentNumberFound = true;
                break;
            }
        }
        //notify student if cancelled...
        if($myrow[8] == "0"){
            echo "<tr style='background-color:#FF8080;'>";
            echo "<td align='center'><font style='font-size: 75%;>CANCELLED</font></td>";
        }
        else{
            //if($studentNumberFound){
            if($spn > $maxTutorialEnlistees){
                echo "<tr style='background-color:#FFFF80;'>";
            }
            else{
                echo "<tr>";
            }
            echo "<td><button id='buttonToLink' onClick='return sendTutorialIdToDelist($myrow[7])' onMouseOver='return cursorForButtonToLink(this)'>cancel</button></td>";
        }
        //if($studentNumberFound){
        if($spn > $maxTutorialEnlistees){
            echo "<td align='center'>WAIT LISTED";
        }
        else{
            echo "<td align='center'>PRIORITY";
        }
        echo "</td>";
        echo "<td>$myrow[0]</td>";
        echo "<td>";
        foreach(explode(" ", $myrow[1]) AS $topicElement){
            $queryA = "SELECT topicName FROM topic WHERE topic_id=' $topicElement' ";
            $resultA = mysql_query($queryA);
            $myrowA = mysql_fetch_row($resultA);
            echo "$myrowA[0]<br>";
        }
        echo "</td>";
        echo "<td>";
        reformatTimeForDisplay($myrow[2]);
        echo "</td>";
        reformatDateForDisplay($myrow[3]);
        echo "</td>";
        echo "<td>$myrow[4]</td>";
        echo "<td>";
        if($myrow[6] == "p"){
            echo "(peer)&nbsp;";
            $queryA = "SELECT degreeProgramName FROM degree_programs WHERE degreeProgram_id=' $myrow[5]' ";

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    }
    else{
        echo "(faculty)&nbsp;";
        $queryA = "SELECT departmentName FROM upm_departments WHERE department_id=' $myrow[5] ' ";
    }
    $resultA = mysql_query($queryA);
    $myrowA = mysql_fetch_row($resultA);
    echo "$myrowA[0]<br>";
    echo "</td>";
    echo "<td align='center'>";
    echo "<a href='javascript:void openPriorityTable(\"$total\", \"$maxTutorialEnlistees\", \"\$pn\")'>";
    echo "<font style='color:blue;font-size:75%;text-decoration:none;'>VIEW</font></a></td>";
    echo "</tr>";
    //delete the student enlistment after notifying the student...
    if($myrow[8] == "0"){
        $queryA = "SELECT COUNT(student_number) FROM enlistment WHERE tutorial_id=' $myrow[7] ' ";
        $resultA = mysql_query($queryA);
        $myrowA = mysql_fetch_row($resultA);
        if($myrowA[0] == 1){
            //delete the TUTORIAL SCHEDULE when the LAST enlisted student is notified...
            $queryA = "DELETE FROM tutorial WHERE tutorial_id=' $myrow[7] ' ";
            $resultA = mysql_query($queryA);
        }
        //delete student ENLISTMENT...
        $queryA = "DELETE FROM enlistment WHERE student_number=' $username' AND tutorial_id=' $myrow[7] ' ";
        $resultA = mysql_query($queryA);
    }
    echo "<input type='hidden' name='tutorialIdToDelistH' value=' ' />";
    echo "</form>";
    echo "</table>";
    echo "</div>";
}
else{
    echo "<table width='100%'>";
    echo "<tr><td align='center'>no records</td></tr>";
    echo "</table>";
}

echo "<br><table width='100%'>";
echo "<tr><td align='center' bgcolor='#D3F2D3'>Available Tutorial Schedules</td></tr>";
echo "</table>";
$query = "SELECT s.subjectName, tt.topic, tt.time, tt.date, CONCAT(t.firstName, ' ', t.middleName, ' ', t.lastName) AS tutorFullName,
t.deptCourse, t.tutorType, tt.tutorial_id, a.student_number, COUNT(e.student_number) FROM subject AS s, tutor AS t, tutorial AS tt LEFT JOIN
attendance AS a ON (tt.tutorial_id=a.tutorial_id) LEFT JOIN enlistment AS e ON (tt.tutorial_id=e.tutorial_id) WHERE t.tutor_id=tt.tutor_id AND
tt.subject=s.subject_id GROUP BY tt.tutorial_id ";
$result = mysql_query($query);
$numOfNonEnlistedTutorial = 0;
if(mysql_num_rows($result) > 0){
    while($myrow = mysql_fetch_row($result)){
        //check if ATTENDANCE is already signed
        if($myrow[8] != ""){
            continue;
        }
        //check if TUTORIAL SCHEDULE is flagged as CANCELLED...
        if($myrow[9] > 0){
            $queryA = "SELECT student_number FROM enlistment WHERE priorityNumber='0' AND tutorial_id=' $myrow[7] ' LIMIT 0, 1 ";
            $resultA = mysql_query($queryA);
            if(mysql_num_rows($resultA) > 0){
                continue;
            }
        }
        $queryA = "SELECT student_number FROM enlistment WHERE tutorial_id=' $myrow[7] ' AND student_number=' $username' ";
        $resultA = mysql_query($queryA);
        if(mysql_num_rows($resultA) == 0){
            $numOfNonEnlistedTutorial++;
            if($numOfNonEnlistedTutorial == 1){
                echo "<div style='height:auto; width:100%; overflow:scroll;'>";
                echo "<table id='tutorScheduleTable' border='1' width='100%'>";
                echo "<form name='enlistAvailbleTutorialForm' actions='?actveNav=$actveNav&actveTab=$actveTab' method='POST'>";
                $availbleTutorialTableColumNameArray = array('','Status', 'Subject', 'Topic', 'Time', 'Date', 'Tutor', 'Course/Department',
                'Priority');
                echo "<tr>";
                foreach($availbleTutorialTableColumNameArray AS $availbleTutorialTableColumNameArrayElem){
                    echo "<td align='center'>$availbleTutorialTableColumNameArrayElem</td>";
                }
            }
            if($myrow[9] >= $maxTutorialEnlistees){
                echo "<tr style='background-color:#FFFF80;'>";
            }
            else{
                echo "<tr>";
            }
            echo "<td><button id='buttonToLink' onClick='return sendTutorialIdToEnlist($myrow[7])' onMouseOver='return
            cursorForButtonToLink(this)'>enlist</button></td>";
            if($myrow[9] >= $maxTutorialEnlistees){
                echo "<td align='center'>FULL</td>";
            }
            else{
                echo "<td align='center'>OPEN</td>";
            }
            echo "<td>$myrow[0]</td>";
            echo "<td>";
            foreach(explode(", ", $myrow[1]) AS $topicElem){
                $queryA = "SELECT topicName FROM topic WHERE topic_id=' $topicElem ' ";
                $resultA = mysql_query($queryA);
                $myrowA = mysql_fetch_row($resultA);
                echo "$myrowA[0]<br>";
            }
            echo "</td>";
            echo "<td>".reformatTimeForDisplay($myrow[2])."</td>";
            echo "<td>".reformatDateForDisplay($myrow[3])."</td>";
            echo "<td>$myrow[4]</td>";
            echo "<td>";
            if($myrow[6] == "p"){
                if($myrow[6] == "p"){
                    $queryA = "SELECT degreeProgramName FROM degree_programs WHERE degreeProgram_id=' $myrow[5] ' ";
                }
            }
            else{
                echo "(faculty)&nbsp;";
                $queryA = "SELECT departmentName FROM upm_departments WHERE department_id=' $myrow[5] ' ";
            }
            $resultA = mysql_query($queryA);
            $myrowA = mysql_fetch_row($resultA);
            echo "$myrowA[0]<br>";
            echo "</td>";
            echo "<td align='center'>";
            echo "<a href='javascript:void openPriorityTable(\"$myrow[9]\", \"$maxTutorialEnlistees\", \"\$pn\")'>";
            echo "<font style='color:blue;font-size:75%;text-decoration:none;'>VIEW</font></a></td>";
            echo "</tr>";
        }
    }
}
if($numOfNonEnlistedTutorial != 0){
    echo "</tr>";
    echo "<input type='hidden' name='tutorialIdToEnlistH' value=' ' />";
    echo "</form>";
    echo "</table>";
    echo "</div>";
}
}

```

