

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

ONLINE STUDENT EVALUATION OF TEACHERS
(OSET) 4.0: DATA COLLECTION AND
ANONYMIZATION

A special problem in partial fulfillment
of the requirements for the degree of
Bachelor of Science in Computer Science

Submitted by:

Liezl D.R. Santos

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ACCEPTANCE SHEET

The Special Problem entitled "Online Student Evaluation of Teachers (OSET) 4.0: Data Collection and Anonymization" prepared and submitted by Liezl D.R. Santos 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

With an OSET that allows for the exporting of the student answers, it would be possible to use the system itself as a platform to test the effectiveness of a SET instrument. Since the data set of responses will be de-identified, they cannot be associated or linked to a particular respondent, protecting the privacy of the students. The used of module-based questions would also be a new feature of the system which will offer greater flexibility in modifying the SET instrument.

Keywords: evaluation system, de-identification, data privacy

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I. Introduction

A. Background of the Study

Students of the University of the Philippines Manila are requested to evaluate the teaching performance of their respective courses near the end of the semester. The main purpose of the Student Evaluation of Teaching Performance (SET) is for the students to share their thoughts, feelings and suggestions on how to improve the particular class as well as the performance of the faculty being evaluated so that the degree programs of different colleges can be enhanced and the benefits that the students get from their classes can be maximized.

UP Diliman had considered designing an evaluation of teaching instrument toward improving the quality of teaching in all units of the University, as early as 1984. Common aspects noted in a survey of evaluation instruments used in different UPD colleges were the basis of the original version of the SET. The questionnaire has undergone several revisions since it was introduced in 1987. In the early 1990's, the SET became a factor in identifying professorial chairs; while in some colleges it was used as one of the bases for decisions on faculty promotion and reappointment [3].

The UP Diliman evaluation tool consists of three sections: the student's participation on the course, the course itself, and the teacher's effectiveness in teaching. This SET instrument is structured in such a way that it is to enhance the quality of teaching for the departments in general [4]. The questionnaire still continues to be studied. Its inadequacy as an evaluation instrument for laboratory, practicum and skills-oriented courses has been repeatedly pointed out. There appears to be a need for a supplementary part which addresses aspects of teaching in skills, laboratory and performance courses [3].

In 2011, Laurie Ramiro made a new SET instrument for the College of Arts and Sciences in UP Manila. This new evaluation tool is to be used for both lecture and laboratory classes. In this questionnaire, the part about the teacher

and his/her teaching performance was divided into six domains – knowledge of the subject matter, style of teaching, class management, relationship with students, personality of the teacher and impact of teaching in student learning. Each of these domains has its own weight for scoring.

There have been projects in the past that attempted to automate the evaluation process: the OSET 1.0 of Herbert Eumage, et. al and the OSET 2.0 of Mark Donell Patio [4]. Unresolved problems and weaknesses of the two systems have been pointed out by Ishmael Viñas. In OSET 1.0, there were problems when adding a new department to the system and it also uses an old version of PHP. Minor problems such as wrong scoring system in the laboratory SET and missing questions in the lecture SET were encountered in OSET 2.0. Resolving these problems, Viñas developed a new version of the system, the OSET 3.0. Dynamic questions were also integrated in OSET 3.0 to allow modifying of the SET questionnaire without the need of recoding the system. However, because it was not the goal of the project, the system was not designed for data mining of SET responses.

On October 9, 2013, UP Manila Online SET has been released. For a student to access his/her online pre-enlistment form he/she needs to evaluate all of his/her classes first. Because this system is directly connected to the CRS database, many students received error messages and cannot submit their evaluation form during the first hours of pre-enlistment period. This is because of too many connections which the database cannot handle. Like the CAS SET, UP Manila Online SET evaluation tool is used for both lecture and laboratory classes.

B. Statement of the Problem

As the SET questionnaire continues to be studied, there is a big possibility for future revisions and modifications. There is no way to use the OSET 3.0 to test and study a new SET instrument as the system will only keep the computed scores. A new SET instrument must be tested to verify if it can really measure

the teaching ability of a faculty. To do that, researchers need to study the raw data containing the students' answers. In the previous version of the OSET, all the records of students' responses are deleted from the database after computing the score of each class that has been evaluated to prevent tracing of the answers of the students. There must a be way to keep students' answers in the OSET database but the answers cannot be associated or linked to a particular student. And also, legality issues when some faculty complain about the basis of their SET scores is another reason to keep the raw data of SET responses.

In OSET 3.0, adding questions is also not user friendly to developers and non-developers alike. Answer type needs to be made ahead, separately from the question itself. A more effective way to make a new SET instrument should be implemented.

The current UP Manila Online SET offers only one evaluation form per class even those with more than one instructor. The system also suffers from too many connections which the database cannot handle, delivering error messages to the clients.

C. Objectives of the Study

1. To create an Online Student Evaluation of Teachers (OSET) 4.0 that has the following functionalities for users with the following roles:
 - (a) Allows student to evaluate the faculty of his/her classes he/she is currently taking.
 - (b) Allows clerk to
 - i. Modify the SET instrument for a specific class for the current semester.
 - ii. Select the classes that will undergo student evaluation for the current semester.

- iii. Start and stop the evaluation for a specific class for the current semester.
 - iv. View the evaluation status of a class for the current semester.
 - v. View and print the SET scores of the faculty for the current semester.
 - vi. View and print list of students who still have classes to evaluate for the current semester.
 - vii. Generate reports of the SET results for the current semester.
 - viii. View and print SET scores of the past semesters.
- (c) Allows information security analyst to export SET responses which are to be subject to de-identification.
- (d) Allows administrator to
- i. Manage users and their respective roles.
 - ii. Generate user accounts with student roles that will undergo the SET process and print the students' login information.
 - iii. Download the classes of selected colleges for the current semester from the CRS.
 - iv. Manage SET instruments.
 - v. Specify the default SET instrument to be used.

2. To create a De-identification Tool that allows user to:

- (a) Open CSV file which contains the data to be de-identified.
- (b) Select the fields to be de-identified and the de-identification method to be used.
- (c) Save the de-identified data set for the use of researcher.

D. Significance of the Project

With an OSET that allows for the exporting of the student answers, it would be possible to use OSET as a platform to test the effectiveness of a proposed SET

instrument. A proposed SET instrument no longer needs to be tested in other systems like survey sites or manually.

With the ability to anonymize data through different anonymization techniques, privacy of the student responses is still maintained with their answers remaining confidential, meaning they cannot be traced back to each individual student. Although anonymized, the data still preserves the properties of the attributes that are present in the original data. This de-identified data set can then be used for data mining. Since it is to be exported as a CSV file, it would be easier for researcher to import and analyze this data using statistical software.

The use of module-based questions offers greater flexibility in modifying the SET instrument. Since the creation and modification of the questionnaires are to be done at the code level, the system does not limit the administrator to add different types of questions. The use of module also makes it possible to modify SET instruments without the need of recoding the main OSET system; changes on the codes are to be done only within the module. To some extent, the proposed system will make the SET instrument more extensible.

E. Scope and Limitations

1. The type of classes that could be evaluated in the system are regular lecture and laboratory classes.
2. SET score for a class is computed immediately after the evaluation is closed for that class.
3. After the evaluation has been finished for a class, it can no longer be restarted again.
4. The management of SET instruments is done through module-based approach.
5. The user accounts that are directly managed by administrators can only be given clerk, security analyst and administrator roles only.

6. User accounts with student role are generated by the system after importing of classes from CRS. Administrators can only change the password of the user accounts with student role. The student role can not be revoked from them. No additional roles can be added to them.
7. The de-identification methods to be used are subsampling, irreversible coding, random replacement, swapping, and global recoding. It is best left to the information security analyst to decide on which method to use.
8. Researcher on the effectivity of SET instrument has no direct access with OSET 4.0.

F. Assumptions

1. Students who fail to undergo the SET process after the evaluation has been closed for the class will no longer be allowed to evaluate.
2. Downloading of classes from the CRS should be done after the class list have been finalized.
3. There would be no deletion of previously created SET instruments.
4. It will be upon the discretion of the college to decide what to do to the students who have not evaluated after the given period, as long as it is not asking them to evaluate again.
5. The clerk will come from the Office of the Associate Dean for Academic Affairs (OADAA) from CAS or whoever is the clerk of the office assigned to process SET for the college.
6. The information security analyst will be someone from the IT office, Information Management System (IMS) or the system administrator. The instructions concerning the exporting of the SET responses will be coming from the OADAA or other concerned office.

7. The administrator will come from IMS.
8. The selection of classes that will undergo evaluation using a proposed SET instrument is done outside the class and assumed to follow the protocol for this.

II. Review of Related Literature

Conducting research becomes difficult when the data set to be studied is not readily available. With the increasing trend towards the use of electronic records, information can be easily stored and retrieved. However, due to privacy issues, these records containing personal information cannot be simply disclosed to the public or even to researchers for secondary use.

Disclosure of personal information is usually protected by law in different countries. In the Philippines, the Republic Act No. 10173 known as the Data Privacy Act of 2012 stated that the processing of any information from which the identity of the subject is apparent is prohibited by the law unless permitted and when one of the conditions stated in the act holds true [5]. Thus, to disclose such data containing personally identifiable information (PII) without seeking permission from the subject, even for reasearch purposes becomes a problem. To address this issue, de-identification is a common and successful strategy used in the US [6, 7], UK [8], Canada [9], Denmark [10] and India [11].

De-identification, as defined by the Privacy Technical Assistance Center (PTAC) established by the US Department of Education, refers to the process of removing or obscuring PII from (student) records in a way that minimizes the risk of unintended disclosure of the identity of individuals and information about them [12]. There are many different methods in the literature developed to de-identify data. Specific steps and techniques may vary depending on the situation but should be appropriate to protect the confidentiality of the individuals.

In de-identifying electronic records, types of variables and the distinctions among these categories are usually the first things to consider because of their impact on the probability of re-identification and on suitable de-identification methods to be used. Emam, et al. [13, 9] grouped variables in the data set to be de-identified into four categories - direct identifiers, quasi-identifiers, sensitive information and other variables.

- *Direct identifiers* (directly identifying information) can be used to uniquely identify an individual, either by themselves or in combination with other readily available information. First and last names are general example of direct identifiers.
- *Quasi-identifiers* (indirectly identifying relational information) are variables that cannot directly be associated to a certain individual but can probabilistically identify the subject. Examples are gender, geographic indicators such as postal codes, and age.
- *Sensitive variables* refer to data that are not really useful for re-identification purposes but contains sensitive information such as laboratory results and diagnosis.
- *Other variables* pertain to the rest of the variables in the data set that does not fall into any of the three categories.

Pantazos et al. [10] further categorized direct and quasi-identifiers into structured or free-text. Unlike variables in structured format, those in free-form text do not have a pre-defined data type and semantics.

After classifying the variables in the data set. The next step is deciding the appropriate disclosure control methods to be used in de-identifying the data. There are several methods concerned with different types of data - whether it is microdata (i.e. individual-level data), tabular data (e.g. frequencies and aggregate statistics) or image data (e.g. face de-identification) [9].

Emam et al. broadly categorized de-identification methods for microdata as *perturbative* and *nonperturbative* [9]. The perturbative methods distort the truthfulness of the records in the data set. There many different techniques to perform perturbation.

- *Random replacement* is the process of replacing identifiers with randomly chosen values. A good randomization tool will select a name randomly with

the same probability as it appears in the population to ensure that rare names do not appear unproportionally often in the de-identified data [13].

- *Swapping* refers to the swapping of individual cells to introduce uncertainty. *Rank swapping* is a special case in which the swapping is done among the values of the variables within specified range of ranks, trying not to alter the values too much [1].
- *Pseudonymization* or *coding* replaces direct identifiers with pseudonyms. This technique is usually used along side with other methods to be applied in quasi-identifier variables. On its own, it is a simple and easy method to de-identify and link records in the data set that contains no quasi-identifier. Pseudonymization can be done reversibly if there is a need to re-identify the data in the future [1, 13].

All of these techniques are used by Pantazos et al. in de-identifying a Danish database of electronic health records (EHR) [10]. They tried to preserve the medical correctness of the data by preserving medical information and ensuring consistency. They defined two types of data consistency: internal and external. Internal consistency means that identical identifiers (e.g. civil registration numbers) in the original version are also identical in the de-identified version for each patient. This will link different records of the same patient. On the other hand, external consistency means that identical identifiers (e.g. last names) in the original version are also identical in the new version across patients to preserve family relationships for instance. They used swapping to de-identify given male names, given female names and last names. These variables were replaced by another one with roughly the same frequency in the database. CPR-number (the Danish civil registration number) was replaced by a consistent random pseudonym while other less important, non-identifier, numerical fields such as telephone number were replaced by a random number.

There are perturbation methods that can preserve aggregated properties of

the data [9]. Among them are:

- *Rounding* method perturbs by rounding data to a value in determined rounding set to avoid disclosing the exact value [1].
- *Aggregation/Microaggregation* uses aggregated values such as the mean or median among small clusters of data, instead of reporting the actual, individual values [1, 9].

Although aggregation and rounding are considered as perturbative methods, at the very least they preserve collective properties of the data set that may somehow be helpful or relevant to the researchers.

On the other hand, nonperturbative methods preserve the truthfulness of the data and is hence more appropriate to use if the goal is to preserve the properties of the attributes that are subject to de-identification [9]. Among the non-perturbative methods are:

- *Subsampling* techniques disclose only a subset of the records in the data set. This method is more appropriate when dealing with categorical data compared to numerical data. A matching attack using external data set can be performed in continuous numerical values because they are more likely to be unique [9].
- *Generalization* is the process of creating categories or range that subsumes unique or small number of cases to reduce the precision of the data. The disclosure risk of a generalized data set are usually measured. Records that are considered high risk are then subject for suppression. Generalization algorithms are used to find the best way to generalize variables so that the number of records to be suppressed will not exceed the desired *MaxSup*, the maximum number of records to be suppressed [13].
- *Global recoding* is the method of generalizing data and suppressing high risk records afterwards [9, 11, 6]. In generalizing variables, a classification tree or

generalization hierarchies of quasi-identifiers need to be defined. Although there are different algorithms and machine learning classifier that can be used [11], experts who are knowledgeable about the nature of data set can be consulted to create the hierarchies [9]. In global recoding, the disclosed data is aimed to satisfy the *k-anonymity* criterion. A data set is said to be *k-anonymized* when there is no equivalence class that is smaller than k , where equivalence class pertains to all records that share the same values on a set of quasi-identifiers. In other words, in *k-anonymized* data set each record is similar to at least $k-1$ records on the quasi-identifiers [9]. To satisfy this anonymization standard, suppression is done after generalizing the data. There are three general approaches for the suppression of data:

- *Casewise deletion* removes all the records of the subject in the data set. It results to distortion of the data because even the sensitive and other variables that are not really useful for re-identification will be removed.
- *Quasi-identifier removal* removes the values in the quasi-identifiers in the data set. This is better than casewise deletion but still would not apply to combinations because all quasi-identifiers will be removed.
- *Local cell suppression* applies an optimization algorithm to find the least number of values (cells) to be suppressed. This will result to a fewer suppress quasi-identifier values.

To apply local cell suppression, [9] defined a suppression algorithm they used in de-identifying a microdata file from the Canadian national hospital discharged abstract database. The first phase of the algorithm removes all the quasi-identifiers value that has infrequent support (i.e. number of occurrence is less than k). The second and last phase iterates to each quasi-identifier in every mole (equivalence class that are smaller than k , where) to remove that values with minimum support.

Although local cell suppression will result to the least amount of data sup-

pressed among the three approaches, its time complexity is obviously higher than the two, resulting to a slow performance. With this, casewise deletion or quasi-identifier removal may be used especially if the quasi-identifier to be suppressed is of least interest [10, 7].

Aside from being perturbative/nonperturbative, de-identification methods can also be classified as *synthetic* or *nonsynthetic* [6]. Synthetic methods treat all the records in the data set while nonsynthetic methods treat only a portion of it to reduce re-identification risk of a small group of (or single) records.

Perturbative, synthetic methods can be used if the goal is to produce artificial data that are used for occasions in which real data are not required, such as user training or software demo. However, these techniques will not be appropriate if the aim is to provide a de-identified data set in which the properties of the identifiers must be preserved. An example is a medical or health related research in which data such as patients' age, gender or geographic location is important for analysis.

Unlike de-identifying structured data where preserving anonymity is easy because of the predefined context where all identifiers are replaced according to the rules of the format, de-identifying free text is a challenging task. [7] and [14] are individual works focusing on de-identifying unstructured data.

In de-identifying unstructured data, the first task is to extract the attributes. This is usually done by examining each word in the free text. The system developed by Benton [14] first identifies email address, phone numbers, and URLs using *regular expressions* (RE), then tokenizes the rest of the words around these identifiers. Each token has its own feature vectors. The features used include the token itself, the case encoded as either lower, UPPER, Title or mIxEd, and its length. A *conditional random field* (CRF) classifier was then run over the tokens to estimate the probability that it is an identifier. The token is removed if it is marked as an identifier and is not in the list of drugs. [7] use a similar approach in their framework. They also run a CRF classifier over tokens

with extracted feature set. The difference from the previous system is that this framework also focused on keeping that data k -anonymized.

On the other hand, [10] used a simple algorithm to de-identify tables with free text. Each word in the free text is examined if it is a family name, first male name, first female name, place name or medical name. If it is only one of these identifiers then the word will be replaced according to the rule of that specific kind of name. Otherwise, the word is tagged as ambiguous and a special rule will be applied. For example, if a person name is also a medical term, their rule is to keep the name if it occurs more than 200 times in the database, else perform a casewise deletion, meaning suppress the records of patient entirely from the database.

Alongside the problem of de-identification is assessing the re-identification risk of the anonymized data [15]. In [7], Gardner and Xiong were able to illustrate that the value of k and the precision of the data is inversely proportional. A small k produces more precise data but has high disclosure risk. Using a large value for k , on the other hand, makes the data more anonymized but may result to misleading information due to the fact that the de-identified values varies greatly from the original ones. Hence, a balance between the privacy of the individuals and the precision of the disclosed data must be observed. The value of k used in practice is no more than 5 or 6 [16, 17]. While it may not be possible to completely eliminate the disclosure risk, de-identification is considered successful when there is no reasonable basis to believe that the remaining information in the records can be used to identify an individual [12].

III. Theoretical Framework

A. UP SET (Student Evaluation of Teachers)

Course evaluation is a means to produce feedback from the students which the teacher and the school can use to improve their quality of instruction. It is a printed or an electronic form consists of a series of questions to be answered by the students in order to evaluate the teaching performance of the faculty in a given course and the course itself.

UP SET (Student Evaluation of Teachers) refers to the process of course evaluation in the University. This is usually administered at the middle to the latter part of the semester. The SET is still done manually in UP Manila but it is already online in UP Diliman. The process is facilitated by an administrative staff who will ask the students to fill-up the evaluation forms. This is to be done in the absence of the faculty being rated [3].

To address the difference on the nature of the classes, two different types of SET instrument are used – one for ordinary lecture classes and another one for laboratory classes. The same layout and scoring is used for the two instruments. They only differ in the set of questions. Laboratory SET instrument includes questions about experiments and post-lab discussions while the Lecture SET instrument only includes questions that address a typical lecture class.

1. Format

The current SET form is divided into three main parts:

1. The Student

Part I asks about the student's participation in the course, the extent to which his/her expectations have been met and his/her self-rated performance.

2. The Course

Part II elicits the student's perceptions and feelings about the course, its

spacing, and the extent to which the course syllabus was followed. This part includes open-ended questions to enable the student to express his/her views freely.

3. The Teacher

Part III inquires into the teacher’s method of teaching. It consists of 26 statements with which the student either agrees or disagrees mildly or strongly. Part III also elicits information on the teacher’s observance of class schedule, evaluation practices, and instructional management. It asks the student to identify the teacher’s strong points and aspects of the course which needs to be improved.

2. Scoring and Encoding

Description	Abbreviation	Score
Strongly Agree	SA	1
Agree	A	2
Disagree	D	3
Strongly Disagree	SD	4
Not Applicable	NA	0

***Reverse scoring for negatively oriented items in Part III*

Table 1: Scoring for the SET forms

The procedure for computing the scores is as follows:

1. Get the number of respondents which has the same answer for the same question. E.g. Get the number of respondents who answered Strongly Agree for Item 1 in Part III-A.
2. For the same question, multiply the number of respondents for every answer with their corresponding factor.

3. Get the rating for that question by dividing it with the total number of respondents.
4. Add the ratings for all questions and average them up to get the final rating for the particular part of the evaluation.

Format of Reporting for Lecture SET

1. Part I – Mean ratings per item, 1-9.
2. Part II-A – Mean ratings per item, 1-7.
3. Part II-B – Frequencies of responses for Items 1, 1.1, 2, 3, and 4
4. Part II-IA – Mean rating per item, 1-26 and overall mean rating
5. Part III-B – Frequencies per item, 1-7

Format of Reporting for Laboratory SET

1. Part I – Mean ratings per item, 1-9.
2. Part II-A – Mean ratings per item, 1-5.
3. Part II-B – Frequencies of responses for Items 1, 1.1, 2, 3, and 4
4. Part III-A – Mean rating per item, 1-16 and overall mean rating
5. Part III-B – Frequencies per item, 1-5

The overall mean rating in Part III-A will be interpreted as follows:

Faculty Name	Course Title	Class Size		Course Type		SET Scores			
		No. of Respondents	No. of Students	Lab	Lec	I	II	III	IV

Table 2: Format of the report for Lecture SET

Score	Description
1.0 - 1.24	Outstanding
1.25 - 1.75	Very Satisfactory
1.76 - 2.25	Satisfactory
2.26 - 2.75	Fair
Below 2.75	Needs improvement

Table 3: Score Interpretation

B. CAS SET (Student Evaluation of Teachers)

The SET instrument made by Laurie Ramiro for the College of Arts and Sciences still follows the same layout of the UP SET but this evaluation tool is designed to be used for both lecture and laboratory classes. Varying weights of questions used in scoring were also introduced.

1. Format

Like the UP SET instrument, it is divided into three parts:

1. The Student

Part I consists only of two items in which the student will provide the exact number of class meeting he/she have missed and the number of times he/she

have been late.

2. The Course

Part II has two sections. The first section consists of four questions to address the nature of the class. The second section has five items. The first four items elicits the student's perceptions and feelings about the course while the last question asks the number of times that student have taken the course.

3. The Teacher

Part III has two sections as well. The first section inquires about the teaching performance of the faculty. It consists of 39 statements with which the student either strongly/moderately/somewhat agrees or disagrees. These 39 items is divided into six domains of teaching – knowledge of the subject matter, style of teaching, class management, relationship with students, personality of the teacher and impact of teaching in student learning. Each of these domains has its own weight for scoring (see Table 5). The second section consists of two open-ended questions asking for the teacher's strong and weak points and a multiple choice question asking for the areas in which the teacher should make much improvement.

2. Scoring and Encoding

Description	Abbreviation	Score
Strongly Agree	SA	1
Moderately Agree	A	2
Somewhat Agree	D	3
Somewhat Disagree	SD	4
Moderately Disagree	NA	5
Strongly Disagree	NA	6

***Reverse scoring for negatively oriented items in Part III*

Table 4: Scoring for the CAS SET forms

Domain	Item Nos.	Weight
Knowledge of the subject matter	1-6	6
Style of teaching	7-14	3
Class management	15-21	4
Relationship with students	22-27	1
Personality of teacher	28-33	2
Impact of teaching on student learning	34-39	5

Table 5: Weights of the Domains

The procedure for computing the scores are as follows:

1. Find all students who have been absent for more than five class meetings (for classes with one and half or less hour-class session) or more than three meetings (for three-hour class session). They will be excluded from the computation of the teachers score.
2. Compute the mean scores for each teaching domain.

3. Compute for the overall mean score. This overall mean score will be the teachers performance rating for that particular course and semester.

C. De-identification

De-identification is the process by which identifiers are removed from a collection of data. It mitigates privacy risks to individuals and thereby supports the secondary use of data for comparative effectiveness studies, policy assessment, life sciences research, and other endeavors [18].

To de-identify data, identifiers or variables that can potentially identify the subject are obscured to minimize the risk of unintended disclosure. There are two types of identifiers:

- *Direct identifiers* (directly identifying information) can be used to uniquely identify an individual, either by themselves or in combination with other readily available information. Examples are first and last names, social security number and student number.
- *Quasi-identifiers* (indirectly identifying relational information) are variables that cannot directly be associated to a certain individual but can probabilistically identify the subject. These attributes can be generalized and released [19]. Examples are gender, geographic indicators such as postal codes, and age.

The first step de-identification is to determine if a direct identifier needs to be included in the disclosed dataset. There will be some situations where these variables need to be included in the disclosed dataset, although the values themselves will be distorted. On the other hand, if there is no need for the identifying variables in the dataset, then these can be removed completely (i.e., suppressed). However, dealing with direct identifiers is insufficient to ensure that the data is truly de-identified. If there are quasi-identifiers in a dataset, then their

de-identification is necessary [1]. Also, if the data set contains free text (unstructured data), attributes that are contained in the text must be first extracted as they are also subject to de-identification.

The different methods for de-identifying can be grouped into two categories:

1. Perturbative Methods

Methods under this category distort the truthfulness of the records in the data set. There are many different techniques to perform perturbation.

- *Random replacement*, also called *randomization* keeps the identifying variables in the dataset, but replaces the actual values with random values that look real. For example, the real names and addresses would be replaced with fake names and addresses. The fake names and addresses would be taken from a large database of real names and addresses. This approach ensures that all of the information looks real (for example, if a randomization tool replaces a male name with a randomly selected name from its database, it will also be a male name) [1].
- *Swapping* refers to the swapping of individual cells to introduce uncertainty. *Rank swapping* is a special case in which the swapping is done among the values of the variables within specified range of ranks, trying not to alter the values too much [1]. Various constraints can be placed on such value substitutions. For example, if two first names are swapped, a constraint can be imposed to ensure that the two names has the same number of characters or that they are of the same ethnicity. Also, for example, if two credit card numbers are swapped, it may be desirable to ensure that both numbers are from the same financial institution or the same type of card.
- *Pseudonymization* or *coding* replaces direct identifiers with pseudonyms. Coding can be done irreversibly or reversibly [1, 13].
 - *Irreversible coding* irreversibly replaces identifiers with pseudonyms.

An irreversible pseudonym can be random or unique. A *random* pseudonym will be different if it is generated multiple times for the same individual while a *unique* pseudonym is the same when it is generated for the same person. Unique pseudonym can be used in occasions where one wishes to link multiple datasets. For example, multiple agencies may agree to provide coded data to a researcher and permit the researcher to link the different datasets together. The agencies may use the same algorithm to generate the pseudonyms for the individuals so that the same individual in multiple datasets will have the same pseudonym. This way the researcher can perform anonymous linking of the datasets – *Reversible coding* allows individuals to be re-identified if necessary. Common reversible coding schemes that are used are single or double coding. *Single coded* data means that identifiers are removed from the dataset and each record is assigned a new code (a pseudonym). Identifiers are kept in a different dataset with the pseudonym to allow linking back to the original data.

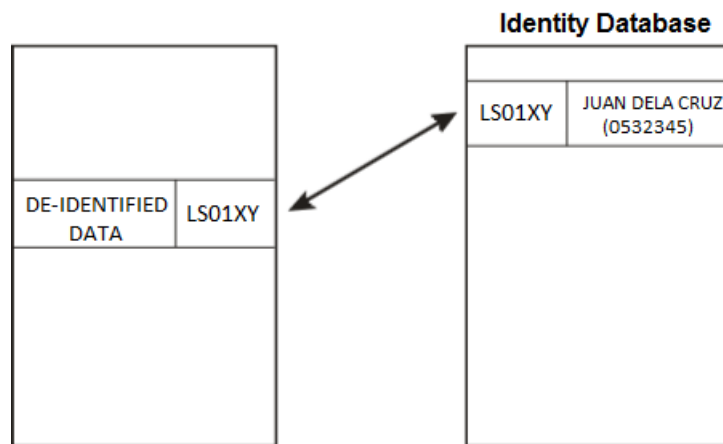


Figure 1: An example showing single coding [1]

Double coded data means that the pseudonyms associated with the original data and the identity database are different, and the information linking them is kept in a separate linking database. The linking

database is maintained in a secure location by an authorized party (also referred to as a trusted third party), for example.