```

}
if($numOfNonEnlistedTutorial == 0){
echo "<table width=100%>";
echo "<tr><td align=center>no records</td></tr>";
echo "</table>";
}
}
////////////////////////////////////
function reformatDateForDisplay($date){
$dateArray = explode("-", $date);
$dateUnix = mktime("","",$dateArray[1], $dateArray[2], $dateArray[0]);
return date("l F j, Y", $dateUnix);
}
////////////////////////////////////
function viewExamSchedule(){
foreach($GLOBALS as $key=>$value){
//print "\$GLOBALS["$key"] = $value<br>";
if (ereg("[a-z]", $key[0], $array )){
global $$key;
}
}
if((isset($batchScheduleIdToUnregisterH))&&($batchScheduleIdToUnregisterH != '')){
connect_Db();
$query = "SELECT authorization FROM registration WHERE batch_id=' $batchScheduleIdToUnregisterH' AND student_number=' $username' ";
$result = mysql_query($query);
$row = mysql_fetch_row($result);
if($row[0] == "yes"){
echo "message: the administrator has already authorized you to take the specified exam.<br><br>";
echo "click here to take the exam";
}
else{
$query = "DELETE FROM registration WHERE batch_id=' $batchScheduleIdToUnregisterH' AND student_number=' $username' ";
$result = mysql_query($query);
echo "message: your registration for the specified exam batch schedule was successfully removed.<br><br>";
}
}
if((isset($batchScheduleIdToRegisterH))&&($batchScheduleIdToRegisterH != '')){
connect_Db();
$query = "SELECT accessibility FROM batch WHERE batch_id=' $batchScheduleIdToRegisterH' ";
$result = mysql_query($query);
$row = mysql_fetch_row($result);
if($row[0] == "open"){
//avoid duplication of SUBJECT, DEPARTMENTALNUMBER, TERM, SY
$queryA = "SELECT e.subject_id, e.deptNum, b.term, b.sy FROM batch AS b, exam AS e WHERE b.batch_id=' $batchScheduleIdToRegisterH' AND
b.exam_id=e.exam_id ";
$resultA = mysql_query($queryA);
$rowA = mysql_fetch_row($resultA);
$queryA = "SELECT r.batch_id FROM registration AS r, batch AS b, exam AS e WHERE r.student_number=' $username' AND r.batch_id=b.batch_id
AND b.exam_id=e.exam_id AND e.subject_id=' $rowA[0]' AND e.deptNum=' $rowA[1]' AND b.term=' $rowA[2]' AND b.sy=' $rowA[3]' ";
$resultA = mysql_query($queryA);
if(mysql_num_rows($resultA) == 0){
if(!overlappingExamBatchSchedule($batchScheduleIdToRegisterH)){
$query = "SELECT exam.allottedTime FROM exam, batch WHERE exam.exam_id=batch.exam_id AND batch.batch_id=' $batchScheduleIdToRegisterH'
";
$result = mysql_query($query);
$row = mysql_fetch_row($result);
$allottedTime = $row[0];
$query = "SELECT availableSlots FROM batch WHERE batch_id=' $batchScheduleIdToRegisterH' ";
$result = mysql_query($query);
$row = mysql_fetch_row($result);
$availableSlots = $row[0];
$query = "SELECT COUNT(batch_id) FROM registration WHERE batch_id=' $batchScheduleIdToRegisterH' ";
$result = mysql_query($query);
$row = mysql_fetch_row($result);
$takenSlots = $row[0];
if($availableSlots - $takenSlots > 0){
$query = "INSERT INTO registration VALUES (' $batchScheduleIdToRegisterH', '$username', '', date('Y-m-d H:i:s', time()), '',
'$allottedTime', 'online', 'waiting', 'no', 'none', '', date('Y-m-d H:i:s', time()), '') ";
$result = mysql_query($query);
echo "message: your registration for the specified exam batch schedule was successfully recorded.<br><br>";
}
else{
echo "error: sorry but another registrant took the remaining slot(s).<br><br>";
}
}
}
}
else{
//check if student already took the EXAM for this EXAM BATCH SCHEDULE...
$rowA = mysql_fetch_row($resultA);
$queryA = "SELECT batch_id FROM answer WHERE student_number=' $username' AND batch_id=' $rowA[0]' ";
$resultA = mysql_query($queryA);
if(mysql_num_rows($resultA) > 0){
echo "error: sorry but our records shows that you are already registered in an EXAM BATCH SCHEDULE whose SUBJECT, DEPARTMENTAL
NUMBER, TERM AND SCHOOL YEAR is similar to the one you submitted.<br><br>";
}
else{
echo "error: sorry but our records shows that you are already registered in an EXAM BATCH SCHEDULE whose SUBJECT, DEPARTMENTAL
NUMBER, TERM AND SCHOOL YEAR is similar to the one you submitted.<br><br>";
}
}
}
else{
echo "error: sorry but the EXAM BATCH SCHEDULE [Batch Id = $batchScheduleIdToRegisterH] you are about to register is already
CLOSED.<br><br>";
}
}
}
$subjectSaver = $subject;
echo "<button name='showHiDeRemindersButton' onClick='return showHiDeReminders(this)'>show reminders</button>";
echo "<br><span id='remindersSpan' style='font-size: 75%; display:none;'>";
echo "<br>Registration reminders (Please read thoroughly).";
echo "</span>";
echo "<li>IMPORTANT! It is your sole responsibility to track the status of your REGISTRATION.</li>";
echo "<li>Each EBS comes with a 'Remaining Slots' number. In real world this number reflects the quantity of available computers for that
EBS. If this number becomes 0 the EBS's status will be 'FULL' otherwise 'OPEN'. When a student registers a FULL EBS his/her 'Priority Listing'
will be marked as 'WAIT LISTED'. PRIORITY students are the ones with reserved SLOTS.</li>";
echo "<li>We do not encourage registering in a FULL EBS because we can not guarantee if we can accommodate you. Your only HOPE here maybe
either when the number of computers is increased or when the registrants before you are ABSENT. If you insist feel free to gamble.</li>";
echo "<li>The REGISTRATION is based on a FIRST-COME-FIRST-SERVE (FCFS) basis. You may view the PRIORITY TABLE to get a better idea.</li>";
echo "<li>During the scheduled date of your REBS please be there by atleast $rebsWaitingPeriod minutes (WAITING PERIOD) before the 'Exam
Time'. The registration of any student who fail to show up during this WAITING PERIOD will be CANCELLED to give way to other registrants below
him/her in the FCFS order.</li>";
echo "</ol>";
echo "</span>";
echo "<br>";
displayBatchPerSubject('');
$subject = $subjectSaver;
echo "<br>";
displayBatchPerSubject(' ', false);
}
////////////////////////////////////
function displayBatchPerSubject($batchSubject, $displayRegistered = true){
foreach($GLOBALS as $key=>$value){
//print "\$GLOBALS["$key"] = $value<br>";
}
}

```