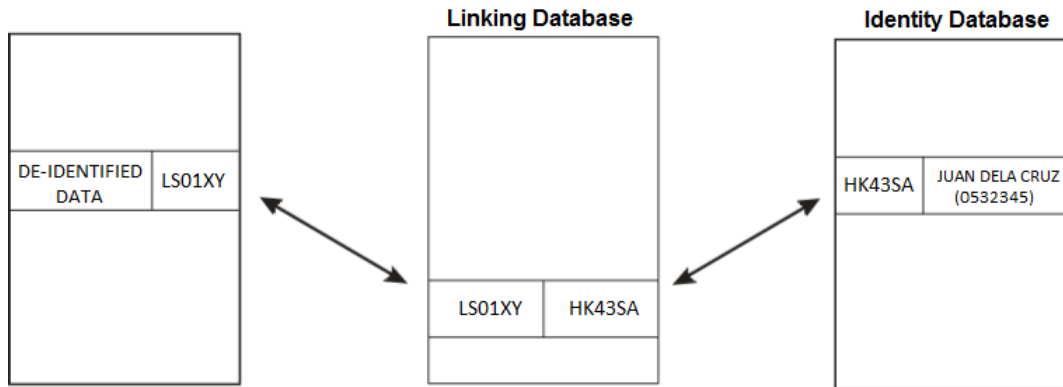


Figure 2: An example showing double coding through a linking database [1]

Some perturbative methods are designed to preserve aggregated properties of the data which may be helpful or relevant to the researchers. Examples of these methods are:

- *Rounding* method perturbs by rounding data to a value in determined rounding set to avoid disclosing the exact value [1].
- *Aggregation/Microaggregation* uses aggregated values such as the mean or median among small clusters of data, instead of reporting the actual, individual values [9, 1].

Perturbative methods are to be used if the goal is to produce artificial data that are used for occasions in which real data are not required, such as user training or software demo. These techniques will not be appropriate if the aim is to provide a de-identified data set in which the properties of the identifiers must be preserved. However, perturbative methods can still be applied to selected attributes that are not subject to analysis or are of least interest to the researcher.

2. Nonperturbative Methods

Nonperturbative methods preserve the truthfulness of the data and is hence more appropriate to use if the goal is to preserve the properties of the attributes

that are subject to de-identification. Among the nonperturbative methods are:

- *Subsampling* is a simple way to de-identify a dataset. This means that the custodian only discloses a random sample of the data that is requested. This approach, however, provides very limited protection against certain re-identification techniques and should not be used as the sole approach.
- *Generalization* is the process of creating categories or range that subsumes unique or small number of cases to reduce the precision of the data. Replacing the exact age values with a five year interval is an example of generalization.
- *Global Recoding* uses generalization and suppression to implement the k -anonymity de-identification criterion. This criterion ensures that there are at least k records in the dataset that have the same values on the quasi-identifiers for every combination of values. For example, if the quasi-identifiers are age and gender, then it would ensure that, say, there are at least k records with (50, male) values. In global recoding, the quasi-identifiers are generalized. Suppression is then performed for the data set to satisfy the k -anonymity criterion. It is either all the records of a particular subject (case wise deletion), all the occurrences of a particular quasi-identifier value (quasi-identifier removal) or a particular occurrence of a specific quasi-identifier value (local cell suppression) will be deleted.

Since nonperturbative methods preserve the truthfulness of the data, they are best used if the goal is to provide a de-identified data set that reflects the properties of the attributes of the original data set.

In de-identifying data, specific steps and techniques may vary depending on the nature of the study that is to be conducted with the de-identified data set. Nonetheless, the methods used should be appropriate to protect the confidentiality of the individuals.

3. The k -anonymity Criterion

One can attempt to match records in the released dataset with records from a population registry or any other external dataset available. The matching would have to be made on the basis of quasi-identifiers.

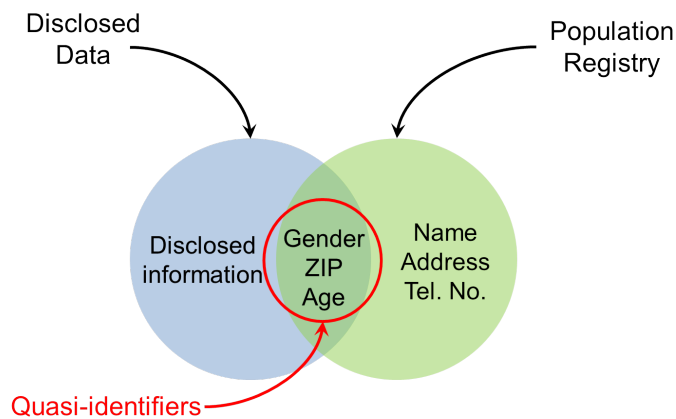


Figure 3: How the disclosed data can be linked with a population registry [1]

Figure 3 shows how record linkage would occur. Because the dataset and the population registry have common quasi-identifiers (in this example they are the age, gender, and postal code), then one could match the records in both datasets. The disclosed dataset does not have any identifying information, but the population registry does have identifying information (such as name, telephone number, and home address). If the record linkage is successful, one can associate the identifying information with the individuals in the disclosed data and re-identify them.

To prevent record linkage through quasi-identifiers, Samarati and Sweeney proposed k -anonymity: if one record in the table has some quasi-identifier value, at least $k - 1$ other records also have the value. In other words, the minimum group size on quasi-identifier is at least k . A table satisfying this requirement is called k -anonymous. In a k -anonymous table, each record is indistinguishable from at least $k - 1$ other records with respect to quasi-identifiers. Consequently, the probability of linking a victim to a specific record through quasi-identifier is at

most $1/k$ [20].

Registration Date	Gender	Age	Registration Date	Gender	Age
01/01/2013	M	18	01/01/2013	M	15-19
01/01/2013	M	17	01/01/2013	M	15-19
01/01/2013	M	18	01/01/2013	M	15-19
01/01/2013	M	13	01/01/2013	M	10-14
01/01/2013	M	19	01/01/2013	M	15-19
02/01/2013	F	18	02/01/2013	F	15-19
02/01/2013	F	22	02/01/2013	F	20-24
02/01/2013	F	23	02/01/2013	F	20-24
02/01/2013	F	21	02/01/2013	F	20-24
01/01/2013	M	22	01/01/2013	M	20-24

(a) Original Data Set

(b) 3-anonymous Data Set

Table 6: Illustration of 3-anonymity on a three quasi-identifier dataset [1]

Table 6 illustrates 3-anonymity on a three quasi-identifier dataset. The original dataset (a) is converted into a 3-anonymous dataset by generalizing the age into a range. The crossed-out records have to be suppressed in the (b) dataset to ensure 3-anonymity.

The k -anonymity model assumes that quasi-identifiers is known to the data publisher. Most work considers a single set of quasi-identifiers (QID) containing all attributes that can be potentially used in the quasi-identifier. The more attributes included in QID, the more protection k -anonymity would provide. On the other hand, this also implies that more distortion is needed to achieve k -anonymity because the records in a group have to agree on more attributes [20]. Also, the value of k and the precision of the data is inversely proportional. It is uncommon to used values of k above 5 or 6 [16].

D. Managing Large Data Sets

Storage space and accessing time are always serious considerations when working with large data sets. Compression, indexing and partitioning are some techniques used for managing large data sets.

Data set *compression* is a technique for squeezing out excess blanks and

abbreviating repeated strings of values for the purpose of decreasing the data sets size and thus lowering the amount of storage space it requires [2]. It can improve both raw performance and scalability. Compression results to less data transferred between disk and memory [21].

In uncompressed data sets, each observation occupies the same number of bytes. This is because the character values are padded with blanks while the numerical values are padded with binary zeroes. Figure 4 shows what two observations containing values for last name and first name might look like. Each observation takes 35 bytes of storage.

ADAMS	MIKE
BARNET	MARYBETH

Figure 4: Uncompressed observations [2]

In compressed data sets, however, an observation is treated as a single string of bytes, variable types and boundaries are ignored and consecutive repeating characters are collapsed into fewer bytes. There is also an overhead per observation used for compressed length, flags, etc.

@ADAMS#@MIKE#
@BARNET#@MARYBETH#

Figure 5: Compressed observations [2]

Figure 5 shows what the same two observations, if compressed, might look like. The @ represents how many uncompressed letters follow. The # represents the number of blanks repeated at this point. Here, the first observation takes 13 bytes of storage, and the second, 18 bytes.

Compression is useful when storage availability is a matter of particular concern. This technique is commonly used when the data sets are of significant size with much repeating data or padded fields. Preferably, the data set are not accessed regularly so as not to impact CPU time [2].

Another popular technique used for managing large volume of data and is considered the best way to improve the performance of the `SELECT` operations is *indexing* [22]. A data set index is a data structure that specifies the location of observations based on the values of one or more key variables. The reason for creating an index for a data set is to speed the access to a subset of the data [2]. The index entries act like pointers to the table rows, allowing the query to quickly determine which rows match a condition in the `WHERE` clause, and retrieve the other column values for those rows [22].

Indexing is commonly used when there are a fairly large number of distinct values for the variable to be indexed. This technique is useful when the data is not randomly scattered throughout the data set and is frequently queried and subset on the indexed variables [2].

IV. Design and Implementation

A. Use Cases

1. Top Level Use Case

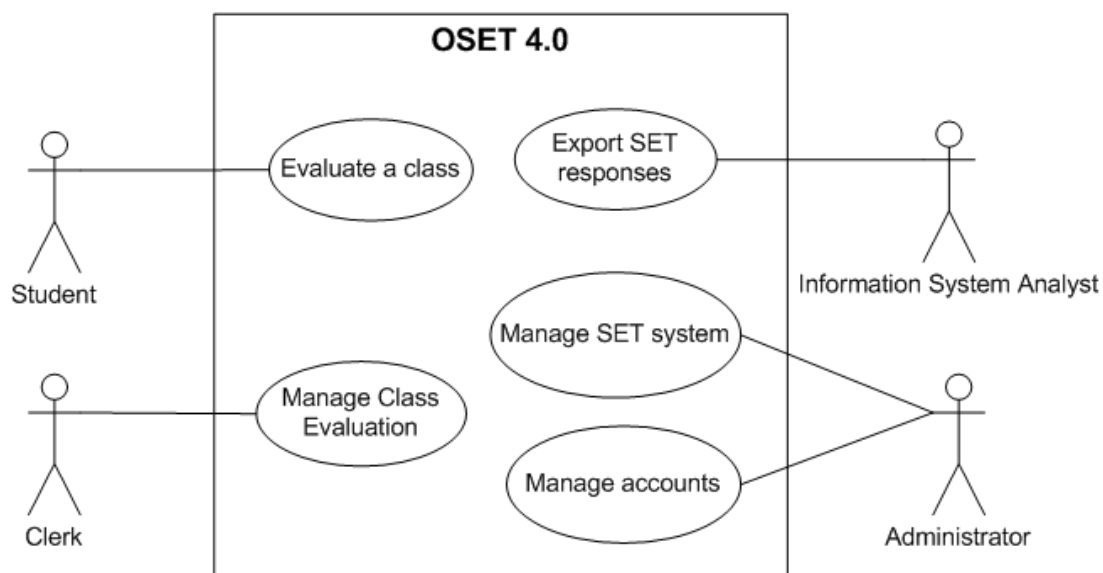


Figure 6: Top Level Use Case of OSET 4.0

Figure 6 shows the four actors in the OSET 4.0, namely, the student, the clerk, the information security analyst and the administrator. The main role of the student is to fill up and submit the SET forms of his/her classes. The clerk is responsible for the selection of classes to be evaluated, modification of the SET instrument for a specific class and generation of reports for SET scores. The information security analyst, on the other hand, exports de-identified SET responses. Lastly, the administrator manages the SET instrument and accounts that will be using OSET. The administrator is also responsible for downloading of classes and setting up the SET process with regards to its evaluation period.

2. Class Evaluation Management

Figure 7 shows the subexplosion of Class Evaluation Management. The clerk selects the classes under his/her college that will undergo SET. Before open-

ing a class for evaluation, he/she can modify the SET instrument for a particular class. Once the students' accounts have been generated by the system administrator, the clerk can open the evaluation process of a particular class that he/she previously selected. The students will then be able to evaluate their classes. The clerk can view the evaluation status of a class. He/she can also track students who have still unevaluated classes. The clerk will also be the one to decide when to close the evaluation period of a class. He/she can also generate the reports of those classes that are already closed for evaluation.

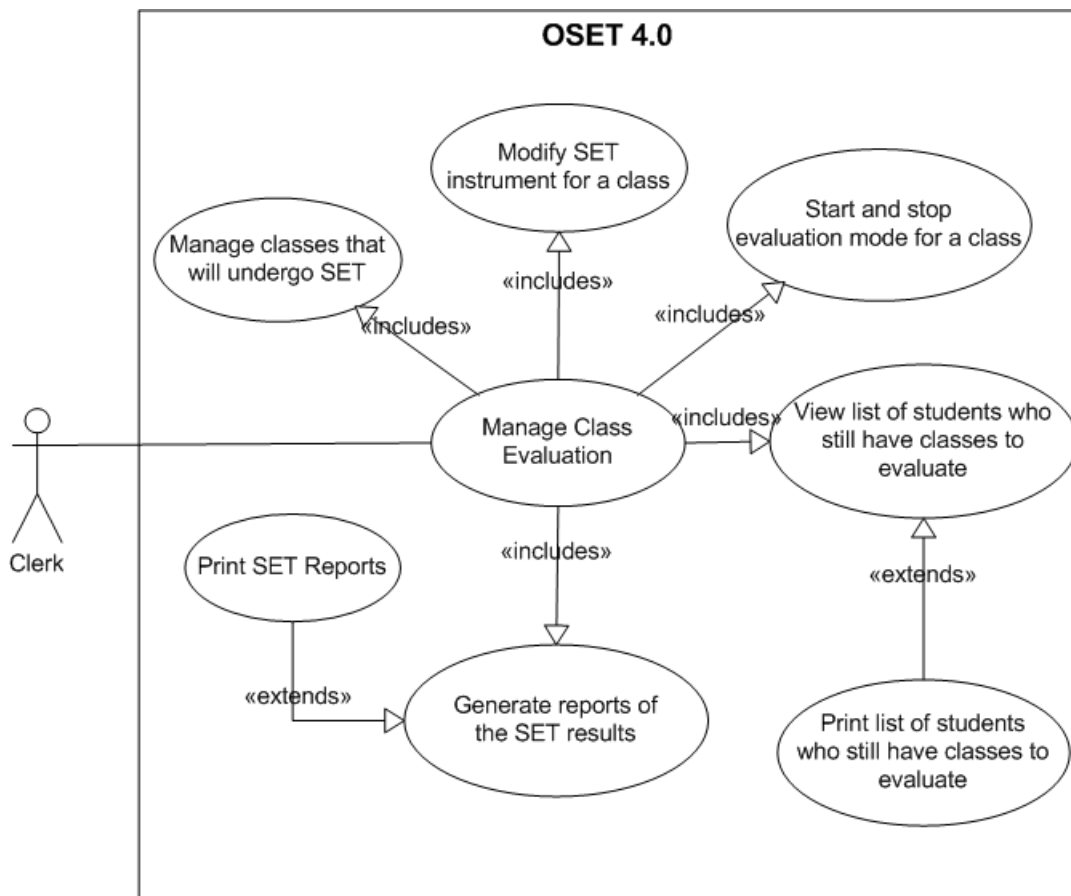


Figure 7: Class Evaluation Management Use Case

3. SET Report Management

Once the evaluation period of a particular class has been closed, the clerk can view the detailed report of the SET responses for this class. A faculty summarized report containing the overall SET scores of the faculty will also be available. This is illustrated in Figure 8.

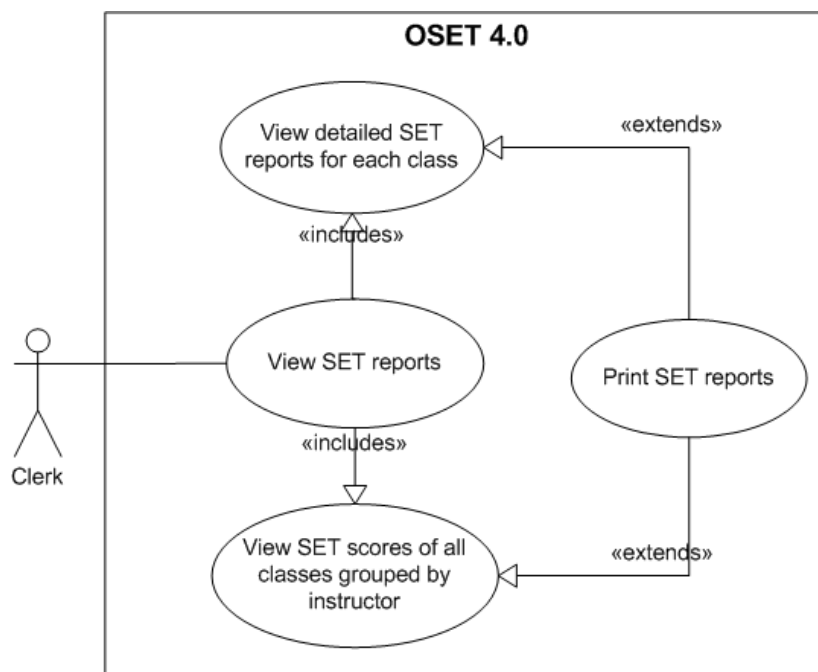


Figure 8: View SET Scores Use Case

4. SET System Management

Figure 9 shows the subexplosion of SET System Management. The administrator setups the semester and academic year of the evaluation process. He/she will also be the one to download the classes of each college that will undergo SET. Lastly, the administrator also manages the SET instruments to be used for evaluation.

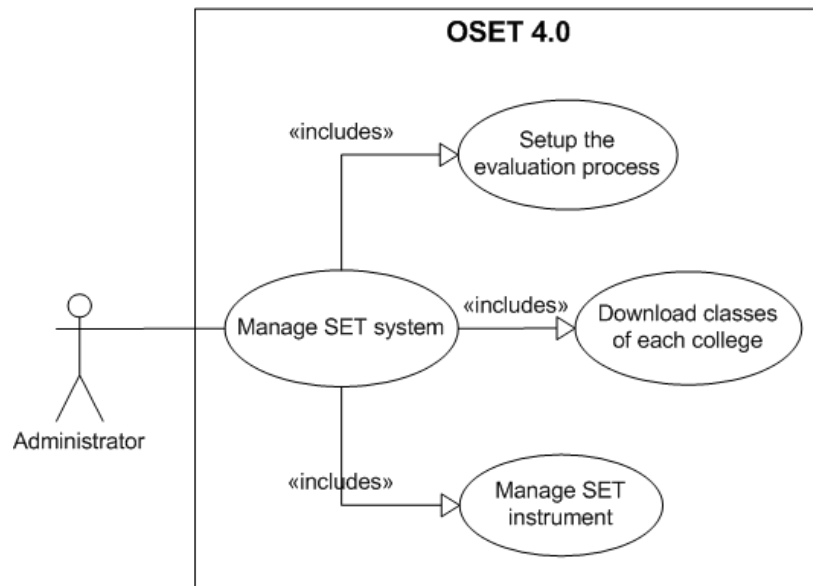


Figure 9: SET System Management

5. SET Instrument Management

Figure 10 shows the subexplosion of SET Instrument Management. The administrator can upload SET instrument module in a form of a zip file containing all the php files (i.e. controller, model and views files) needed. The system will then distribute each file to its particular folder following the PHP framework CodeIgniter. The administrator also sets the default SET instrument to be used for all classes that will undergo the evaluation process.

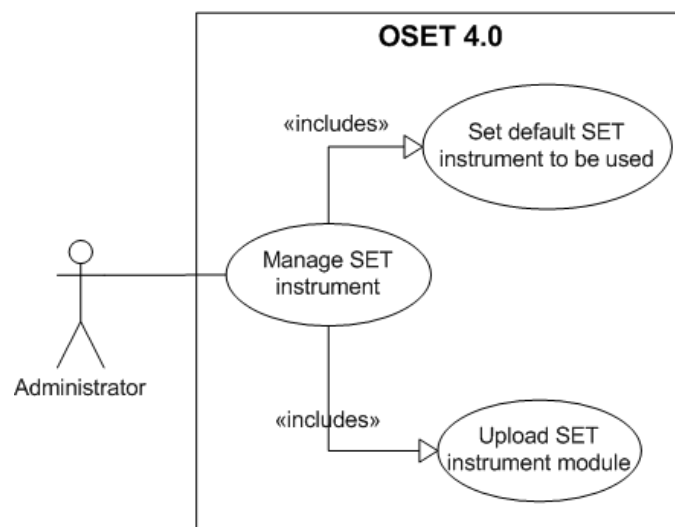


Figure 10: SET Instrument Management Use Case

The SET instrument module to be uploaded by the administrator is in the form of a ZIP file containing the following files:

a. CONFIG file

The CONFIG file will contain the names of the controller and the model of the SET instrument, as well as the name of the table to be used to store the SET responses.

```
<?php
    $controller_name = 'set_controller_name';
    $model_name = 'set_model_name';
    $table_name = 'set_table_name';
?>
```

b. Model file

The SET instrument model is a typical CodeIgniter model class that will extend CI_Model. It will be uploaded to 'models/set' folder and will be called as 'set/[filename]' in the SET controller. It will contain at least the functions shown below:

```
<?php
/* The class name (filename) of the model file can be anything
   as long as it is not the same as other previously uploaded
   SET instruments. */
class set_model_name extends CI_Model
{

    /* This function will be called to create the table to be used
       to store SET responses. The table name can be anything as
       long as it is not the same as other previously uploaded SET
       instruments. */
    public function createTable()
    {
        /* The fields of the table can be modified. However, the
           first three fields (response_id, student_id,
           oset_class_id) are required and their data types should
           not be changed. */
        $query =
            "CREATE TABLE IF NOT EXISTS `set_table_name` (
                `response_id` int(11) NOT NULL AUTO_INCREMENT,
                `student_id` varchar(20) NOT NULL,
                `oset_class_id` int(11) NOT NULL,
```

```

        `question1` int(11) NOT NULL,
        `question2` int(11) NOT NULL,
        PRIMARY KEY (`response_id`)
    )ENGINE=InnoDB DEFAULT CHARSET=latin1 AUTO_INCREMENT=1;";

    $this->db->query($query);
}

/* This function inserts the SET response to the table of the
   SET instrument. */
public function saveResponse($data)
{
    $this->db->insert('set_table_name', $data);
}

/* This function saves the SET score per responded in the
   system table score_per_respondent. */
public function saveScore($data)
{
    $this->db->insert("score_per_respondent", $data);
}

/* This function updates the evaluation status of the student
   in the class he/she has evaluated. This also increases the
   field no_of_respondents of the class by 1. */
public function updateEvalStatus($oset_class_id, $student_id,
    $data)
{
    $this->db->where('oset_class_id', $oset_class_id);
    $this->db->where('student_id', $student_id);
    $this->db->update('classlist', $data);

    $sql = $this->db->query("SELECT no_of_respondents FROM class
        WHERE oset_class_id = '$oset_class_id'");
    $count = $sql->row()->no_of_respondents + 1;
    $this->db->where('oset_class_id', $oset_class_id);
    $value['no_of_respondents'] = $count;
    $this->db->update('class', $value);

    $this->load->model('audit_trail');
    $this->audit_trail->saveToDatabase("Evaluated a class");
}

/* This function checks if a student already evaluated a
   particular class. */
public function checkIfEvaluated($oset_class_id, $student_id)
{
    $sql = $this->db->query("SELECT evaluated FROM classlist

```

```

        WHERE oset_class_id = '$oset_class_id' AND student_id='
        $student_id'");
    return $sql->row()->evaluated;
}

/* This function will be used to get the data for the SET
   reports. */
public function getReportPerClassData($oset_class_id)
{
    //script for retrieving the data

    return $data;
}

// This function will generate the PDF files of SET reports.
public function generateReportPerClass($oset_class_id)
{
    $this->load->helper('file');
    $this->load->model('report_per_class');

    //writes pdf file
    $this->load->helper(array('dompdf', 'file'));
    $data = $this->getReportPerClassData($oset_class_id);
    $html = $this->load->view('set/set_report_view_filename',
        $data, TRUE);
    $pdf_data = pdf_create($html, '', FALSE);
    write_file($data['filename'], $pdf_data);

    //saves link to db
    $data = array('course' => $data['subject'],
        'sem_ay' => substr($data['class_id'], 0, 5),
        'instructor' => $data['instructor'],
        'path' => $data['filename'],
        'college' => $data['college_code'],
        'department' => $data['department_code']);
    $this->report_per_class->saveToDatabase($data);
}
}
?>

```

c. Controller file

The controller class will extend CI_Controller. It will be uploaded to 'controllers/set' folder. It will contain at least the functions shown.

```

<?php
    /* The class name (filename) of the controller file can be
       anything as long as it is not the same as other previously
       uploaded SET instruments. */

class set_controller_name extends CI_Controller
{
    public function __construct()
    {
        parent::__construct();
        /* The model classes, and the model for this SET instrument
           should be loaded beforehand. */
        $this->load->model('classes');
        $this->load->model('set/set_model_name');
    }

    /* This function provides the administrator a preview of the
       SET instrument. */
    public function preview()
    {
        $data = $this->session->userdata('logged_in');
        $this->load->model('SET_model');
        $data['SET'] = $this->SET_model->getRecords();

        $data['preview'] = true;
        $this->load->view('set/set_view_filename', $data);
    }

    /* This function will load the view file of the evaluation
       form of the SET instrument. */
    public function evaluate($oset_class_id)
    {
        $data = $this->session->userdata('logged_in');
        if($this->set_model_name->checkIfEvaluated($oset_class_id,
            $data['student_id']) == 0)
        {
            $data['preview'] = false;
            $data['class'] = $this->classes->getInformation(
                $oset_class_id);
            $this->load->view('set/set_view_filename', $data);
        }
        else
            redirect("student/home", "refresh");
    }

    public function submit($oset_class_id)
    {

```



```

//default fields
$user_data = $this->session->userdata('logged_in');
$data['student_id'] = $user_data['student_id'];
$data['oset_class_id'] = $oset_class_id;
//script for retrieving SET response goes here
$data['question_1'] = $this->input->post('question_1');
$data['question_2'] = $this->input->post('question_1');

//inserts response to SET instrument table
$this->set_model->saveResponse($data);

//appends response to CSV file for archiving
$this->load->model('csv');
$this->csv->saveResponse($data, 'set_table');

//saves score
$score = //script for computing the score
$data2['student_id'] = $user_data['student_id'];
$data2['score'] = $score;
$data2['oset_class_id'] = $oset_class_id;
$this->set_model_name->saveScore($data2);

//updates evaluation status
$data3['evaluated'] = 1;
$this->set_model_name->updateEvalStatus($oset_class_id,
    $user_data['student_id'], $data3);

redirect("student/home", "refresh");
}

public function generateReportPerClass($oset_class_id)
{
    $class = $this->classes->getInformation($oset_class_id);
    $filename = './reports/report_per_class/' . $class['
        instructor_code'] . '-' . $class['class_id'] . '.pdf';
    if(!file_exists($filename))
        $this->set_instrument_model->generateReportPerClass(
            $oset_class_id);
    redirect(base_url($filename), 'refresh');
}
}

```

d. View file for the evaluation form

This view file contains the evaluation form of the SET instrument. This will be loaded when a student evaluates a class or the administrator wants to preview the SET instrument. The filename of this PHP file can be anything as long as it

is not the same as the view files of other previously uploaded SET instruments. It will be uploaded to 'views/set/' folder and will be called as 'set/[filename]' in the SET controller.

```
<html>
  <header>
    <!-- loads the default CSS of OSET 4.0 -->
    <link href='<?=base_url('css/style.css')?>' rel='stylesheet'
          type='text/css'>
    <style>
      <!-- Internal CSS can be modified here. -->
    </style>
    <script>
      <!-- JavaScript can be placed here. -->
    </script>
  </header>
  <body>
    <div class="wrapper">
      <!-- loads the header and left panel of OSET 4.0 -->
      <?php include('header.php'); ?>
      <div class = "right">
        <?php if($preview)
          echo '<h2>Preview of SET Instrument (UP Diliman SET)
                </h2>';
        else
        {
          echo '<h2>Evaluate '.$class['subject'].' - '.ucwords
                (strtolower($class['instructor'])).'</h2>';
          echo '<form method="POST" onSubmit="return
                validateForm();" action="'.$base_url('index.php/
                student/set/upset/submit/'.$class['oset_class_id
                ']).'">';
        }
      ?>
      <!-- Codes to display questions will be placed here -->
      <?php if(!$preview) echo form_close(); ?>
    </div>
  </div>
</body>
</html>
```

e. View file for the class SET report

On the other hand, this view file will be used in generating PDF reports of SET results. Like the previous one, it will be uploaded to 'views/set/' folder and will be called as 'set/[filename]' in the SET controller. Also, the filename of this