```

    if (ereg("[a-z]", $key[0], $array) ) {
        global $$key;
    }
}
connect_Db();
echo "<table width='100%'>";
echo "<tr>";
if($batchSubject != ""){
    $query = "SELECT subjectName FROM subject WHERE subject_id=' $batchSubject' ";
    $result = mysql_query($query);
    $myrow = mysql_fetch_row($result);
    echo "<td bgcolor='#D3F2D3'>$myrow[0]";
}
else{
    echo "<td align='center' bgcolor='#D3F2D3'>";
    if($displayRegistered){
        echo "Registered Exam Batch Schedules (REBS)";
    }
    else{
        echo "<form name='selectSubjectForm' action='?activenav=$activenav&activeTab=$activeTab' method='POST' style='display:inline;'>";
        echo "<select name='subject' onChange='this.form.submit();'>";
        //if(isset($subject)){
            echo "<option value='>all</option>";
        //}
        connect_Db();
        $query = "SELECT subject_id, subjectName FROM subject ORDER BY subjectName";
        $result = mysql_query($query);
        if(mysql_num_rows($result) > 0){
            while($myrow = mysql_fetch_row($result)){
                if($subject == $myrow[0]){
                    echo "<option value=' $myrow[0]' selected='selected'>$myrow[1]</option>";
                }
                else{
                    echo "<option value=' $myrow[0]'>$myrow[1]</option>";
                }
            }
        }
        echo "</select>";
        echo "</form>";
        echo "&nbsp;Exam Batch Schedules (EBS)";
    }
}
echo "</td></tr>";
echo "</table>";
$query = "SELECT (b.availableSlots - COUNT(r.student_number)), b.batch_id, b.date, b.examTime, b.discussionTime, s.subjectName, e.deptNum,
b.term, b.sy, b.availableSlots, CASE e.deptNum WHEN 'first departmental' THEN 1 WHEN 'second departmental' THEN 2 WHEN 'third departmental'
THEN 3 WHEN 'fourth departmental' THEN 4 WHEN 'fifth departmental' THEN 5 WHEN 'sixth departmental' THEN 6 WHEN 'seventh departmental' THEN 7
END AS deptNumInt FROM batch AS b, subject AS s, exam AS e LEFT JOIN registration AS r ON (b.batch_id=r.batch_id) WHERE
s.subject_id=e.subject_id AND b.examination_id=e.examination_id AND b.accessibility='open' ";
if($displayRegistered){
    $query .= "AND r.student_number=' $username' ";
}
if($batchSubject != ""){
    $query .= "AND e.subject_id=' $batchSubject' ";
}
else{
    if(!($displayRegistered)&&($subject != "")){
        $query .= "AND e.subject_id=' $subject' ";
    }
}
$query .= "GROUP BY b.batch_id ORDER BY b.sy ASC, b.term ASC, deptNumInt ASC, b.date ASC ";
//echo "[ $query]";
$result = mysql_query($query);
$numOfBatchScheduleDisplayed = 0;
if(mysql_num_rows($result) > 0){
    while($myrow = mysql_fetch_row($result)){
        //remove batch_id's with 'answer sheets'
        $queryAnswerSheets = "SELECT student_number FROM answer WHERE batch_id=' $myrow[1]' LIMIT 1 ";
        $resultAnswerSheets = mysql_query($queryAnswerSheets);
        if(($activeTab == "Exam Schedule")&&(mysql_num_rows($resultAnswerSheets) > 0)){
            continue;
        }
        //check student's registration in the current batch_id
        $queryA = "SELECT authorization, registrationDate FROM registration WHERE batch_id=' $myrow[1]' AND student_number=' $username' ";
        $resultA = mysql_query($queryA);
        if(mysql_num_rows($resultA) > 0){
            if($displayRegistered){
                continue;
            }
            else{
                //check if student is about to take the exam...
                $myrowA = mysql_fetch_row($resultA);
                if(($myrowA[0] == "yes")&&($activeTab != "Take Exam")){
                    continue;
                }
            }
        }
        $numOfBatchScheduleDisplayed++;
        if($numOfBatchScheduleDisplayed == 1){
            echo "<div style='height:auto; width:100%; overflow:scroll;'>";
            echo "<form name='editCancelBatchScheduleForm' action='?activenav=$activenav&activeTab=$activeTab&subject=$subject' method='POST'
style='display:inline;'>";
            echo "<table id='examBatchScheduleTable' border='1' width='100%'>";
            if($displayRegistered){
                $examBatchScheduleColumnNames = array('&nbsp;', 'Priority Listing', 'Batch Id', 'Date', 'Exam Time', 'Discussion Time', 'Subject',
'Departmental', 'Term', 'School Year', 'Remaining Slots', 'Priority Table');
            }
            else{
                $examBatchScheduleColumnNames = array('&nbsp;', 'Status', 'Batch Id', 'Date', 'Exam Time', 'Discussion Time', 'Subject',
'Departmental', 'Term', 'School Year', 'Remaining Slots', 'Priority Table');
            }
            echo "<tr>";
            for($i = 0; $i < count($examBatchScheduleColumnNames); $i++){
                echo "<td align='center'>$examBatchScheduleColumnNames[$i]</td>";
            }
            echo "</tr>";
        }
        $trBgColor = "";
        $statusMessage = "OPEN";
        if($displayRegistered){
            //determine if CANCELLED...
            $resultA = mysql_query($queryA);
            $myrowA = mysql_fetch_row($resultA);
            $currentRegisteredBatchIsCancelled = false;
            if($myrowA[1] == "0000-00-00 00:00:00"){
                $trBgColor = "bgcolor='#FF8080' ";
                $currentRegisteredBatchIsCancelled = true;
            }
        }
        else{
            //determine if WAIT LISTED...
            $queryB = "SELECT student_number FROM registration WHERE batch_id=' $myrow[1]' ORDER BY registrationDate ASC ";
            $resultB = mysql_query($queryB);
            $spn = "0";
            $total = mysql_num_rows($resultB);
            while($myrowB = mysql_fetch_row($resultB)){
                if($myrowB[0] == $username){
                    break;
                }
            }
            $spn++;
        }
    }
}

```



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    }
  }
  else(
    //check if BATCH is not a duplicate of the student's registered exam...
    $queryA = "SELECT e.subject_id, e.deptNum, b.term, b.sy FROM batch AS b, exam AS e WHERE b.batch_id=' $myrow[0]' AND
    b.exam_id=e.exam_id";
    $resultA = mysql_query($queryA);
    $myrowA = mysql_fetch_row($resultA);
    $queryA = "SELECT r.batch_id FROM registration AS r, batch AS b, exam AS e WHERE r.student_number=' $username' AND r.batch_id=b.batch_id
    AND b.exam_id=e.exam_id AND e.subject_id=' $myrowA[0]' AND e.deptNum=' $myrowA[1]' AND b.term=' $myrowA[2]' AND b.sy=' $myrowA[3]' ";
    $resultA = mysql_query($queryA);
    $setBatchScheduleToRegisterDisable = "";
    if(mysql_num_rows($resultA) > 0){
      $setBatchScheduleToRegisterDisable = "disabled=' disabled' ";
    }
    $setBatchScheduleToRegisterDisable = "";
    echo "<td align='center'><input type='button' id='buttonToLink' onClick='return setBatchScheduleToRegister(this.form, $myrow[0],
    $remainingSits)' onMouseOver='return cursorForButtonToLink(this)' $setBatchScheduleToRegisterDisable value=' register ' /></td>";
  }
  else(
    echo "<td align='center'><input type='button' id='buttonToLink' onClick='return setBatchScheduleToRegister(this.form, $myrow[0],
    $remainingSits)' onMouseOver='return cursorForButtonToLink(this)' value=' register ' /></td>";
  )
  echo
  align="center">$myrow[0]</td><td>. reformatDateForDisplay($myrow[2]). "</td><td>. reformatTimeForDisplay($myrow[3]). "</td><td>. reformatTimeForD
  isplay($myrow[4]). "</td><td align="center">$remainingSits</td><td align="center">$myrow[7]</td><td align="center">$myrow[8]</td></tr>";
  }
  if($numOfDisplayedBatch > 0){
    echo "<input type='hidden' name='batchScheduleIdToUnregisterH' value=' ' />";
    echo "<input type='hidden' name='batchScheduleIdToRegisterH' value=' ' />";
    echo "</form>";
    echo "</table><br>";
    echo "</td></tr>";
  }
  else(
    echo "<tr><td align='center'>no records</td></tr>";
  )
  echo "</table>";
}
////////////////////////////////////
function take_Exam(){
  foreach($GLOBALS as $key=>$value){
    //print "\$GLOBALS['$key'] == $value<br>";
    if (ereg("[a-z]", $key[0], $array )){
      //print "\$GLOBALS['$key'] == $value<br>";
      global $$key;
    }
  }
  connect_Db();
  if(($violation != "") && ($offense != "")){
    $query = "UPDATE registration SET status=' $violation', offense=' $offense' WHERE batch_id=' $batchIdToBlock' AND student_number=' $username' ";
    $result = mysql_query($query);
    echo "error: the EXAMINATION window was closed. <br><br>";
  }
  echo "<form name=' administratorBatchSchedule' action=' ?activeNav=activeNav&activeTab=activeTab' method=' POST' >";
  echo "<input type='hidden' name='batchIdToBlock' value=' ' />";
  echo "<input type='hidden' name='violation' value=' ' />";
  echo "<input type='hidden' name='offense' value=' ' />";
  echo "<input type='submit' name='reload' value=' reload this page' >";
  echo "</form>";
  //display important reminders when taking the exam...
  echo "<table width='100%'>";
  echo "<tr><td align='center'>IMPORTANT GUIDELINES WHEN TAKING THE EXAM</td></tr>";
  echo "<tr><td>";
  echo "<span style=' font-size: 75%; '>";
  echo "<ol>";
  echo "<li>During the examination (that is when the 'EXAMINATION WINDOW' is displayed and the EXAM ITEMS are displayed) an examinee SHOULD NOT
  close the 'STUDENT MODULE WINDOW' or the 'EXAMINATION WINDOW'. Closing either window is prohibited. Any examinee who violated this rule will be
  BLOCKED from taking the exam. The examinee may close the 'EXAMINATION WINDOW' using the EXIT BUTTON found at the top right corner.</li>";
  echo "<li>During the examination (that is when the 'EXAMINATION WINDOW' is displayed and the EXAM ITEMS are displayed) an examinee SHOULD NOT
  perform actions that would cause the 'EXAMINATION WINDOW' to lose focus. A window loses focus when a NEW window is brought on TOP of it (or
  when a NEW window gains focus).";
  echo "<br>Please AVOID doing the following:";
  echo "<ul>";
  echo "<li>opening another application/program. i.e. opening 'Windows Explorer' </li>";
  echo "<li>pressing ALT-TAB</li>";
  echo "<li>inserting DISKETTES, CD-ROMS and FLASH DRIVES, adding additional hardware may trigger some 'HARDWARE DETECTION MESSAGES' </li>";
  echo "</ul>";
  echo "</li>";
  echo "<li>The keyboard diagram below displays the PROHIBITED KEYS colored in RED. Please refrain from using the indicated KEYS. Examinees who
  are BLOCKED upon violating this rule should report to the attending ADMINISTRATOR.</li>";
  echo "<li>The resumption of the EXAMINATION of a VIOLATING examinee is based on the ADMINISTRATOR's discretion.</li>";
  echo "</ol>";
  echo "</span>";
  echo "</td></tr>";
  echo "</table>";
  echo "<br>";
  $query = "SELECT e.subject_id FROM batch AS b, registration AS r, exam AS e WHERE b.batch_id=r.batch_id AND b.exam_id=e.exam_id AND
  r.student_number=' $username' AND b.accessibility='open' ";
  $result = mysql_query($query);
  if(mysql_num_rows($result) > 0){
    echo "<table width='100%'>";
    echo "<tr><td align='center'>LIST OF REGISTERED EXAM SCHEDULES</td></tr>";
    echo "</table>";
    while($myrow = mysql_fetch_row($result)){
      displayBatchPerSubject($myrow[0]);
      echo "<br>";
    }
  }
  else(
    echo "<table width='100%'>";
    echo "<tr><td align='center'>LIST OF REGISTERED EXAM SCHEDULES</td></tr>";
    echo "<tr><td align='center'>no record</td></tr>";
    echo "</table>";
  )
}
////////////////////////////////////
function manage_My_Account(){
  foreach($GLOBALS as $key=>$value){
    if (ereg("[a-z]", $key[0], $array )){
      global $$key;
    }
  }
  connect_Db();
  if($studentAccountSubmit == "update"){
    $query = "UPDATE student SET mobilePhone=' $mobilePhone', landPhone=' $landPhone', email=' $email' WHERE student_number=' $username' ";
    $result = mysql_query($query);
    echo "message: the update was successful. <br><br>";
  }
  $query = "SELECT * FROM student WHERE student_number=' $username' ";
  $result = mysql_query($query);
  $myrow = mysql_fetch_row($result);
  echo "<form name=' studentAccountForm' method=' POST' action=' ' style=' display: inline' >";
  echo "<table border=' 1' >";
  echo "<tr><td>student number</td><td>$myrow[0]</td></tr>";
  echo "<tr><td>name</td><td>$myrow[1] $myrow[2] $myrow[3]</td></tr>";
  echo "<tr><td>course</td><td>$myrow[4]</td></tr>";
  echo "<tr><td>college</td><td>$myrow[5]</td></tr>";
}

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case 6:
    color = "red";
    secs = 500;
    break;
case 7:
    color = "green";
    secs = 500;
    break;
case 8:
    color = "yellow";
    secs = 500;
    break;
default:
    color = "white";
    secs = 1;
    break;
}
document.getElementById(animateUsingToesColorsElement).style.color = color;
animateUsingToesColorsInterval = setInterval(animateUsingToesColors, secs);
}
//-----/
var popupExam = null;
var intervalID = 0;
var exitClearance = 0;
function openExam(examUrl, batch_id){
    if(!popupExam || popupExam.closed){
        eval("popupExam = window.open('"+ examUrl + "',' popupExam',' WIDTH="+ screen.width + ", HEIGHT="+ screen.height + "');");
        intervalID = setInterval(notifyExamWindow, 1);
        document.administerBatchSchedule.batchIdToBlock.value = batch_id;
        document.cookie = 'batchIdToBlock=' + batch_id + '';
        exitClearance = 0;
    }
    else{
        popupExam.focus();
    }
}
function runSetIntervalFromPopup(){
    intervalID = setInterval(notifyExamWindow, 1);
}
function bringExamToFront(examWindowRef){
    examWindowRef.focus();
}
function notifyExamWindow(){
    if(popupExam.closed){
        if(exitClearance == 0){
            popupExam = null;
            if(document.administerBatchSchedule.batchIdToBlock.value == ""){
                //this fixes firefox issues with the 'batchIdToBlock' turning into NULL...
                document.administerBatchSchedule.batchIdToBlock.value = getCookie("batchIdToBlock");
            }
            document.administerBatchSchedule.violation.value = "blocked";
            document.administerBatchSchedule.offense.value = "TOES blocked you because the EXAMINATION window was closed.";
            //alert("The EXAM window was closed.");
            document.administerBatchSchedule.submit();
        }
        if(intervalID){
            clearInterval(intervalID);
            intervalID = 0;
        }
    }
}
function getCookie(cookieName){
    var cookieStr = document.cookie;
    var cookieArray = cookieStr.split(";");
    for(var i = 0; i < cookieArray.length; i++){
        var tempArray = cookieArray[i].split("=");
        if(tempArray[0] == cookieName){
            return tempArray[1];
        }
    }
    return "";
}
//-----/
function loginFormCheck(currentForm){
    if((currentForm.studNumA.value == "") && (currentForm.studNumB.value == "")){
        alert("error: please include your student number");
        return false;
    }
    if((currentForm.studNumA.value == "") || (currentForm.studNumB.value == "")){
        alert("error: please complete your student number");
        return false;
    }
    var re = /\d\d\d\d\d/;
    if(currentForm.studNumA.value.search(re) == -1){
        alert("error: invalid student number");
        currentForm.studNumA.select();
        return false;
    }
    var re = /\d\d\d\d\d\d/;
    if(currentForm.studNumB.value.search(re) == -1){
        alert("error: invalid student number");
        currentForm.studNumB.select();
        return false;
    }
    if(currentForm.password.value == ""){
        alert("error: please include your password");
        return false;
    }
    currentForm.username.value = currentForm.studNumA.value + "-" + currentForm.studNumB.value;
    return true;
}
function newTutorialRequestSubject(currentForm){
    currentForm.submitMode.value = "eventListener";
    currentForm.submit();
}
function highlightSystemMessages(){
    document.body.innerHTML = highlightMessage(document.body.innerHTML, 'error:', '<br><br>', '#000000', '#FF8080');
    document.body.innerHTML = highlightMessage(document.body.innerHTML, 'message:', '<br><br>', '#000000', '#80FF80');
    document.body.innerHTML = highlightMessage(document.body.innerHTML, 'warning:', '<br><br>', '#000000', '#FFFF80');
}
function highlightMessage(bodyText, searchTermA, searchTermB, textColor, bgColor){
    var highlightStartTag = "<font style='color: " + textColor + "; background-color: " + bgColor + "; line-height: 1.1; '>";
    var highlightEndTag = "</font>";
    var newText = "";
    var i = -1;
    var j = -1;
    var iCbodyText = bodyText.toLowerCase();
    while(bodyText.length > 0){
        i = bodyText.indexOf(searchTermA, i+1);
        if(i < 0){
            newText += bodyText;
            bodyText = "";
        }
        else{
            // skip anything inside an HTML tag
            if(bodyText.lastIndexOf(">", i) >= bodyText.lastIndexOf("<", i)){
                // skip anything inside a <script> block
                if(iCbodyText.lastIndexOf("/script>", i) >= iCbodyText.lastIndexOf("<script", i)){

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//search for the closing term of the system message...
j = lcBodyText.indexOf(searchTermB, i + searchTermA.length);
if(j > 0){
    newText += bodyText.substring(0, i) + highlightStartTag + bodyText.substr(i, j - i) + highlightEndTag + bodyText.substr(j,
searchTermB.length);
    bodyText = bodyText.substr(j + searchTermB.length);
    j = -1;
}
else{
    newText += bodyText.substring(0, i) + bodyText.substr(i, searchTermA.length);
    bodyText = bodyText.substr(i + searchTermA.length);
}
lcBodyText = bodyText.toLowerCase();
i = -1;
}
}
}
return newText;
}
function window_Onload(activNav, activeTab){
    highlightSystemMessages();
    if(top != self){
        top.location = location;
    }
    switch(activNav){
        case 'My Tutorial':
            var newTutorialRequestSubmitBool = new Boolean(0);
            var addTutorialRequestBool = new Boolean(0);
            if(document.addTutorialRequestForm != null){
                for(var i = 0; i < document.addTutorialRequestForm.length; i++){
                    if(document.addTutorialRequestForm.elements[i].value == 'submit'){
                        newTutorialRequestSubmitBool = Boolean(1);
                    }
                    if(document.addTutorialRequestForm.elements[i].value == 'create new tutorial request'){
                        addTutorialRequestBool = Boolean(1);
                    }
                }
            }
            if((activeTab == 'Tutorial Request') && (newTutorialRequestSubmitBool && (document.addTutorialRequestForm.MondayH != null))){
                var weekDayArray = new Array("Monday", "Tuesday", "Wednesday", "Thursday", "Friday");
                dayTimeArray = new Array(5);
                dayTimeArray[0] = document.addTutorialRequestForm.MondayH.value;
                dayTimeArray[1] = document.addTutorialRequestForm.TuesdayH.value;
                dayTimeArray[2] = document.addTutorialRequestForm.WednesdayH.value;
                dayTimeArray[3] = document.addTutorialRequestForm.ThursdayH.value;
                dayTimeArray[4] = document.addTutorialRequestForm.FridayH.value;
                document.addTutorialRequestForm.prefDay.options.length = 0;
                var selectedIndex = 0;
                for(var i = 0; i < dayTimeArray.length; i++){
                    if(dayTimeArray[i] != ""){
                        document.addTutorialRequestForm.prefDay.options[selectedIndex] = new Option(weekDayArray[i], weekDayArray[i]);
                        selectedIndex++;
                    }
                }
                newTutorialRequestPrefDay();
            }
            break;
            default:
            break;
        }
    }
}
function newTutorialRequestPrefDay(){
    document.addTutorialRequestForm.prefTimeFrom.options.length = 0;
    document.addTutorialRequestForm.prefTimeTo.options.length = 0;
    dayTimeArray = new Array();
    dayTimeArray.Monday = document.addTutorialRequestForm.MondayH.value;
    dayTimeArray.Tuesday = document.addTutorialRequestForm.TuesdayH.value;
    dayTimeArray.Wednesday = document.addTutorialRequestForm.WednesdayH.value;
    dayTimeArray.Thursday = document.addTutorialRequestForm.ThursdayH.value;
    dayTimeArray.Friday = document.addTutorialRequestForm.FridayH.value;
    var prefTimeArray =
    dayTimeArray[document.addTutorialRequestForm.prefDay.options[document.addTutorialRequestForm.prefDay.selectedIndex].value].split(",");
    var lowest = "";
    var highest = "";
    for(var i = 0; i < prefTimeArray.length; i++){
        //alert(prefTimeArray[i]);
        var prefTimeArrayElem = prefTimeArray[i].split("-");
        if((lowest == "") && (highest == "")){
            lowest = prefTimeArrayElem[0];
            highest = prefTimeArrayElem[1];
        }
        else{
            //get lowest
            var timeA = prefTimeArrayElem[0].split(":");
            if(parseInt(timeA[0], 10) < parseInt(lowest.substring(0, lowest.indexOf(":")), 10)){
                lowest = prefTimeArrayElem[0];
            }
            if((parseInt(timeA[0], 10) == parseInt(lowest.substring(0, lowest.indexOf(":")), 10)) && (parseInt(timeA[1], 10) <
            parseInt(lowest.substring(lowest.indexOf(":")+1, 10)))){
                lowest = prefTimeArrayElem[0];
            }
            //get highest
            var timeB = prefTimeArrayElem[1].split(":");
            if(parseInt(timeB[0], 10) > parseInt(highest.substring(0, highest.indexOf(":")), 10)){
                highest = prefTimeArrayElem[1];
            }
            if((parseInt(timeB[0], 10) == parseInt(highest.substring(0, highest.indexOf(":")), 10)) && (parseInt(timeB[1], 10) >
            parseInt(highest.substring(highest.indexOf(":")+1, 10)))){
                highest = prefTimeArrayElem[1];
            }
        }
    }
    //alert("["+lowest+"]["+highest+"]");
    timeValArray = new Array();
    var timeValCurrent = lowest;
    timeValArray[timeValArray.length] = lowest;
    while(timeValCurrent != highest){
        //add 30 mins
        if((parseInt(timeValCurrent.substring(timeValCurrent.indexOf(":")+1, 10) + 30) == 60){
            timeValCurrent = eval("parseInt(timeValCurrent.substring(0, timeValCurrent.indexOf(":")), 10) + 1) + ":00";
        }
        else{
            timeValCurrent = timeValCurrent.substring(0, timeValCurrent.indexOf(":")) + ":30";
        }
        timeValArray[timeValArray.length] = timeValCurrent;
        //alert(timeValCurrent);
    }
    for(var i = 0; i < timeValArray.length; i++){
        if(i != timeValArray.length - 1){
            document.addTutorialRequestForm.prefTimeFrom.options[document.addTutorialRequestForm.prefTimeFrom.options.length] = new
            Option(timeConvertForDisplay(timeValArray[i]), timeValArray[i]);
        }
        if(i != 0){
            document.addTutorialRequestForm.prefTimeTo.options[document.addTutorialRequestForm.prefTimeTo.options.length] = new
            Option(timeConvertForDisplay(timeValArray[i]), timeValArray[i]);
        }
    }
}

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    }
    displayDayInDateFormat();
}
function timeConvertForDisplay(time){
    var timeArray = time.split("-");
    for(var i = 0; i < timeArray.length; i++){
        timeExt = 'AM';
        var timeArrayTemp = timeArray[i].split(":");
        if(timeArrayTemp[0].substring(0,1) == "0"){
            timeArrayTemp[0] = timeArrayTemp[0].substring(1,2);
        }
        if(timeArrayTemp[0] > 11){
            timeExt = 'PM';
        }
        if(timeArrayTemp[0] > 12){
            timeArrayTemp[0] = timeArrayTemp[0] - 12;
        }
        timeArray[i] = timeArrayTemp.join(":") + " " + timeExt;
    }
    return timeArray.join("-");
}
function sendRequestToCancel(requestIdToCancel){
    if(confirm("Are you sure you want to cancel this request?")){
        document.cancelTutorialRequestForm.requestIdToCancelH.value = requestIdToCancel;
        document.cancelTutorialRequestForm.submit();
    }
}
function sendRequestToJoin(requestIdToJoin){
    if(confirm("Are you sure you want to join this request?")){
        document.joinTutorialRequestForm.requestIdToJoinH.value = requestIdToJoin;
        document.joinTutorialRequestForm.submit();
    }
}
function displayDayInDateFormat(dateModifier){
    dayNameToNum = new Array();
    dayNameToNum["Monday"] = 1;
    dayNameToNum["Tuesday"] = 2;
    dayNameToNum["Wednesday"] = 3;
    dayNameToNum["Thursday"] = 4;
    dayNameToNum["Friday"] = 5;
    dayNumToName = new Array();
    dayNumToName[1] = "Monday";
    dayNumToName[2] = "Tuesday";
    dayNumToName[3] = "Wednesday";
    dayNumToName[4] = "Thursday";
    dayNumToName[5] = "Friday";
    switch(dateModifier){
        case 'prev':
            var prefDate = new Date();
            var prefDateArray = document.addTutorialRequestForm.prefDate.value.split("-");
            prefDate.setYear(parseInt(prefDateArray[0], 10));
            prefDate.setMonth(parseInt(prefDateArray[1], 10)-1);
            prefDate.setDate(parseInt(prefDateArray[2])-7);
            document.addTutorialRequestForm.dateModifierCounter.value = (parseInt(document.addTutorialRequestForm.dateModifierCounter.value) -
1).toString();
            if(document.addTutorialRequestForm.dateModifierCounter.value == "0"){
                document.addTutorialRequestForm.prefDayPrev.style.display = 'none';
            }
            else{
                document.addTutorialRequestForm.prefDayPrev.style.display = '';
            }
            break;
        case 'next':
            var prefDate = new Date();
            var prefDateArray = document.addTutorialRequestForm.prefDate.value.split("-");
            prefDate.setYear(parseInt(prefDateArray[0], 10));
            prefDate.setMonth(parseInt(prefDateArray[1], 10)-1);
            prefDate.setDate(parseInt(prefDateArray[2])+7);
            document.addTutorialRequestForm.dateModifierCounter.value = (parseInt(document.addTutorialRequestForm.dateModifierCounter.value) +
1).toString();
            if(document.addTutorialRequestForm.dateModifierCounter.value == "0"){
                document.addTutorialRequestForm.prefDayPrev.style.display = 'none';
            }
            else{
                document.addTutorialRequestForm.prefDayPrev.style.display = '';
            }
            break;
        default:
            var prefDate = new Date();
            var dayToday = prefDate.getDay();
            var prefDay = dayNameToNum[document.addTutorialRequestForm.prefDay[document.addTutorialRequestForm.prefDay.selectedIndex].text];
            //ensure 2 day preparation on before the prefDay, exclude Saturdays and Sundays
            for(var i = 0; i < 3; i++){
                prefDate.setDate(prefDate.getDate()+1);
                if((prefDate.getDay() == 6)|| (prefDate.getDay() == 0)){
                    i--;
                }
            }
            while(prefDate.getDay() != prefDay){
                prefDate.setDate(prefDate.getDate()+1);
            }
            document.addTutorialRequestForm.prefDayPrev.style.display = 'none';
            break;
    }
    document.addTutorialRequestForm.prefDateDisplay.value = prefDate.toLocaleDateString().substring(prefDate.toLocaleDateString().indexOf(",
")+2);
    var myDate;
    myDate = prefDate.getFullYear();
    if(prefDate.getMonth()+1 < 10){
        myDate = myDate+"-0"+(prefDate.getMonth()+1);
    }
    else{
        myDate = myDate+"-"+(prefDate.getMonth()+1);
    }
    if(prefDate.getDate()+1 < 10){
        myDate = myDate+"-0"+prefDate.getDate();
    }
    else{
        myDate = myDate+"-"+prefDate.getDate();
    }
    document.addTutorialRequestForm.prefDate.value = myDate;
    //get the request expiry date
}
function checkNewTutorialRequestDetails(currentForm){
    var newTutorialRequestBool = new Boolean(1);
    var myTutorialRequestArray = document.addTutorialRequestForm.myTutorialRequestString.value.split("[*]");
    var tutorialRequestToSubmit = document.addTutorialRequestForm.subject.value;
    var topicArray = new Array();
    //var topicArrayLength = 0;
    for(var i = 0; i < document.addTutorialRequestForm.elements.length; i++){
        if(document.addTutorialRequestForm.elements[i].name == "topic[*]"){
            if(document.addTutorialRequestForm.elements[i].checked){
                topicArray[topicArray.length] = parseInt(document.addTutorialRequestForm.elements[i].value);
                //topicArrayLength++;
            }
        }
    }
    if(topicArray.length > 0){
        tutorialRequestToSubmit = tutorialRequestToSubmit + "" + topicArray.join(",");
    }
}

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    }
    tutorialRequestToSubmit = tutorialRequestToSubmit + document.addTutorialRequestForm.prefDate.value;
    tutorialRequestToSubmit = tutorialRequestToSubmit + document.addTutorialRequestForm.prefTimeFrom.value + "-" +
    document.addTutorialRequestForm.prefTimeTo.value;
    for(var i = 0; i < myTutorialRequestArray.length; i++){
        if(myTutorialRequestArray[i] == tutorialRequestToSubmit){
            alert("error: You already requested this");
            newTutorialRequestBool = Boolean(0);
        }
    }
    if((newTutorialRequestBool)&&(verifyPrefTime())&&(verifyATopicsSelected())){
        //document.addTutorialRequestForm.submit();
        return true;
    }
    else{
        return false;
    }
}
function verifyATopicsSelected(){
    var currentForm = document.addTutorialRequestForm;
    for(var i = 0; i < currentForm.elements.length; i++){
        if(currentForm.elements[i].name == 'topic[]'){
            if(currentForm.elements[i].checked){
                return true;
            }
        }
    }
    alert("error: please choose atleast one topic");
    return false;
}
function verifyPrefTime(){
    var timeFrom = document.addTutorialRequestForm.prefTimeFrom.value;
    var timeTo = document.addTutorialRequestForm.prefTimeTo.value;
    if(!((parseInt(timeFrom.substring(0, timeFrom.indexOf(":"))) <= parseInt(timeTo.substring(0, timeTo.indexOf(":"))) && (parseInt(timeFrom.substring(0, timeFrom.indexOf(":")+1) <= parseInt(timeTo.substring(0, timeTo.indexOf(":")+1)))))){
        alert("error:\nInvalid time interval!");
        return false;
    }
    dayTimeArray = new Array();
    dayTimeArray.Monday = document.addTutorialRequestForm.MondayH.value;
    dayTimeArray.Tuesday = document.addTutorialRequestForm.TuesdayH.value;
    dayTimeArray.Wednesday = document.addTutorialRequestForm.WednesdayH.value;
    dayTimeArray.Thursday = document.addTutorialRequestForm.ThursdayH.value;
    dayTimeArray.Friday = document.addTutorialRequestForm.FridayH.value;
    var prefTimeArray = new Array();
    var cannotBeCombined = true;
    var
    dayTimeArray[document.addTutorialRequestForm.prefDay.options[document.addTutorialRequestForm.prefDay.selectedIndex].value].split(",");
    for(var i = 0; i < prefTimeTemp.length; i++){
        for(var j = 0; j < prefTimeArray.length; j++){
            if(prefTimeArray[j].substring(prefTimeArray[j].indexOf("-")+1) == prefTimeTemp[i].substring(0, prefTimeTemp[i].indexOf("-"))){
                prefTimeArray[j] = prefTimeArray[j].substring(0, prefTimeArray[j].indexOf("-")) + prefTimeTemp[i].substring(prefTimeTemp[i].indexOf("-")+1);
                cannotBeCombined = false;
                break;
            }
        }
        if(cannotBeCombined){
            prefTimeArray[prefTimeArray.length] = prefTimeTemp[i];
        }
    }
    for(var i = 0; i < prefTimeArray.length; i++){
        var timeVal = prefTimeArray[i].split("-");
        var upperLess = false;
        var lowerMore = false;
        if(parseInt(timeTo.substring(0, timeTo.indexOf(":")), 10) <= parseInt(timeVal[1].substring(0, timeVal[1].indexOf(":")), 10)){
            upperLess = true;
            //alert("passed upper");
        }
        if((parseInt(timeTo.substring(0, timeTo.indexOf(":")), 10) == parseInt(timeVal[1].substring(0, timeVal[1].indexOf(":")), 10))&&(parseInt(timeTo.substring(0, timeTo.indexOf(":")+1), 10) <= parseInt(timeVal[1].substring(0, timeVal[1].indexOf(":")+1), 10))){
            upperLess = true;
            //alert("passed upper");
        }
        if(parseInt(timeFrom.substring(0, timeFrom.indexOf(":")), 10) >= parseInt(timeVal[0].substring(0, timeVal[0].indexOf(":")), 10)){
            lowerMore = true;
            //alert("passed lower");
        }
        if((parseInt(timeFrom.substring(0, timeFrom.indexOf(":")), 10) == parseInt(timeVal[0].substring(0, timeVal[0].indexOf(":")), 10))&&(parseInt(timeFrom.substring(0, timeFrom.indexOf(":")+1), 10) >= parseInt(timeVal[0].substring(0, timeVal[0].indexOf(":")+1), 10))){
            lowerMore = true;
            //alert("passed lower");
        }
        if((upperLess)&&(lowerMore)){
            break;
        }
    }
    else{
        if(i == prefTimeArray.length - 1){
            var errorText = "error\n\n";
            errorText = errorText + "Please make sure that your preferred time\nis within one of these time intervals:\n\n";
            for(var j = 0; j < prefTimeArray.length; j++){
                errorText = errorText + "\n\t" + timeConvertForDisplay(prefTimeArray[j]);
            }
            alert(errorText);
            return false;
        }
    }
}
return true;
}
function sendTutorialIldToEnlist(tutorialIldToEnlist){
    document.enlistAvailableTutorialForm.tutorialIldToEnlistH.value = tutorialIldToEnlist;
    document.enlistAvailableTutorialForm.submit();
}
function sendTutorialIldToDelist(tutorialIldToDelist){
    if(confirm("You are about to cancel your enrollment from a 'Tutorial Schedule'\ndo you want to continue?")){
        document.delistAvailableTutorialForm.tutorialIldToDelistH.value = tutorialIldToDelist;
        document.delistAvailableTutorialForm.submit();
    }
    else{
        return true;
    }
}
function cursorForButtonToLink(currentElement){
    currentElement.style.cursor = "hand";
}
function setBatchScheduleToRegister(currentForm, batchScheduleToRegister, remainingSlots){
    if(remainingSlots > 0){
        currentForm.batchScheduleToRegisterH.value = batchScheduleToRegister;
        currentForm.submit();
    }
    else{
        if(confirm("The EXAM BATCH SCHEDULE you are registering is already full.\ndo you want to continue?")){
            currentForm.batchScheduleToRegisterH.value = batchScheduleToRegister;
            currentForm.submit();
        }
    }
}
}
}