PHP file can be anything as long as it is not the same as the view files of other previously uploaded SET instruments.

```
<html>
  <header>
    <!-- loads the default CSS of OSET 4.0 -->
    <link href='<?=base_url('css/style.css')?>' rel="stylesheet"
      type="text/css">
    <style>body{background-color: none;}</style>
  </header>
  <body>
    <b>
      UNIVERSITY OF THE PHILIPPINES MANILA <br/>
      STUDENT EVALUATION OF TEACHERS
    </b>
    <br/><br/>
    <!-- upper part of the SET report -->
    <table width="100%">
      <tr>
        <td>Instructor: <?php echo $instructor;?></td>
      </tr>
      <tr>
        <td>Course: <?php echo $subject; ?></td>
        <td>Date: <?php date_default_timezone_set('Asia/Manila');
          echo date("F j, Y, g:i a"); ?></td>
      </tr>
      <tr>
        <td>Sem/AY: <?php echo $sem_ay; ?></td>
        <td>No. of Respondents: <?php echo $no_of_respondents; ?><
          /td>
      </tr>
    </table>
    <hr>
    <!-- Codes to display other parts of the report will be placed
      here. -->
  </body>
</html>
```

6. Exporting of SET Responses

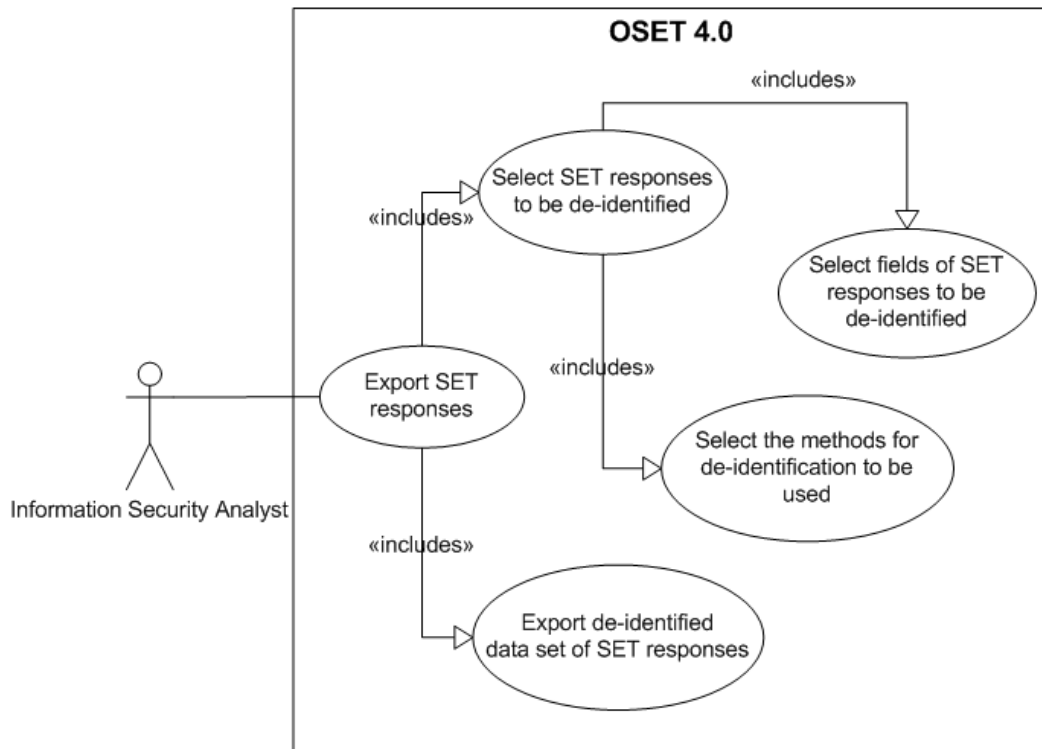


Figure 11: Exporting of SET Responses Use Case

Figure 11 shows the subexplosion of Exporting of SET Responses. The information security analyst selects the students' answers to be de-identified and then downloads the de-identified data set.

7. Account Management

The administrator creates and manages the accounts that will be using OSET 4.0 as illustrated in Figure 12. User accounts with clerk, information security analyst and administrator roles are directly managed by the administrator. Accounts with these roles can be added, edited and deleted by the administrator as shown in Figure 13. User accounts with student role, on the other hand, are generated by the administrator through the system based on the classlist from the *crs2* database. Administrator cannot modify student accounts' information except the accounts' passwords.

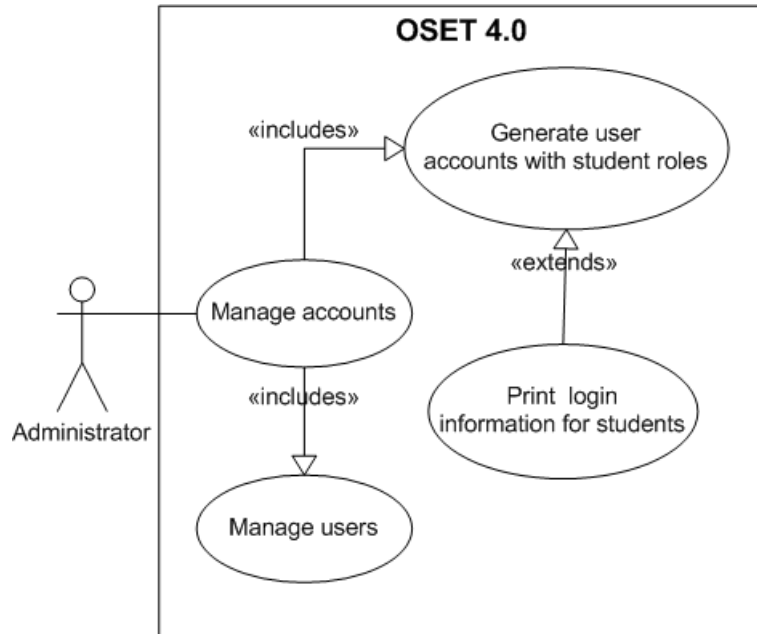


Figure 12: Account Management Use Case

8. User Management

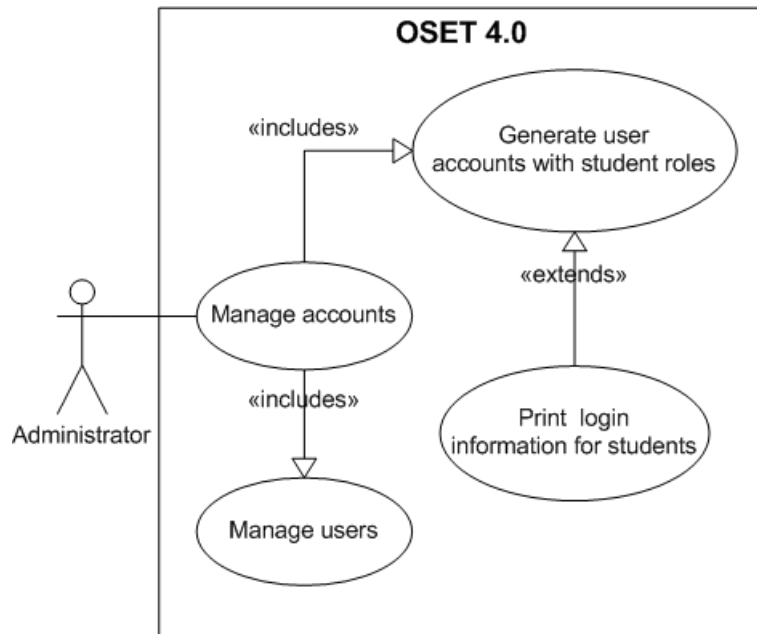


Figure 13: User Management Use Case

B. Process Flow Chart

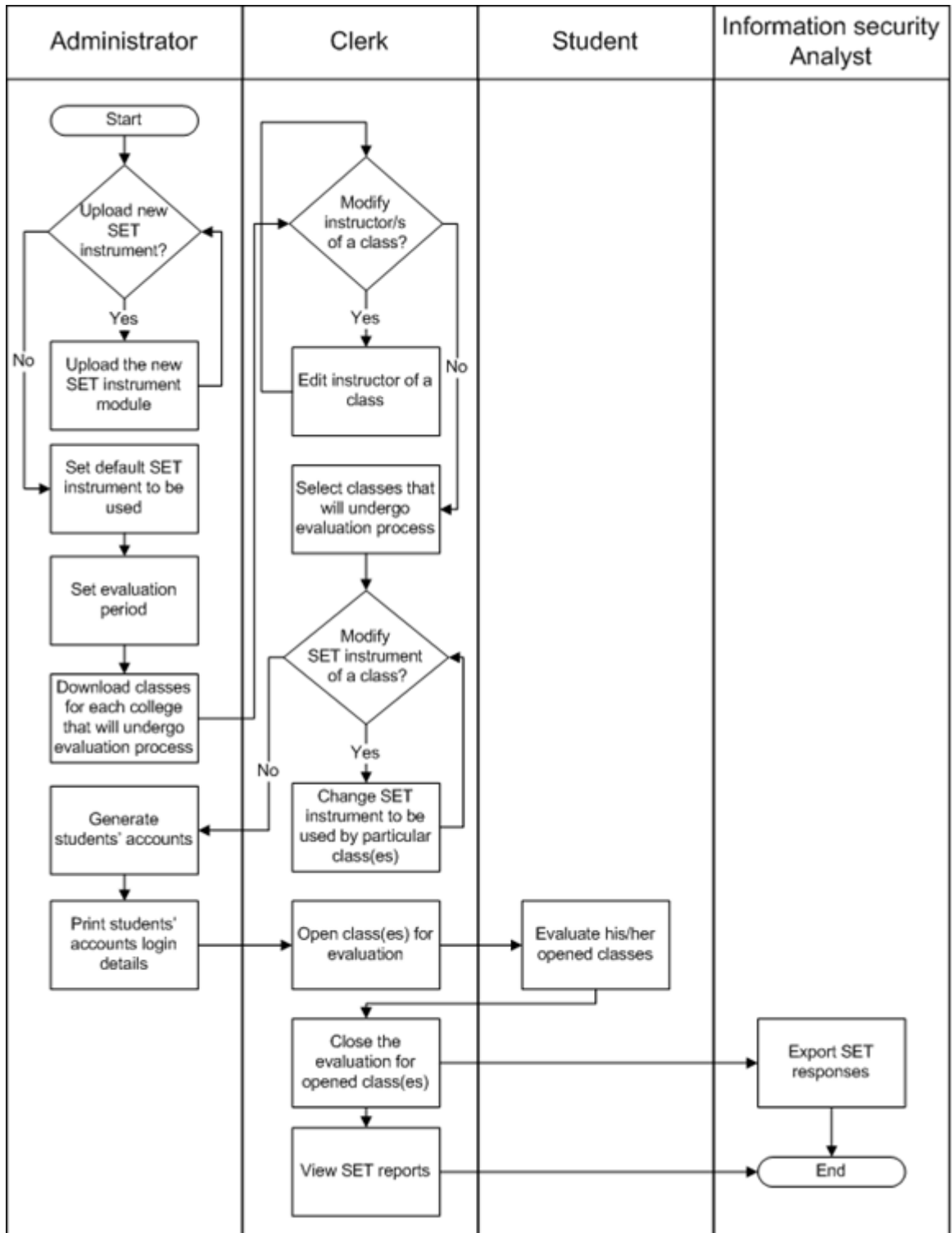


Figure 14: OSET 4.0 Process Flow Chart

C. Database Structure

1. Entity Relationship Diagram

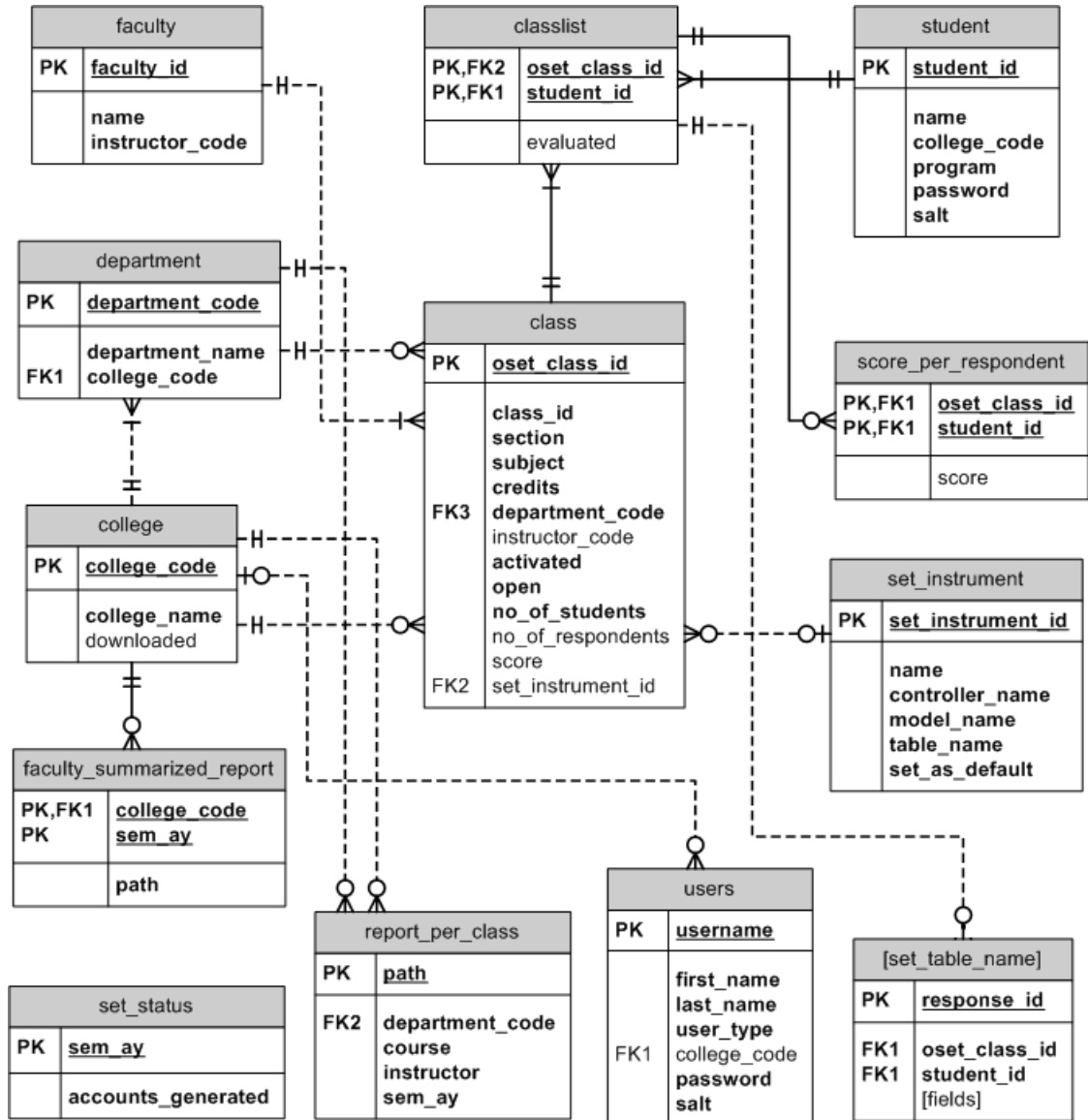


Figure 15: OSET 4.0 Entity Relationship Diagram

Figure 15 shows the entity relationship diagram of OSET 4.0. The college table contains the list of colleges of the university. Each college can have one or more department. Departments are stored in the department table. The records for college and department tables are inserted beforehand. The table set_status keeps track of important information about the evaluation process

(i.e. the academic year/semester of the evaluation period, the flag to determine whether students' accounts are already generated).