```

```

function setBatchScheduleToUnregister(currentForm, batchScheduleIdToUnregister) {
    currentForm.batchScheduleIdToUnregister.value = batchScheduleIdToUnregister;
    currentForm.submit();
}

function studentPasswordCheck(currentForm) {
    if(currentForm.passwordNew.value.length < 8){
        alert("error: please use passwords of length 8 or more");
        currentForm.passwordNew.select();
        return false;
    }
    if(currentForm.passwordNewR.value.length < 8){
        alert("error: please use passwords of length 8 or more");
        currentForm.passwordNewR.select();
        return false;
    }
}

function setBatchIdResultToDisplay(batchId){
    document.batchIdResultToDisplayForm.batchIdResultToDisplay.value = batchId;
    document.batchIdResultToDisplayForm.submit();
}

function openPriorityTable(total, priority, pn){
    eval("optWindow = window.open('/toes/optPage.php?total=" + total + "&priority=" + priority + "&pn=" + pn + "','optWindow','WIDTH=" + (300) +
    ",HEIGHT=" + (screen.height * .5) + ",status,scrollbars');");
    keepWindowOnTop(optWindow);
}

function keepWindowOnTop(){
    optWindow.focus();
    window.setTimeout("keepWindowOnTop()", 1);
}

function keepWindowOnTopA(){
    if(window.setTimeout){
        clearTimeout(window.setTimeout());
    }
    if(optWindow != null){
        optWindow.focus();
        window.setTimeout("keepWindowOnTopA()", 1);
    }
}

function showHideReminders(currentElement){
    if(currentElement.value == "show reminders"){
        currentElement.value = "hide reminders";
        document.getElementById("remindersSpan").style.display = "";
    }
    else{
        currentElement.value = "show reminders";
        document.getElementById("remindersSpan").style.display = "none";
    }
}

```

H. TUTOR

tutor.php

```

<?php
session_start();
require_once('..toes.inc.php');
require_once('tutor_fcns.php');
if($firstVisit == "true"){
    $errorMessage = "";
}
$username;
$password;
if($Logout == '1'){
    session_unregister("username");
    session_unregister("password");
    session_unregister("hasLoggedIn");
    session_unregister("errorMessage");
    session_unregister("userScript");
    $Logout = 0;
    $hasLoggedIn = 0;
    $errorMessage = "";
    $returnToHomepage = true;
}
if(($Login)&&($Logout != '1')){
    authorized_User();
    session_register("hasLoggedIn");
    header("Location: " . 'http://'. $_SERVER["HTTP_HOST"] . $_SERVER["PHP_SELF"]);
}
if(($$_SESSION["hasLoggedIn"] == '1')&&($_SESSION["userScript"] == 'tutor.php')){
    if($activeNav == ""){
        $activeNav = "My Schedule";
    }
    print_Top_Nav();
    print_Banner();
    print_Nav();
    print_Tab();
    print_Body();
    print_Footer();
}
else{
    if($hasLoggedIn == '2'){
        //echo "errorMessage";
        //echo "<br>";
    }
    display_Login_Form();
}
////////////////////////////////////
function print_Top_Nav(){
    print("<html>");
    print("<head>");
    print("<title>TUTOR Module</title>");
    echo "<SCRIPT LANGUAGE= JavaScript SRC='tutor_JavaScript.js'></SCRIPT>";
    print("<link rel='stylesheet' type='text/css' href='tutor_Style.css' />");
    print("</head>");
    print("<body onload='window.onload(' $activeNav', ' $activeTab')'>");

    print("<div>");
    print("<ul class='topnav'>");
    print("<li><a href='./custhelp.php?statpos=topnav'>Help</a></li>");
    print("<li class='lastli'><a href='?Logout=1'>Log Out</a></li>");
    print("</ul>");
    print("</div>");
    print("<br>");
}
////////////////////////////////////
function print_Banner(){
    global $username;
    echo "<div class='banner'>";
    echo "<table>";
    echo "<tr><td height='100px' width='382px' background='./toes/files/pics/toes_logo.jpg'></td>";
}