A student that will undergo SET process can be enrolled in one or more classes and a class can have many students. The `classlist` table contains the list of all matches of all students with all their classes. Thus, a student enrolled in many classes can appear many times in the `classlists` table and so does a class. Data for the `student`, `classlists`, `class` and `faculty` tables shall be downloaded by the administrator from the `crs2` database. The `crs2` database offers a view of the classes, students officially enrolled, and classlists of the current and past semesters. It also shares a view of the table that holds the data of the faculty of the whole university.

Once a student submitted an evaluation form to evaluate his/her class, the computed score will be saved to `score_per_responent` table. For every class of a student (i.e. every record in the `classlist` table) there is at most one entry in the `score_per_respondet` table. The tables `report_per_class` and `faculty_summarized_report` keeps the record of the report for each class and the faculty summarized report per college per evaluation period (i.e. academic year/semester), respectively.

Each SET instrument has its own table used to store students' responses.

2. Data Dictionary

1. college table

Attribute	Data Type	Description
<code>college_code</code>	<code>varchar(10)</code>	college code (e.g. CAS)
<code>college_name</code>	<code>varchar(80)</code>	name of the college (e.g. College of Arts and Sciences)
<code>downloaded</code>	<code>tinyint(1)</code>	1 if the classes for the college has been downloaded, 0 otherwise

Table 7: college table

2. department table

Attribute	Data Type	Description
department_code	varchar(10)	department code (e.g. DPSM)
department_name	varchar(80)	name of the department (e.g. Department of Physical Sciences and Mathematics)
<i>college_code</i>	varchar(10)	college code of the college which the department belongs to

Table 8: department table

3. class table

Attribute	Data Type	Description
oset_class_id	int(11)	unique identifier of a class
class_id	int(11)	class id retrieved from the crs2 database, Year+semester+code (e.g. 2013174096)
section	varchar(10)	a code following UP's rule for section naming (e.g. WEG)
subject	varchar(20)	subject name (e.g. CMSC 161 LAB)
credits	int(11)	credits of the course (e.g. 3)
<i>department_code</i>	varchar(10)	code of the department offering the class
<i>instructor_code</i>	varchar(100)	code of the instructor teaching the class
<i>college_code</i>	varchar(10)	code of the college offering the class
activated	tinyint(1)	1 if the class is selected for evaluation, 0 otherwise
open	tinyint(1)	1 if the class is open for evaluation, 2 if already closed, 0 otherwise
no_of_students	int(11)	number of students enrolled in the class
no_of_respondents	int(11)	number of students who already evaluated the class
score	int(11)	average score of the class after the evaluation process
<i>set_instrument_id</i>	int(11)	id of the SET instrument to be used for the class

Table 9: class table

4. faculty table

Attribute	Data Type	Description
faculty_id	int(11)	unique identifier of a faculty
name	varchar(100)	name of the faculty
instructor_code	varchar(100)	instructor code of the faculty (e.g. RBL CHUA)

Table 10: faculty table

5. classlist table

Attribute	Data Type	Description
<i>student_id</i>	varchar(10)	
<i>oset_class_id</i>	int(11)	
evaluated	boolean	1 if evaluated, 0 otherwise (i.e. not yet evaluated)

Table 11: classlist table

6. student table

Attribute	Data Type	Description
student_id	varchar(10)	student number (e.g. 201015493)
name	varchar(150)	name of the student
college_code	varchar(10)	college code of the student's college
program	varchar(50)	degree program of the student (e.g. BS ComSci)
password	varchar(50)	password of the student account
salt	varchar(10)	salt to be used for hashing the password of the student account

Table 12: student table

7. score_per_respondent table

Attribute	Data Type	Description
<i>student_id</i>	varchar(10)	
<i>oset_class_id</i>	int(11)	
score	int(11)	

Table 13: score_per_respondent table

8. report_per_class table

Attribute	Data Type	Description
path	varchar(200)	unique link for the PDF file of the report
<i>college_code</i>	varchar(20)	
<i>department_code</i>	varchar(20)	
course	varchar(50)	subject and section (e.g. CMSC 161 LAB-SIYKX)
sem_ay	varchar(20)	ay+sem (e.g. 20131 for 1st semester, A.Y. 2013-2014)

Table 14: report_per_class table

9. report_faculty table

Attribute	Data Type	Description
<i>college_code</i>	varchar(20)	
sem_ay	varchar(20)	ay+sem (e.g. 20131 for 1st semester, A.Y. 2013-2014)
path	varchar(200)	unique link for the doc file of the report

Table 15: report_faculty table

10. set_instrument table

Attribute	Data Type	Description
set_instrument_id	int(11)	unique identifier of a SET instrument
name	varchar(50)	name of the SET instrument (e.g. Laboratory SET)
controller_name	varchar(50)	class name of the controller of the SET instrument
table_name	varchar(50)	name of the table used to store SET responses
set_as_default	tinyint(1)	1 if set as default SET instrument, 0 otherwise

Table 16: set_instrument table

11. [set_table_name] table

Attribute	Data Type	Description
response_id	int(11)	unique identifier of the SET response
<i>oset_class_id</i>	int(11)	
<i>student_id</i>	varchar(10)	
[field]	-	other fields used to store the responses of the questions of the SET instrument

Table 17: [set_table_name] table

12. set_status table

Attribute	Data Type	Description
sem_ay	int(11)	academic year+semester (e.g. 20132)
accounts_generated	tinyint(1)	1 if students' accounts has been generated, 0 otherwise

Table 18: report_per_faculty table

13. users table

Attribute	Data Type	Description
username	varchar(50)	unique identifier for each user
first_name	varchar(50)	user's given name
last_name	varchar(50)	user's last name
<i>college_code</i>	varchar(20)	college code of the user if he/she has given the role of a clerk, blank otherwise
user_type	enum('1', '2', '3', '12', '13', '23', '123')	has a '1' if admin, has a '2' if clerk and has a '3' if analyst
password	varchar(50)	password of the user account
salt	varchar(10)	salt to be used for hashing the password of the user account

Table 19: users table

V. Architecture

A. System Architecture

Figure 16 shows the system architecture of OSET 4.0. Like a typical web application, the interface of the system is encoded in HTML, CSS and JavaScript. Some jQuery plugins such as jQuery accordion and jQuery autocomplete were also used. The presentation layer is linked to the logic layer using the PHP framework CodeIgniter. This framework implements the model-view-controller (MVC) software pattern. Following the MVC pattern, the system connects to its databases - the `crs2` database (a PostgreSQL database) and the main database (a MySQL database) through the system models.

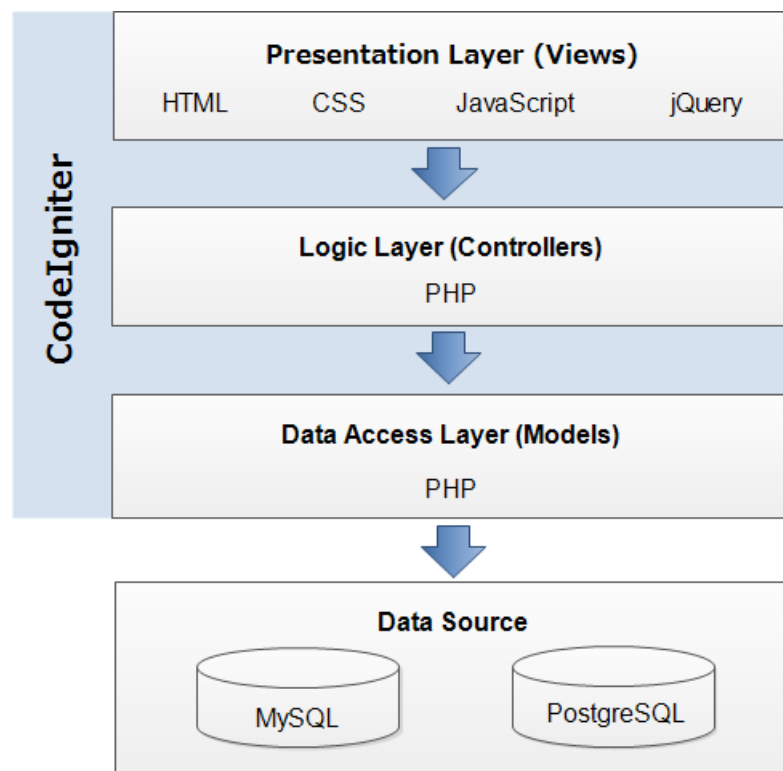


Figure 16: OSET 4.0 System Architecture

B. Technical Architecture

The server machine should have the following specifications:

1. 500+ MHz processor speed or higher
2. At least 1 GB of free disk space
3. 512 MB of RAM or higher

The server machine must have the following applications:

1. Linux
2. Windows Server 2008
3. PHP (Version 4 or up with PDO_MySQL and PDO_PGSQL modules)
4. MySQL (Version 5 or up)
5. Apache (at least 1.3.23)

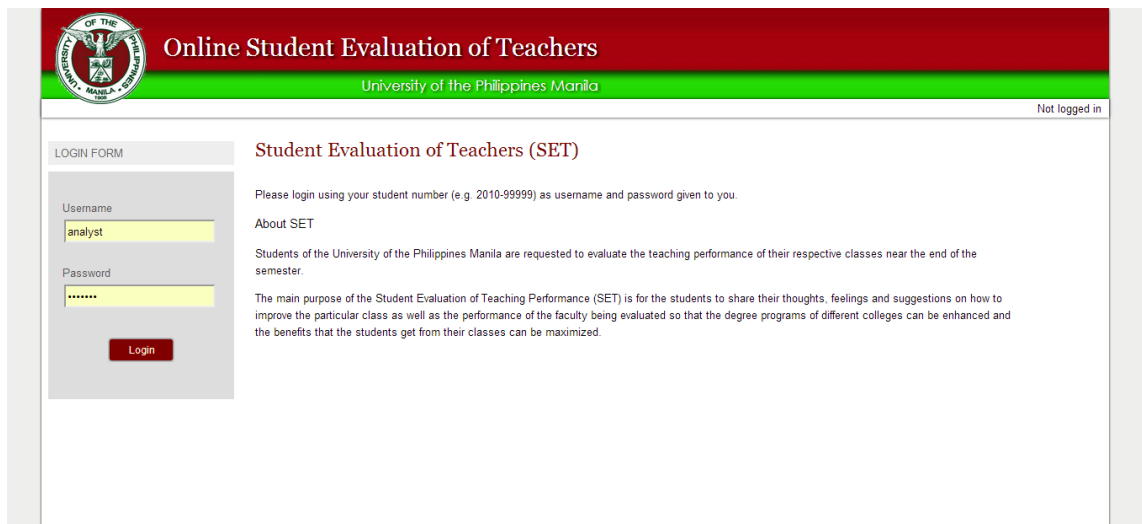
Hardware requirements for the client:

1. Web browser
2. PDF Viewer Software
3. Java™ Platform

VI. Results

A. Login Page

Figure 17 shows the login page of the OSET 4.0. All the system users will be logged in to the system through this page.



The screenshot displays the login interface for the Online Student Evaluation of Teachers (SET) system. At the top, there is a red header with the University of the Philippines Manila logo and the text "Online Student Evaluation of Teachers" and "University of the Philippines Manila". A green bar below the header contains the text "Not logged in". The main content area is divided into two sections. On the left, there is a "LOGIN FORM" with fields for "Username" (containing "analyst") and "Password" (containing "*****"), and a "Login" button. On the right, there is a "Student Evaluation of Teachers (SET)" section with a welcome message: "Please login using your student number (e.g. 2010-99999) as username and password given to you." Below this is an "About SET" section with two paragraphs of text explaining the purpose of the system.

Figure 17: Login Page

B. Student View

1. View Classes

Figure 18 shows the page where the student will be redirected after he/she logged in to the system. It shows the list of his/her classes that are selected to undergo evaluation. The student is allowed to evaluate open and unevaluated classes only.

The screenshot shows the 'Online Student Evaluation of Teachers' page for the University of the Philippines Manila. The header includes the university logo and name. A navigation menu on the left has 'Student Panel', 'View Classes', and 'Logout'. The main content area is titled 'List of Classes' and contains a table with columns for Subject, Section, Instructor, and an evaluation status.