```

```

        echo "<td height='100px' width='200px' background='/toes/files/pics/main-page_logos_upm_lrc.gif'></td>";
        echo "<td height='100px' width='382px' background='/toes/files/pics/tutor.gif' align='center' bottom:10px;><font style='vertical-align: text-bottom; font-size: 4px; color=' #808080'>Surname</font></td>";
        echo "</tr></table>";
        echo "</div>";
    }
    ////////////////////////////////////////////////////
    function print_Nav(){
        global $activeNav;
        global $activeTab;
        print("<div id='nav'><div><ul>");
        if($activeNav == 'My Schedule'){
            print("<li class='navselected'>");
            el se
            print("<li>");
            print("<a href='?activeNav=My Schedule&activeTab='>My Schedule</a></li>");
            if($activeNav == 'My Account'){
                print("<li class='navselected'>");
                el se
                print("<li class='lastli'>");
                print("<a href='?activeNav=My Account&activeTab='>My Account</a></li>");
                print("&nbsp;");
                print("</ul>");
                print("</div></div>");
                //print("<br>");
                echo "<div style='background-color: FFFFFF; font-size: 75%;'>&nbsp;</div>";
            }
            ////////////////////////////////////////////////////
            function print_Tab(){
                global $activeNav;
                global $activeTab;

                print("<div id='content'>");
                print("<ul class='tabs'>");

                swit ch($activeNav){
                    case 'My Schedule':
                        if($activeTab == ''){
                            $activeTab = 'My Tutorials';
                        }
                        if($activeTab == 'My Tutorials'){
                            print("<li class='tabselected'>My Tutorials</li>");
                        }
                        el se
                        print("<li><a href='?activeNav=$activeNav&activeTab=My Tutorials'>My Tutorials</a></li>");
                    if($activeTab == 'My Subjects'){
                        print("<li class='tabselected'>My Subjects</li>");
                    }
                    el se
                    print("<li><a href='?activeNav=$activeNav&activeTab=My Subjects'>My Subjects</a></li>");
                    if($activeTab == 'My Freetime'){
                        print("<li class='tabselected'>My Freetime</li>");
                    }
                    el se
                    print("<li><a href='?activeNav=$activeNav&activeTab=My Freetime'>My Freetime</a></li>");
                    break;
                case 'My Account':
                    if($activeTab == ''){
                        $activeTab = 'View My Account';
                    }
                    if($activeTab == 'View My Account'){
                        print("<li class='tabselected'>View My Account</li>");
                    }
                    el se
                    print("<li><a href='?activeNav=$activeNav&activeTab=View My Account'>View My Account</a></li>");
                    if($activeTab == 'Change Password'){
                        print("<li class='tabselected'>Change Password</li>");
                    }
                    el se
                    print("<li><a href='?activeNav=$activeNav&activeTab=Change Password'>Change Password</a></li>");
                    break;
                default:
                    break;
            }
            print("</ul>");
        }
        ////////////////////////////////////////////////////
        function print_Body(){
            print("<div class='content'>");
            print("<div class='inside'>");
            //print("<div class='insidebody'>");

            print_Function();

            //print("</div>");
            print("</div>");
            print("</div>");
        }
        ////////////////////////////////////////////////////
        function print_Function(){
            global $activeNav;
            global $activeTab;
            if($activeNav == ''){
                print("Please select from the menu");
            }
            el se{
                swit ch($activeTab){
                    case 'My Tutorials':
                        view_My_Tutorials();
                        break;
                    case 'My Subjects':
                        manage_Tutored_Subjects();
                        break;
                    case 'My Freetime':
                        manage_Tutor_Schedule();
                        break;
                    case 'View My Account':
                        view_Account();
                        break;
                    case 'Change Password':
                        manage_Password();
                        break;
                    default:
                        print("Please select from the tabbed-menu");
                        break;
                }
            }
        }
        ////////////////////////////////////////////////////
        function print_Footer(){
            print("<div>");
            print("<div id='footer'>");
            print("<div>University of the Philippines Manila, Learning Resource Center</div>");
            print("<div>Tutorial and Online Examination System (TOES)</div>");
            print("<div>Copyright © 2006</div>");
            print("</div>");
            print("<div style='width: 780px'>&nbsp;</div>");
            print("</div>");
            print("</div>");
            echo "<div style='background-color: #008000'>&nbsp;</div>";
            print("</body>");
            print("</html>");
        }
    }

```

```

////////////////////////////////////
function toHtml ($html Line){
    return (str_replace("\n","\\n", $html Line));
}
////////////////////////////////////
function authorized_User(){
    global $username;
    global $password;
    global $errorMessage;
    global $hasLoggedIn;
    global $userScript;

    connect_Db();
    $query = "SELECT * FROM tutor where username=' $username' and password=' $password' ";
    $result = mysql_query($query);
    $myrow = mysql_fetch_array($result);

    if(($username != NULL)&&($password != NULL)&&($myrow[username] == $username)&&($myrow[password] == $password)){
        $hasLoggedIn=1;
        session_register("hasLoggedIn");
        session_register("username");
        session_register("password");
        $userScript= 'tutor.php';
        session_register("userScript");
    }
    else{
        if(($username == NULL)||($password == NULL)){
            $errorMessage = "error: Please enter your username and password!";
        }
        else{
            $errorMessage = "error: Invalid username or password!";
        }

        session_register("errorMessage");
        $hasLoggedIn=2;
        session_register("hasLoggedIn");
    }
}
////////////////////////////////////
function display_Login_Form(){
    global $username;
    global $password;
    global $hasLoggedIn;
    global $Logout;
    global $errorMessage;
    global $returnToHomepage;

    echo "<html style='background-image: url(\"/toes/files/pics/toes_logo_userLogin.j pg\");' >";
    echo "<head>";
    echo "<title>TUTOR Login Page</title>";
    echo "<SCRIPT LANGUAGE='JavaScript' SRC='tutor_JavaScript.js' ></SCRIPT>";
    echo "</head>";
    if($returnToHomepage){
        echo "<body onLoad='window.location=\"/toes/\" >";
    }
    else{
        echo "<body onLoad='animateUsingToesColors(\"toesHomeLink\"); >";
    }
    echo "<table width='100%' height='100%' border='0' cellpadding='0' cellspacing='0' >";
    echo "<tr><td valign='middle' align='center' >";
    echo "<table align='center' border='0' cellpadding='0' cellspacing='0' >";
    echo "<tr><td align='right' bgcolor='#FF0000' ><a id='toesHomeLink' href='/toes/' style='color:white;text-decoration:none;' >back to TOES
home page</a></td><td align='center' ><a href='/toes/index.php' title='home' >img src='/toes/files/pics/toes.gif' style='border: 0 none;' /></td></tr>";
    echo "<tr><td align='center' ><img src='/toes/files/pics/tutor_o_gi f' /></td></tr>";
    echo "<tr><td align='center' bgcolor='#FF0000' ></td></tr>";
    //echo "[username=$username][password=$password][hasLoggedIn=$hasLoggedIn][Logout=$Logout][userScript=$userScript]";
    print("<table border='0' >";
    print("<form name='loginForm' method='post' action='PHP_SELF' onSubmit='return loginFormCheck(this)' >";
    if($errorMessage != ""){
        echo "<tr><td colspan='2' >$errorMessage</td></tr>";
    }
    echo "<tr><td>Username:</td><td><input type='text' name='username' maxLength='16' size='16' /></td></tr>";
    echo "<tr><td>Password:</td><td><input type='password' name='password' maxLength='16' size='16' /></td></tr>";
    print("<tr><td colspan='2' align='center' ><input type='submit' name='Login' value='Login' /></td></tr>");
    print("</form>");
    print("</table>");
    echo "</td></tr>";
    echo "<tr><td bgcolor='#FF0000' >&nbsp;</td></tr>";
    echo "</td></tr></table>";
    echo "</body>";
    echo "</html>";
}
////////////////////////////////////
function refresh_Page($location){
    header("Location: $location");
}
////////////////////////////////////
function connect_Db() {
    //$dbuser = " ";
    //$dbpassword = " ";
    //$dbhost = 'localhost';
    //$dbname = 'eav';
    //$db_connection = mysql_connect ($dbhost, $dbuser, $dbpassword);
    //$mysql_select_db ($dbname);
    $db = mysql_connect("localhost", "");
    mysql_select_db("toes", $db);
}
////////////////////////////////////
?>

tutor_Fcns.php

<?php
////////////////////////////////////
function view_Account(){
    foreach($GLOBALS as $key=>$value){
        if (ereg("[a-z]", $key[0], $array ) ){
            global $$key;
        }
    }

    connect_Db();
    if($tutorAccountSubmit == "update"){
        $query = "UPDATE tutor SET mobilePhone=$mobilePhone, landPhone=$landPhone, email=$email WHERE username=$username AND
password=$password ";
        $result = mysql_query($query);
        echo "message: the update was successful I.<br><br>";
    }
    $query = "SELECT * FROM tutor where username=' $username' and password=' $password' ";
    $result = mysql_query($query);
    $myrow = mysql_fetch_row($result);
    echo "<table border='1' >";
    echo "<form name='tutorAccountForm' method='POST' action='' >";
    echo "<tr><td>name</td><td>$myrow[1] $myrow[2] $myrow[3]</td></tr>";
    echo "<tr><td>birthday</td><td>$myrow[4]</td></tr>";
    echo "<tr><td>mobile phone</td><td><input type='text' name='mobilePhone' maxLength='15' size='15' value=' $myrow[7]' /></td></tr>";
    echo "<tr><td>land phone</td><td><input type='text' name='landPhone' maxLength='15' size='15' value=' $myrow[8]' /></td></tr>";
}

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echo "<tr><td>email</td><td><input type='text' name='email' value='\$myrow[9]'/></td></tr>";
if(\$myrow[10] == "f"){
    $queryA = "SELECT departmentName FROM upm_departments WHERE department_id='\$myrow[11]' ";
    $resultA = mysql_query($queryA);
    $myrowA = mysql_fetch_row($resultA);
    echo "<tr><td>department</td><td>\$myrowA[0]</td></tr>";
}
else{
    $queryA = "SELECT degreeProgramName FROM degree_programs WHERE degreeProgram_id='\$myrow[11]' ";
    $resultA = mysql_query($queryA);
    $myrowA = mysql_fetch_row($resultA);
    echo "<tr><td>course</td><td>\$myrowA[0]</td></tr>";
}
echo "<tr><td colspan='2' align='center'><input type='submit' name='tutorAccountSubmit' value='update' /><button type='reset' name='reset'
value='reset'>reset</button></td></tr>";
echo "</form>";
echo "</table>";
}
////////////////////////////////////
function manage_Password(){
    foreach($GLOBALS as $key=>$value){
        if (ereg("[a-z]", $key[0], $array )){
            global $$key;
        }
    }
    if($tutorPasswordSubmit == "change"){
        connect_Db();
        if($password != $passwordOld){
            echo "error: the supplied 'old password' does not match the one stored in the database.<br><br>";
        }
        else{
            if($passwordNew != $passwordNewR){
                echo "error: the 'new password' and the 'retyped new password' does not match.<br><br>";
            }
            else{
                $query = "UPDATE tutor SET password='\$passwordNew', username='\$usernameNew' WHERE username='\$username' AND password='\$password' ";
                $result = mysql_query($query);
                if($username != $usernameNew){
                    echo "message: the 'new username' was successfully stored.<br><br>";
                }
                echo "message: the 'new password' was successfully stored.<br><br>";
                $username = $usernameNew;
                $password = $passwordNew;
                session_register("username");
                session_register("password");
            }
        }
    }
    echo "<table border='1' >";
    echo "<tr><td colspan='2' align='center'><input type='submit' name='tutorPasswordSubmit' value='change' /></td></tr>";
    echo "<tr><td colspan='2' align='center'><input type='submit' name='tutorPasswordSubmit' value='change' /></td></tr>";
    echo "</table>";
}
////////////////////////////////////
function manage_Tutored_Subjects(){
    foreach($GLOBALS as $key=>$value){
        if (ereg("[a-z]", $key[0], $array )){
            global $$key;
        }
    }
    connect_Db();
    if($editTutorTutoredSubjects == 'save'){
        $tutoredSubjStr = implode(",",$tutoredSubj);
        $query = "UPDATE tutor SET tutoredSubject='\$tutoredSubjStr' WHERE username='\$username' AND password='\$password' ";
        $result = mysql_query($query);
        echo "message: The tutored subject list was successfully updated.<br><br>";
    }
    if(!isset($tutoredSubj)){
        $query = "SELECT tutoredSubject FROM tutor WHERE username='\$username' AND password='\$password' ";
        $result = mysql_query($query);
        $myrow = mysql_fetch_row($result);
        if($myrow[0] != ""){
            $tutoredSubj = explode(",",$myrow[0]);
        }
        else{
            unset($tutoredSubj);
        }
    }
    echo "<table style='border-bottom:0px;' border='1' width='50%'>";
    echo "<tr><td colspan='2' align='center'>My Tutored Subjects</td></tr></table>";
    echo "<div style='height: 200px; width: 50%; overflow: auto;'>";
    echo "<table style='border-top:0px; border-bottom:0px;' border='1' width='100%'>";
    $query = "SELECT * FROM subject ORDER BY subjectName";
    $result = mysql_query($query);
    echo "<tr><td><td align='center'>Subject name</td><td align='center'>Subject description</td></tr>";
    while($myrow = mysql_fetch_row($result)){
        $isCheckedPreviously = 0;
        if(!isset($tutoredSubj)){
            if(in_array($myrow[0], $tutoredSubj)){
                $isCheckedPreviously = 1;
            }
        }
        if($isCheckedPreviously == 1){
            echo "<tr><td><input type='checkbox' name='tutoredSubj []' value='\$myrow[0]'
checked='checked' /></td><td>\$myrow[1]</td><td>\$myrow[2]</td></tr>";
        }
        else{
            echo "<tr><td><input type='checkbox' name='tutoredSubj []' value='\$myrow[0]' /></td><td>\$myrow[1]</td><td>\$myrow[2]</td></tr>";
        }
    }
    echo "</table>";
    echo "</div>";
    echo "<table border='1' width='50%'><tr><td align='center'><input type='submit' name='editTutorTutoredSubjects' value='save'></tr></table>";
    echo "</form>";
}
////////////////////////////////////
function manage_Tutor_Schedule(){
    foreach($GLOBALS as $key=>$value){
        if (ereg("[a-z]", $key[0], $array )){
            global $$key;
        }
    }
    connect_Db();
    $query = "SELECT tutor_id FROM tutor WHERE username='\$username' AND password='\$password' ";
    $result = mysql_query($query);
    $myrow = mysql_fetch_row($result);
    $tutor_id = $myrow[0];
    if($editTutorTutorSchedule == 'edit'){
        $query = "SELECT * FROM tutor_schedule WHERE tutor_schedule_id='\$tutorSchedule_id' ";
        $result = mysql_query($query);
        $myrow = mysql_fetch_row($result);
        $tutorSchedule_id = $myrow[0];
        $preFTIMEArray = explode("-", $myrow[3]);
    }
}

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$prefTimeFrom = $prefTimeArray[0];
$prefTimeTo = $prefTimeArray[1];
$day = explode(" ", $myrow[2]);
}
if($editTutorTimeSchedule == 'delete'){
    connect_Db();
    $query = "DELETE from tutor_schedule WHERE tutorSchedule_e_id=' $tutorSchedule_e_id' ";
    $result = mysql_query($query);
    unset($day);
    unset($tutorSchedule_e_id);
    unset($prefTimeFrom);
    unset($prefTimeTo);
    echo "message: the old timeslot was successfully deleted!<br><br>";
}
if(($editTutorTimeSchedule == 'add') || ($editTutorTimeSchedule == 'apply changes')){
    //check if new OR edited time conflicts with existing ones
    connect_Db();
    $noConflictFound = true;
    $a = str_replace(":", "", $prefTimeFrom);
    $b = str_replace(":", "", $prefTimeTo);
    if($a >= $b){
        echo "error: invalid time interval [$prefTimeFrom-$prefTimeTo].<br><br>";
        $noConflictFound = false;
    }
    else{
        for($i = 0; $i < count($day); $i++){
            if(isset($tutorSchedule_e_id)){
                $query = "SELECT prefTime FROM tutor_schedule WHERE prefDay LIKE '%$day[$i]%' AND tutor_id=' $tutor_id' AND
                tutorSchedule_e_id=' $tutorSchedule_e_id' ";
            }
            else{
                $query = "SELECT prefTime FROM tutor_schedule WHERE prefDay LIKE '%$day[$i]%' AND tutor_id=' $tutor_id' ";
            }
            $result = mysql_query($query);
            while($myrow = mysql_fetch_row($result)){
                $tempArray = explode("-", $myrow[0]);
                $c = str_replace(":", "", $tempArray[0]);
                $d = str_replace(":", "", $tempArray[1]);
                unset($tempArray);
                if(($c < $a) && ($a < $d)) || (($c < $b) && ($b < $d)) || (($a < $c) && ($c < $b)) || (($a < $d) && ($d < $b)) || (($a == $c) && ($b == $d)){
                    echo "error: the timeslot [$prefTimeFrom-$prefTimeTo $day[$i]] conflicts with an existing one.<br><br>";
                    $noConflictFound = false;
                    break;
                }
            }
            if(!$noConflictFound){
                break;
            }
        }
    }
    if($noConflictFound){
        if(count($day) == 0){
            echo "message: the day attribute in the submitted timeslot was missing.<br><br>";
        }
        else{
            $prefDay = implode(" ", $day);
            $prefTimeFrom = $prefTimeFrom;
            $prefTimeTo = $prefTimeTo;
            if(isset($tutorSchedule_e_id) && ($tutorSchedule_e_id != "")){
                $query = "UPDATE tutor_schedule SET tutor_id=' $tutor_id', prefDay=' $prefDay', prefTime=' $prefTime' WHERE
                tutorSchedule_e_id=' $tutorSchedule_e_id' ";
                $result = mysql_query($query);
                echo "message: the old timeslot was successfully edited!<br><br>";
            }
            else{
                $nextId = getNextId('tutorSchedule_e_id', 'tutor_schedule');
                $query = "INSERT INTO tutor_schedule VALUES (' $nextId', ' $tutor_id', ' $prefDay', ' $prefTime')";
                $result = mysql_query($query);
                echo "message: the new timeslot was successfully added!<br><br>";
            }
        }
    }
    $prefTimeFrom = "";
    $prefTimeTo = "";
    unset($day);
    unset($tutorSchedule_e_id);
}
$dayNameArray = array('Monday', 'Tuesday', 'Wednesday', 'Thursday', 'Friday');
echo "<table border='1' >";
echo "<form name='editTutorScheduleSubjects' action=' method=' POST' >";
echo "<input type='hidden' name='tutorSchedule_e_id' value=' $tutorSchedule_e_id' />";
echo "<tr><td align='center' colspan=' (3 + count($dayNameArray)).' >Timeslots</td></tr>";
echo "<tr><td align='center' colspan=' (3 + count($dayNameArray)).' >Timeslots</td></tr>";
foreach($dayNameArray AS $dayNameArrayElem){
    echo "<td align='center'>$dayNameArrayElem</td>";
}
echo "</tr>";
$query = "SELECT * FROM tutor_schedule WHERE tutor_id=' $tutor_id' ORDER BY prefTime ";
$result = mysql_query($query);
if(mysql_num_rows($result) > 0){
    while($myrow = mysql_fetch_row($result)){
        echo "<tr><td>";
        if($tutorSchedule_e_id == $myrow[0]){
            echo "edit";
        }
        else{
            echo "<a href=' javascript: void editTutorScheduleSubjectsJs(\"$edit\", \"$myrow[0]\") >edit</a>";
        }
        echo "&nbsp;";
        echo "<a href=' javascript: void editTutorScheduleSubjectsJs(\"$delete\", \"$myrow[0]\") >delete</a>";
        echo "</td>";
        $tempTimeStr = getTimeslotDisplay($myrow[3]);
        echo "<td>$tempTimeStr</td>";
        $tempArray = explode(" ", $myrow[2]);
        foreach($dayNameArray AS $dayNameArrayElem){
            if(in_array($dayNameArrayElem, $tempArray)){
                echo "<td align='center' ></td>";
            }
            else{
                echo "<td align='center' >&nbsp;</td>";
            }
        }
    }
}
else{
    echo "<tr><td colspan=' (3 + count($dayNameArray)).' align='center' >no records</td></tr>";
}
if(isset($tutorSchedule_e_id)){
    echo "<tr><td colspan=' (3 + count($dayNameArray)).' id=' tdWhiteBg' align='center' >* currently being edited</td></tr>";
}
else{
    echo "<tr><td colspan=' (3 + count($dayNameArray)).' id=' tdWhiteBg' align='center' >&nbsp;</td></tr>";
}
echo "<tr><td colspan=' (2 + count($dayNameArray)).' >from&nbsp;";
echo "<select name=' prefTimeFrom' >";
$timeDisplayMod = 'AM';
for($i = 8; $i < 18; $i++){
    if($i > 11){
        $timeDisplayMod = 'PM';
    }
}