Subject	Section	Instructor	
CMSC 142	TJK	GREGORIO BAES	Evaluated
CMSC 161 LAB	SIYKX	CHRISTOPHER GEORGE DUMANON	Evaluated
CMSC 161 LEC	SEZG	CHRISTOPHER GEORGE DUMANON	Evaluate
CMSC 171	TEYZ	GEOFFREY SOLANO	Evaluate
CMSC 191 (GA)	FEYIX	GEOFFREY SOLANO	Evaluate
CMSC 197 (SEMINAR)	TCXY	VINCENT PETER MAGBOO	Evaluate
CMSC 199 (RM)	MAB	AVEGAIL CARPIO	Evaluated
CMSC 199 (RM)	MAB	GEOFFREY SOLANO	Evaluation for this class is already closed.
CMSC 199 (RM)	MAB	MA SHEILA MAGBOO	Evaluate
CMSC 199 (RM)	MAB	RICHARD BRYANN CHUA	Evaluate
CMSC 199 (RM)	MAB	VINCENT PETER MAGBOO	Evaluate

Figure 18: View Classes

2. Evaluate a Class

Figure 19 shows the evaluation form of a class. This page may vary depending on the SET instrument assigned to a particular class.

The screenshot shows the 'Evaluate CMSC 161 LEC - CHRISTOPHER GEORGE DUMANON' page. The header is the same as Figure 18. The navigation menu on the left has 'Student Panel', 'View Classes', and 'Logout'. The main content area is titled 'Evaluate CMSC 161 LEC - CHRISTOPHER GEORGE DUMANON' and includes a breadcrumb trail: 'The Student | The Course | The Teacher |'. Below this is a table with 9 rows and 5 columns for evaluation ratings: 'Very much', 'Much', 'Moderately', 'Little', and 'Not at all'. Row 6 includes a scale from 0 to 6. Row 9 has a dropdown menu for the final grade. A note at the bottom states: '*Per UP regulations, late is defined as arriving more than 10 minutes after the scheduled time.' A 'Next Part >' button is at the bottom left.

	Very much	Much	Moderately	Little	Not at all
1. How actively did you participate in class discussions and activities?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2. Did you learn new ideas from your interactions with your teacher and classmates?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3. How receptive were you to new ideas presented by your teacher and classmates?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4. How much effort did you give to meeting the requirements in this course? (eg. term papers, reports, assigned readings)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
5. Do you feel that you have performed well in this course?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
6. Have your expectations of this course been met?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	0	1	2-3	4.5	6
7. How many times have you been late*?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
8. How many class meetings have you missed?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
9. What final grade will you give yourself in this course? <input type="text"/>					

*Per UP regulations, late is defined as arriving more than 10 minutes after the scheduled time.

[Next Part >](#)

Figure 19: Evaluate a class

C. Clerk View

1. Classes/Faculty Selection

Figure 20 shows the page where the clerk selects all the classes under his/her college that will undergo the evaluation process.

Online Student Evaluation of Teachers
University of the Philippines Manila

Welcome Ana. Logout

Classes Selection (College of Arts and Sciences)

Subject: Department: Search

Subject	Section	Instructors	Activated	
ACCTG I	WJK	EM CARDENAS	<input checked="" type="checkbox"/>	Edit
ANTHRO 133	TFI	MTG DE GUZMAN	<input checked="" type="checkbox"/>	Edit
ANTHRO 185	MHD	MTG DE GUZMAN	<input checked="" type="checkbox"/>	Edit
ANTHRO 187	MHI	LI HERNANDEZ	<input checked="" type="checkbox"/>	Edit
ANTHRO 187	MHJ	LI HERNANDEZ	<input checked="" type="checkbox"/>	Edit
ANTHRO 187	TFC	MTG DE GUZMAN	<input checked="" type="checkbox"/>	Edit
ANTHRO I	TFJ	MJL BOLUNIA	<input checked="" type="checkbox"/>	Edit
APP PHYSICS 110	TFJX	MJM DE LUNA SC JOHNSON	<input checked="" type="checkbox"/>	Edit
AREA ST 101	MHE	SA CARINGAL	<input checked="" type="checkbox"/>	Edit
AREA ST 122	TFD	AN ESGUERRA	<input checked="" type="checkbox"/>	Edit
AREA ST 132	TFE	AN ESGUERRA	<input checked="" type="checkbox"/>	Edit
BEH SCI 121	MHG	LI HERNANDEZ	<input checked="" type="checkbox"/>	Edit

Figure 20: Classes Selection

2. Edit Class

Figure 21 shows the page where the clerk can edit the instructor of a class. He/she can add and delete instructor.

Online Student Evaluation of Teachers
University of the Philippines Manila

Welcome Ana. Logout

Instructors (CMSC 120 LAB - SAB1)

+Add Instructor

Instructor Name	Instructor Code	
BERNIE TERRADO	B TERRADO	Delete Instructor
JOHN ALTHOM MENDOZA	JAA MENDOZA	Delete Instructor
JOANNA MARIELLE JIMENEZ	JMP JIMENEZ	Delete Instructor

Back to search results

Figure 21: Edit class

3. Add Instructor

Figure 22 shows the page where the clerk can add an existing faculty member (i.e. has a record on the faculty table) to a class.

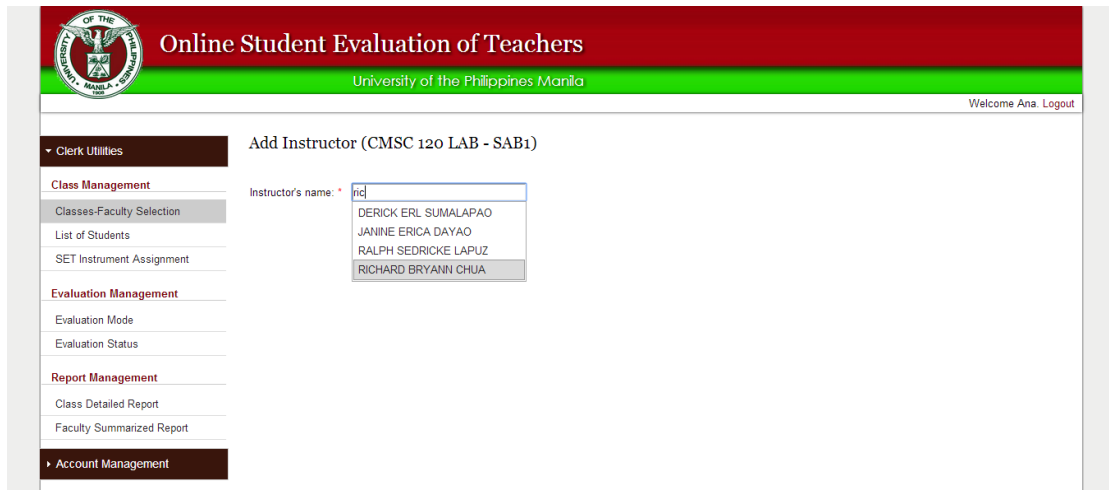


Figure 22: Add Instructor

4. Add New Faculty Member

In case the instructor's name entered by the clerk was not found in the faculty table, a link where he/she can add a new faculty member will be available as shown in Figure 23.

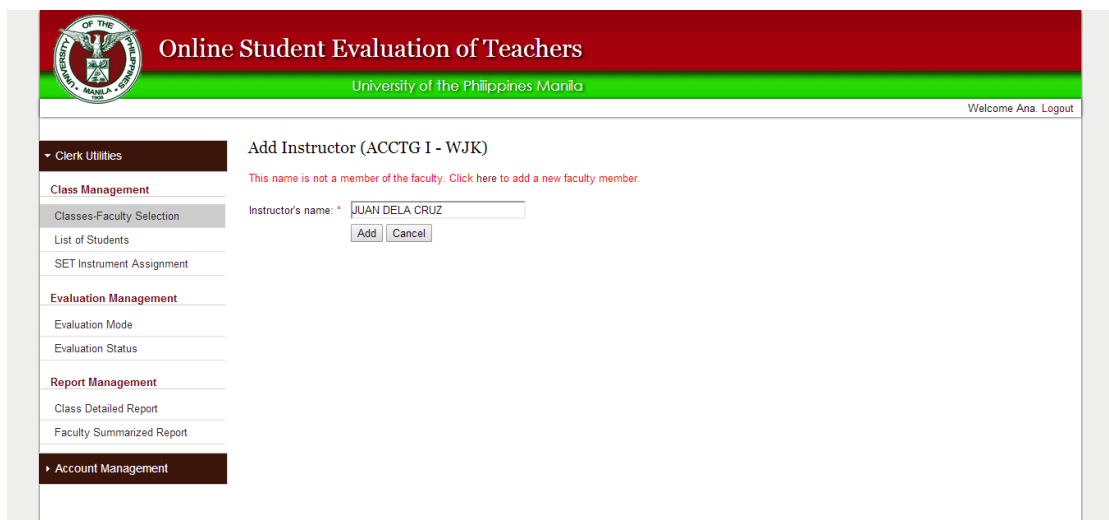


Figure 23: Link to Add New Faculty Member

Figure 24 shows the page where the clerk can add a new faculty member (i.e. insert a record on the faculty table). He/she can directly add this instructor to the class.

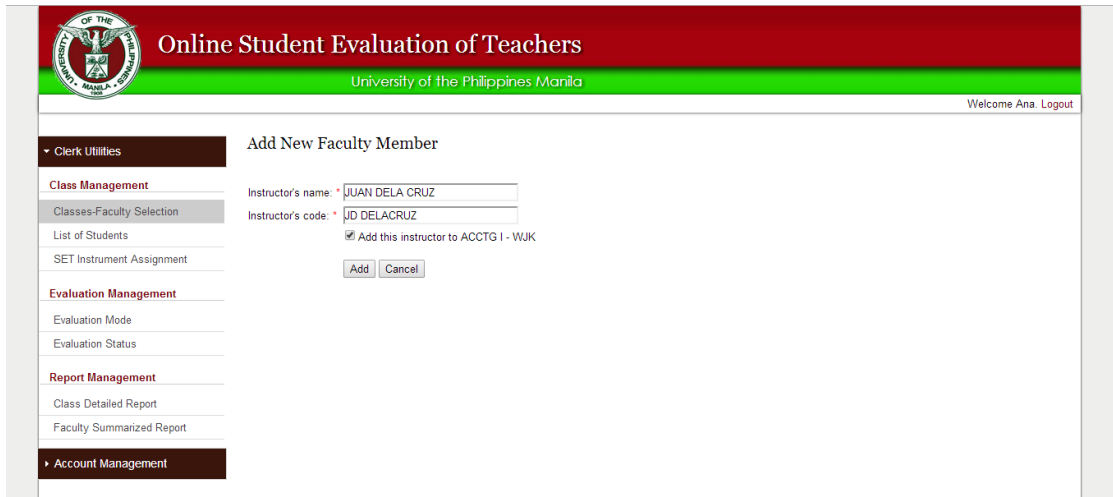


Figure 24: Add New Faculty Member

5. SET Instrument Assignment

Figure 25 shows the page where the clerk can modify the SET instrument to be used by a class. This can be done by batch.

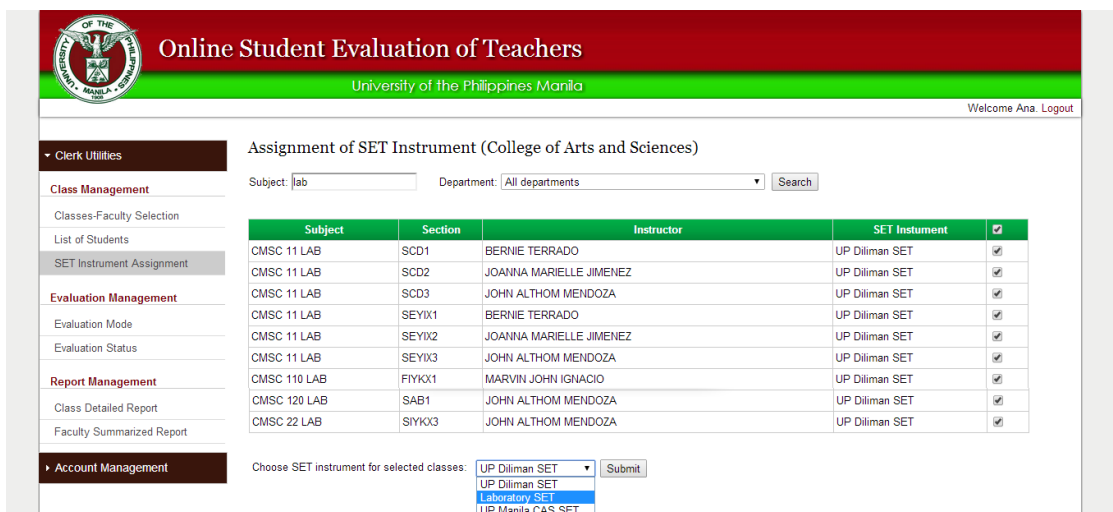


Figure 25: SET Instrument Assignment

6. List of Students

The clerk can view the list of students of his/her college as show in Figure 26.

Online Student Evaluation of Teachers
University of the Philippines Manila

Welcome Ana. Logout

▼ Clerk Utilities

Class Management

Classes-Faculty Selection

List of Students

SET Instrument Assignment

Evaluation Management

Evaluation Mode

Evaluation Status

Report Management

Class Detailed Report

Faculty Summarized Report

▶ Account Management

List of Students (College of Arts and Sciences)

Student's name: Search

Name	Student Number	
ABAD, EARL ANDREA	2012-45085	View classes
ABELLERA, KATHERINE MAY	2011-30245	View classes
ABERIN, MARVIN ANGELO	2011-19025	View classes
ALAVA, GABRIEL CHRISTIAN	2013-14696	View classes
ALAVA, MICHAEL JONATHAN	2013-59924	View classes
ALCANTARA, JEZRA	2010-01338	View classes
ALCARAZ, ANNA LYNN	2008-67897	View classes
ALMIRANEZ, LARISSA ANNE	2011-60027	View classes
ALVAREZ, MICHAEL RUSSELLE	2011-09216	View classes
AMPOL, ARIEL KENNETH	2010-14297	View classes
ANGELITO, RAIN ERIKA	2012-56521	View classes
AQUINO, RACHELLE COLLEN	2012-65856	View classes
AREVALO, ADRIEL	2012-01421	View classes
ARZADON, CHRISTINE JOYCE	2012-13554	View classes
ASAAD, AMIR	2013-20427	View classes
ASUNCION, JOHN ADRIAN	2013-16475	View classes
AYEN, ALELIE	2010-53099	View classes
BAGUNU, RAMON JOSE	2013-46717	View classes

Figure 26: List of Students

7. List of Classes

The clerk can also view the list of classes of a particular student as shown in Figure 27.