```



```

if(strlen($timeslotArray[1]) == 6)
    $timeslotArray[1] = '0'. $timeslotArray[1];
}
return implode("-", $timeslotArray);
}
////////////////////////////////////
function view_My_Tutorials()
{
    foreach($GLOBALS as $key=>$value)
    {
        if (ereg("[a-z]", $key[0], $array )) {
            global $$key;
        }
    }
    echo "<table width='100%'>";
    echo "<tr><td align='center'>Current Tutorial Schedules</td></tr>";
    echo "</table>";
    connect_Db();
    $query = "SELECT DISTINCT(tutorial.tutorial_id), subject.subjectName, tutorial.topic, tutorial.date, tutorial.time, CONCAT(tutor.firstName, '
', tutor.middleName, ' ', tutor.lastName) AS tutorFullName, tutor.tutorType, tutor.deptCourse, a.student_number FROM subject, tutor, tutorial
LEFT JOIN attendance AS a ON (tutorial.tutorial_id=a.tutorial_id) WHERE tutorial.tutorial_id=tutor.tutor_id AND
tutorial.subject=subject.subject_id AND tutor.username=' $username' AND tutor.password=' $password' ";
    $result = mysql_query($query);
    if(mysql_num_rows($result) > 0){
        $currentTutorialCount = 0;
        while($myrow = mysql_fetch_row($result)){
            if($myrow[8] != ""){
                continue;
            }
            $currentTutorialCount++;
            if($currentTutorialCount == 1){
                echo "<div style='height:auto; width:100%; overflow:scroll;'>";
                $tutorialSchedulesTableColNames = array('Subject', 'Topic', 'Date', 'Time', 'Tutor', 'Course/Department');
                echo "<table id='tutorScheduleTable' width='100%' border='1'>";
                echo "<tr>";
                foreach($tutorialSchedulesTableColNames AS $tutorialScheduleTableColNamesElem){
                    echo "<td align='center'>$tutorialScheduleTableColNamesElem</td>";
                }
                echo "</tr>";
                echo "<tr><td>$myrow[1]</td>";
                echo "<td>";
                foreach(explode(" ", $myrow[2]) AS $topicArrayElem){
                    $queryA = "SELECT topicName FROM topic WHERE topic_id=' $topicArrayElem' ";
                    $resultA = mysql_query($queryA);
                    $myrowA = mysql_fetch_row($resultA);
                    echo "<td>$myrowA[0]<br>";
                }
                echo "</td>";
                echo "<td>".reformatDateForDisplay($myrow[3])."</td>";
                echo "<td>".reformatTimeForDisplay($myrow[4])."</td>";
                echo "<td>$myrow[5]</td>";
                echo "<td>";
                if($myrow[6] == 'p'){
                    echo "peer:<br>";
                    $queryA = "SELECT degreeProgramName FROM degree_programs WHERE degreeProgram_id=' $myrow[7] ' ";
                }
                else{
                    echo "faculty:<br>";
                    $queryA = "SELECT departmentName FROM upm_departments WHERE department_id=' $myrow[7] ' ";
                }
                $resultA = mysql_query($queryA);
                $myrowA = mysql_fetch_row($resultA);
                echo "<td>$myrowA[0]<br>";
                echo "</td></tr>";
            }
            if($currentTutorialCount != 0){
                echo "</table>";
                echo "</div>";
            }
            else{
                echo "<table width='100%'>";
                echo "<tr><td align='center'>no records</td></tr>";
                echo "</table>";
            }
        }
        else{
            echo "<table width='100%'>";
            echo "<tr><td align='center'>no records</td></tr>";
            echo "</table>";
        }
    }
    echo "<br>";
    echo "<table width='100%'>";
    echo "<tr><td align='center'>Previous Tutorial Schedules</td></tr>";
    echo "</table>";
    connect_Db();
    $query = "SELECT DISTINCT(tutorial.tutorial_id), subject.subjectName, tutorial.topic, tutorial.date, tutorial.time, CONCAT(tutor.firstName, '
', tutor.middleName, ' ', tutor.lastName) AS tutorFullName, tutor.tutorType, tutor.deptCourse FROM subject, tutor, tutorial LEFT JOIN
attendance AS a ON (tutorial.tutorial_id=a.tutorial_id) WHERE a.tutorial_id='null' AND tutorial.tutor_id=tutor.tutor_id AND
tutorial.subject=subject.subject_id AND tutor.username=' $username' AND tutor.password=' $password' ";
    $result = mysql_query($query);
    if(mysql_num_rows($result) > 0){
        echo "<div style='height:auto; width:100%; overflow:scroll;'>";
        $tutorialSchedulesTableColNames = array('attendees', 'Subject', 'Topic', 'Date', 'Time', 'Tutor', 'Course/Department');
        echo "<table id='tutorScheduleTable' width='100%' border='1'>";
        echo "<tr>";
        foreach($tutorialSchedulesTableColNames AS $tutorialScheduleTableColNamesElem){
            echo "<td align='center'>$tutorialScheduleTableColNamesElem</td>";
        }
        echo "</tr>";
        while($myrow = mysql_fetch_row($result)){
            $queryA = "SELECT student_number FROM attendance WHERE tutorial_id=' $myrow[0] ' ";
            $resultA = mysql_query($queryA);
            echo "<tr><td align='center'>".mysql_num_rows($resultA)."</td>";
            echo "<td>$myrow[1]</td>";
            echo "<td>";
            foreach(explode(" ", $myrow[2]) AS $topicArrayElem){
                $queryA = "SELECT topicName FROM topic WHERE topic_id=' $topicArrayElem' ";
                $resultA = mysql_query($queryA);
                $myrowA = mysql_fetch_row($resultA);
                echo "<td>$myrowA[0]<br>";
            }
            echo "</td>";
            echo "<td>".reformatDateForDisplay($myrow[3])."</td>";
            echo "<td>".reformatTimeForDisplay($myrow[4])."</td>";
            echo "<td>$myrow[5]</td>";
            echo "<td>";
            if($myrow[6] == 'p'){
                echo "peer:<br>";
                $queryA = "SELECT degreeProgramName FROM degree_programs WHERE degreeProgram_id=' $myrow[7] ' ";
            }
            else{
                echo "faculty:<br>";
                $queryA = "SELECT departmentName FROM upm_departments WHERE department_id=' $myrow[7] ' ";
            }
            $resultA = mysql_query($queryA);
            $myrowA = mysql_fetch_row($resultA);
            echo "<td>$myrowA[0]<br>";
            echo "</td></tr>";
        }
    }
}

```



```

    echo "</table>";
    echo "</div>";
}
else{
    echo "<table width='100%'>";
    echo "<tr><td align='center'>no records</td></tr>";
    echo "</table>";
}
}
////////////////////////////////////
function reformatDateForDisplay($date){
    $dateArray = explode("-", $date);
    $dateUnix = mktime("00", "00", "00", $dateArray[1], $dateArray[2], $dateArray[0]);
    return date("F j, Y", $dateUnix);
}
////////////////////////////////////
function reformatTimeForDisplay($time){
    $timeArray = explode(":", $time);
    $index = 0;
    foreach($timeArray AS $timeArrayElem){
        //filter seconds if it exists...
        if(strlen($timeArrayElem) == 8){
            $s = ":" . substr($timeArrayElem, 6);
            $timeArrayElem = substr($timeArrayElem, 0, 5);
        }
        $timeExt = "AM";
        $timeArrayElemArray = explode(":", $timeArrayElem);
        if(substr($timeArrayElemArray[0], 0, 1) == "0"){
            $timeArrayElemArray[0] = substr($timeArrayElemArray[0], 1, 1);
        }
        if($timeArrayElemArray[0] > 11){
            $timeExt = 'PM';
        }
        if($timeArrayElemArray[0] > 12){
            $timeArrayElemArray[0] = $timeArrayElemArray[0] - 12;
        }
        $timeArray[$index] = implode(":", $timeArrayElemArray) . $s . $timeExt;
        $index++;
    }
    return implode("-", $timeArray);
}
////////////////////////////////////
function get_next_id($id, $table){
    $previous = 0;
    $current = 0;
    connect_db();
    $query = "SELECT $id FROM $table ORDER BY $id";
    $result = mysql_query($query);
    while($myrow = mysql_fetch_row($result)){
        $current = $myrow[0];
        if($current-$previous > 1){
            return $previous+1;
        }
        $previous = $current;
    }
    return $current+1;
}
?>

```

tutor_Javascript.php

```

var aniMateUsingToesColOrsIndex = 0;
var aniMateUsingToesColOrsInterval = 0;
var aniMateUsingToesColOrsElement = "";
function aniMateUsingToesColOrs(elementId){
    if(aniMateUsingToesColOrsElement == ""){
        aniMateUsingToesColOrsElement = elementId
    }
    var secs = 0;
    var color = "white";
    if(aniMateUsingToesColOrsInterval){
        clearInterval(aniMateUsingToesColOrsInterval);
    }
    aniMateUsingToesColOrsIndex++;
    aniMateUsingToesColOrsIndex = aniMateUsingToesColOrsIndex % 9;
    switch(aniMateUsingToesColOrsIndex){
        case 1:
            color = "blue";
            secs = 1000;
            break;
        case 2:
            color = "red";
            secs = 1000;
            break;
        case 3:
            color = "green";
            secs = 1000;
            break;
        case 4:
            color = "yellow";
            secs = 1000;
            break;
        case 5:
            color = "blue";
            secs = 500;
            break;
        case 6:
            color = "red";
            secs = 500;
            break;
        case 7:
            color = "green";
            secs = 500;
            break;
        case 8:
            color = "yellow";
            secs = 500;
            break;
        default:
            color = "white";
            secs = 1;
            break;
    }
    document.getElementById(aniMateUsingToesColOrsElement).style.color = color;
    aniMateUsingToesColOrsInterval = setInterval(aniMateUsingToesColOrs, secs);
}
function loginFormCheck(currentForm){
    if(currentForm.username.value == ""){
        alert("error: please include your username");
        return false;
    }
    if(currentForm.password.value == ""){
        alert("error: please include your password");
        return false;
    }
    return true;
}
function tutorPasswordCheck(currentForm){
    if(currentForm.passwordNew.value.length < 8){

```

```

    alert("error: please use passwords of length 8 or more");
    currentForm.passwordNewR.select();
    return false;
}
if(currentForm.passwordNewR.value.length < 8){
    alert("error: please use passwords of length 8 or more");
    currentForm.passwordNewR.select();
    return false;
}
return true;
}
function highlightSystemMessages(){
    document.body.innerHTML = highlightMessage(document.body.innerHTML, 'error:', '<br><br>', '#000000', '#FF8080');
    document.body.innerHTML = highlightMessage(document.body.innerHTML, 'message:', '<br><br>', '#000000', '#80FF80');
    document.body.innerHTML = highlightMessage(document.body.innerHTML, 'warning:', '<br><br>', '#000000', '#FFFF80');
}
function highlightMessage(bodyText, searchTermA, searchTermB, textColor, bgColor){
    var highlightStartTag = "<font style='color:" + textColor + "; background-color:" + bgColor + "; line-height: 1.1;'>";
    var highlightEndTag = "</font>";

    var newText = "";
    var i = -1;
    var j = -1;
    var lcBodyText = bodyText.toLowerCase();
    while(bodyText.length > 0){
        i = bodyText.indexOf(searchTermA, i+1);
        if(i < 0){
            newText += bodyText;
            bodyText = "";
        }
        else{
            // skip anything inside an HTML tag
            if(bodyText.lastIndexOf(">", i) >= bodyText.lastIndexOf("<", i)){
                // skip anything inside a <script> block
                if(lcBodyText.lastIndexOf("/script-", i) >= lcBodyText.lastIndexOf("<script", i)){
                    //search for the closing term of the system message...
                    j = lcBodyText.indexOf(searchTermB, i + searchTermA.length);
                    if(j > 0){
                        newText += bodyText.substring(0, i) + highlightStartTag + bodyText.substr(i, j - i) + highlightEndTag + bodyText.substr(j,
searchTermB.length);
                        bodyText = bodyText.substr(j + searchTermB.length);
                        j = -1;
                    }
                    else{
                        newText += bodyText.substring(0, i) + bodyText.substr(i, searchTermA.length);
                        bodyText = bodyText.substr(i + searchTermA.length);
                    }
                    lcBodyText = bodyText.toLowerCase();
                    i = -1;
                }
            }
        }
    }
    return newText;
}
function window_Onload(activeNav, activeTab){
    highlightSystemMessages();
    if(top != self){
        top.location = location;
    }
}
function editTutorScheduleSubjectsJs(submitValue, id){
    document.editTutorScheduleSubjects.tutorScheduleId.value = id;
    document.editTutorScheduleSubjects.editTutorTimeSchedule.value = submitValue;
    document.editTutorScheduleSubjects.editTutorTimeSchedule.click();
}
}

```

XI. ACKNOWLEDGEMENT

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Christian Ronquillo – itinituturing kong isang kapatid na palaging maaasahan at handang tumulong sa anumang pangangailangan. Take note nagpapautang din ito!

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to my pets at home - kay miming, bebang, bitoy, oski, osang, at sa mga creepy crawlers! kakarelieve talaga ng stress whenever I see you guys around! Salamat Mother Nature, I hope madagdagan pa ang nature tripping activities ko in the future. Also (to the reader) please help preserve Mother Nature.