Online Student Evaluation of Teachers
University of the Philippines Manila

Welcome Ana. Logout

▼ Clerk Utilities

Class Management

Classes-Faculty Selection

List of Students

SET Instrument Assignment

Evaluation Management

Evaluation Mode

Evaluation Status

Report Management

Class Detailed Report

Faculty Summarized Report

▶ Account Management

List of Classes (SANTOS, LIEZL)

Back to search results

Subject	Section	Department	Instructor
CMSC 199 (RM)	MAB	DPSM	AD CARPIO
CMSC 199 (RM)	MAB	DPSM	RBL CHUA
CMSC 199 (RM)	MAB	DPSM	MSA MAGBOO
CMSC 199 (RM)	MAB	DPSM	VPC MAGBOO
CMSC 199 (RM)	MAB	DPSM	GA SOLANO
CMSC 142	TJK	DPSM	GB BAES
CMSC 161 LEC	SEZG	DPSM	CGD DUMANON
CMSC 197 (SEMINAR)	TCXY	DPSM	VPC MAGBOO
CMSC 171	TEYZ	DPSM	GA SOLANO
CMSC 161 LAB	SIYKX	DPSM	CGD DUMANON
CMSC 191 (GA)	FEYX	DPSM	GA SOLANO

Figure 27: List of Classes

8. Evaluation Mode

Figure 28 shows the page where the clerk can open the evaluation period of a class. This can be done by batch.

Online Student Evaluation of Teachers
University of the Philippines Manila

Welcome Shirley Logout

Open Evaluation (College of Arts and Sciences)

Open Evaluation Close Evaluation

Subject: CMSC 120 Department: All departments Search

Subject	Section	Instructor	
CMSC 120 LAB	SAB1	BERNIE TERRADO	<input type="checkbox"/>
CMSC 120 LAB	SAB1	JOHN ALTHOM MENDOZA	<input type="checkbox"/>
CMSC 120 LAB	SAB1	JOANNA MARIELLE JIMENEZ	<input type="checkbox"/>
CMSC 120 LAB	SAB2	BERNIE TERRADO	<input type="checkbox"/>
CMSC 120 LAB	SAB2	JOHN ALTHOM MENDOZA	<input type="checkbox"/>
CMSC 120 LAB	SAB2	JOANNA MARIELLE JIMENEZ	<input type="checkbox"/>
CMSC 120 LEC	HIYZ	AVEGAIL CARPIO	<input type="checkbox"/>

Open evaluation mode

Back to all classes

Figure 28: Open Evaluation

On the other hand, Figure 29 shows the page where the clerk can close the evaluation period of a class. This can also be done by batch.

Online Student Evaluation of Teachers
University of the Philippines Manila

Welcome Shirley Logout

Close Evaluation (College of Arts and Sciences)

Open Evaluation Close Evaluation

Subject: CMSC 120 Department: All departments Search

Subject	Section	Instructor	No. of Respondents	No. of Students	
CMSC 120 LAB	SAB1	BERNIE TERRADO	0	18	<input type="checkbox"/>
CMSC 120 LAB	SAB1	JOHN ALTHOM MENDOZA	0	18	<input type="checkbox"/>
CMSC 120 LAB	SAB1	JOANNA MARIELLE JIMENEZ	0	18	<input type="checkbox"/>
CMSC 120 LAB	SAB2	BERNIE TERRADO	0	16	<input type="checkbox"/>
CMSC 120 LAB	SAB2	JOHN ALTHOM MENDOZA	0	16	<input type="checkbox"/>
CMSC 120 LAB	SAB2	JOANNA MARIELLE JIMENEZ	0	16	<input type="checkbox"/>
CMSC 120 LEC	HIYZ	AVEGAIL CARPIO	0	34	<input type="checkbox"/>

Close evaluation mode

Back to all classes

Figure 29: Close Evaluation

9. Evaluation Status

Figure 30 shows the page where the clerk can view the evaluation status of all the classes selected to undergo evaluation process.

Class Evaluation Status (College of Arts and Sciences)

Class Evaluation Status | Student Evaluation Status

Subject: Department: All departments

Subject	Section	Instructor	No. of Respondents	No. of Students	Status
CMSC 10	FCD	MARVIN JOHN IGNACIO	14	14	Closed
CMSC 10	HAB	ARIEL BETAN	14	14	Closed
CMSC 10	HCD1	AVEGAIL CARPIO	14	14	Closed
CMSC 10	HCD2	ARIEL BETAN	14	17	Open
CMSC 10	TAB	MARVIN JOHN IGNACIO	15	17	Open
CMSC 10	TCD	MARVIN JOHN IGNACIO	14	14	Open
CMSC 11 LAB	SCD1	BERNIE TERRADO	15	15	Open
CMSC 11 LAB	SCD2	JOANNA MARIELLE JIMENEZ	14	14	Open
CMSC 11 LAB	SCD3	JOHN ALTHOM MENDOZA	13	16	Open
CMSC 11 LAB	SEYIX1	BERNIE TERRADO	14	14	Open
CMSC 11 LAB	SEYIX2	JOANNA MARIELLE JIMENEZ	13	13	Open
CMSC 11 LAB	SEYIX3	JOHN ALTHOM MENDOZA	14	14	Open
CMSC 11 LEC	SAZB	CHRISTOPHER GEORGE DUMANON	41	45	Open
CMSC 11 LEC	SCDX	CHRISTOPHER GEORGE DUMANON	41	41	Closed
CMSC 110 LAB	FYKX1	MARVIN JOHN IGNACIO	19	19	Open

Figure 30: Class Evaluation Status

Figure 31 shows the page where the clerk can view the PDF file containing the list of all students of his/her college who still have classes to evaluate.

Student Evaluation Status (College of Arts and Sciences)

Class Evaluation Status | Student Evaluation Status

Update list

UNIVERSITY OF THE PHILIPPINES MANILA
STUDENT EVALUATION OF TEACHERS

COLLEGE OF ARTS AND SCIENCES
The following students still have classes to be evaluated:

Abad, Earl Andrea
CMSC 123 LAB (FCD) - RBL CHUA
CMSC 22 LEC (SGYZ) - CGD DUMANON
CMSC 22 LAB (SIYKX3) - JAA MENDOZA
CMSC 123 LEC (FABX) - RBL CHUA
HPED 20 (A) - NM ALVIAR, MD

Abellera, Katherine May
CMSC 131 LAB (TCD) - GA SOLANO
CMSC 127 LAB (HCD1) - MJC IGNACIO
CMSC 1201 LAB (SAR1) - IMP JIMENEZ

Figure 31: Student Evaluation Status

10. Detailed Report of SET Responses

Figure 32 shows the page where the clerk can view the detailed report of SET responses of a class that is already closed for evaluation.

Subject	Section	Instructor	View report
CMSC 10	FCD	MJC IGNACIO	View report
CMSC 10	HAB	AS BETAN	View report
CMSC 10	HCD1	AD CARPIO	View report
CMSC 10	HCD2	AS BETAN	View report
CMSC 10	TAB	MJC IGNACIO	View report
CMSC 10	TCD	MJC IGNACIO	View report
CMSC 11 LAB	SCD1	B TERRADO	View report
CMSC 11 LAB	SCD2	JMP JIMENEZ	View report
CMSC 11 LAB	SCD3	JAA MENDOZA	View report
CMSC 11 LAB	SEYX1	B TERRADO	View report
CMSC 11 LAB	SEYX2	JMP JIMENEZ	View report
CMSC 11 LEC	SAZB	CGD DUMANON	View report
CMSC 11 LEC	SCDX	CGD DUMANON	View report
CMSC 110 LAB	FIYK1	MJC IGNACIO	View report
CMSC 110 LAB	FIYK2	MJC IGNACIO	View report

Figure 32: Detailed Report of SET Responses

When the clerk clicks the 'View report' link, the PDF file of the detailed report as shown in Figure 33 will be loaded in new tab of the browser.

	0	1	2	3	4	5	AVE				
1. How actively did you participate in class discussions and activities?	0	10	0	0	0	0	1				
2. Did you learn new ideas from your interactions with your teacher and classmates?	1	2	7	0	0	0	1.7778				
3. How receptive were you to new ideas presented by your teacher and classmates?	0	4	5	1	0	0	1.7				
4. How much effort did you give to meeting the requirements in this course? (eg. term papers, reports, assigned readings)	0	1	8	0	1	0	2.1				
5. Do you feel that you have performed well in this course?	0	5	4	1	0	0	1.6				
6. Have your expectations of this course been met?	0	1	8	1	0	0	2				
7. Have many times have you been late?	8	0	1	1	0	0	2.5				
8. How many class meetings have you missed?	4	0	4	1	1	0	2.5				
9. What final grade will you give yourself in this course?											
NR	1.00	1.25	1.50	1.75	2.00	2.25	2.50	2.75	3.00	INC	AVE
1	0	3	2	2	0	1	1	0	0	0	1.6667

Figure 33: PDF File of Detailed Report of SET Responses

The clerk can also view all records of the detailed report of SET responses

generated during the previous semesters as shown in Figure 34.

Online Student Evaluation of Teachers
University of the Philippines Manila

Welcome Ana. Logout

Class Detailed Report (College of Arts and Sciences)

View Report Search Report Archive

A.Y. Sem: 1st, 2013-2014 Department: All departments Subject: Search

Course	Instructor	Department	
CMSC 10-FCD	MJC IGNACIO	DPSM	View report
CMSC 10-HAB	AS BETAN	DPSM	View report
CMSC 10-TAB	MJC IGNACIO	DPSM	View report
CMSC 11 LAB-SCD1	B TERRADO	DPSM	View report
CMSC 11 LAB-SCD3	JAA MENDOZA	DPSM	View report
CMSC 123 LAB-FCD	RBL CHUA	DPSM	View report
CMSC 127 LEC-HEZG	MJC IGNACIO	DPSM	View report
CMSC 131 LAB-FCD	GA SOLANO	DPSM	View report
CMSC 142-TJK-TJK	GB BAES	DPSM	View report
CMSC 161 LAB-SIYKX-SIYKX	CGD DUMANON	DPSM	View report
CMSC 199 (RM)-MAB	MSA MAGBOO	DPSM	View report
CMSC 199 (RM)-MAB	YPC MAGBOO	DPSM	View report
CMSC 199 (RM)-MAB	RBL CHUA	DPSM	View report
CMSC 199 (RM)-MAB-MAB	AD CARPIO	DPSM	View report
CMSC 199 (RM)-MAB-MAB	GA SOLANO	DPSM	View report

Figure 34: Detailed Report of SET Responses Archive

11. Faculty Summarized Report

Figure 32 shows the page where the clerk can view the SET scores of all the instructors whose all classes that have been selected to undergo evaluation process are already closed. As illustrated, the scores of each class are also shown.

Online Student Evaluation of Teachers
University of the Philippines Manila

Welcome Shirley. Logout

Faculty Summarized Report (College of Arts and Sciences)

View Report Search Report Archive

Download this faculty summarized report for 1st Semester, Academic Year 2013-2014

Instructor's name: Search

Name	Subject	Units	No. of Students	No. of Respondents	Score	Total	Rating
ALEX GONZAGA	HI 299 / HAB	2	2	2	1.3055	2.6110	Very satisfactory
	STAT 121 LAB / TAB	1	15	15	1.8546	1.8546	Satisfactory
	STAT 121 LAB / TAB1	1	12	12	1.7834	1.7834	Satisfactory
	STAT 121 LEC / WABX	2	27	27	2.2456	4.4912	Satisfactory
	TOTAL	6				1.7900	Satisfactory
ALICE ADEVA	COMM III ENG / MHE	3	24	22	1.3125	3.9375	Very satisfactory
	COMM III ENG / MH2	3	22	22	2.3676	7.1028	Fair
	COMM III ENG / TFA	3	25	25	1.4536	4.3608	Very satisfactory
	COMM III ENG / TFE1	3	24	24	2.1345	6.4035	Satisfactory
	COMM III ENG / TFG	3	25	25	1.9674	5.9022	Satisfactory
	TOTAL	15				1.8471	Satisfactory
	DEV ST 111 / MHE	3	38	36	2.2834	6.8502	Fair
DEV ST 127 / MHB	3	36	36	1.7456	5.2368	Very satisfactory	
DEV ST 199.1 / TFK	3	17	15	2.2456	6.7368	Satisfactory	

Figure 35: Faculty Summarized Report

When the clerk clicks the download link, the DOC file of the faculty summarized report shown in Figure 36 will be downloaded.

UNIVERSITY OF THE PHILIPPINES MANILA
STUDENT EVALUATION OF TEACHERS

College: CAS Date: March 7, 2014, 8:46 pm
Sem/AY: 1 / 2013-2014

Name	Subject	Units	No. of Students	No. of Students Evaluated	Score	Total	Rating
ALEX GONZAGA	HI 299 / HAB	2	2	0	1.3055	2.6110	Very satisfactory
	STAT 121 LAB / TAB	1	15	0	1.8546	1.8546	Satisfactory
	STAT 121 LAB / TAB1	1	12	0	1.7834	1.7834	Satisfactory
	STAT 121 LEC / WABX	2	27	0	2.2456	4.4912	Satisfactory
	TOTAL	6			1.7900	Satisfactory	
ALICE ADEVA	COMM III ENG / MHE	3	24	0	1.3125	3.9375	Very satisfactory
	COMM III ENG / MH12	3	22	0	2.3676	7.1028	Fair
	COMM III ENG / TFA	3	25	0	1.4536	4.3608	Very satisfactory
	COMM III ENG / TFE1	3	24	0	2.1345	6.4035	Satisfactory
	COMM III ENG / TFG	3	25	0	1.9674	5.9022	Satisfactory
		TOTAL	15			1.8471	Satisfactory
	DEV ST 111 / MHE	3	38	0	2.2834	6.8502	Fair
	DEV ST 127 / MHB	3	36	0	1.7456	5.2368	Very satisfactory

Figure 36: DOC File of Faculty Summarized Report

The clerk can also view all records of the faculty summarized reports of the previous semesters as shown in Figure 37.

Online Student Evaluation of Teachers
University of the Philippines Manila

Welcome Ana. Logout

Faculty Summarized Report (College of Arts and Sciences)

View Report Search Report Archive

A.Y. Sem: 1st semester, A.Y. 2013-2014 Search

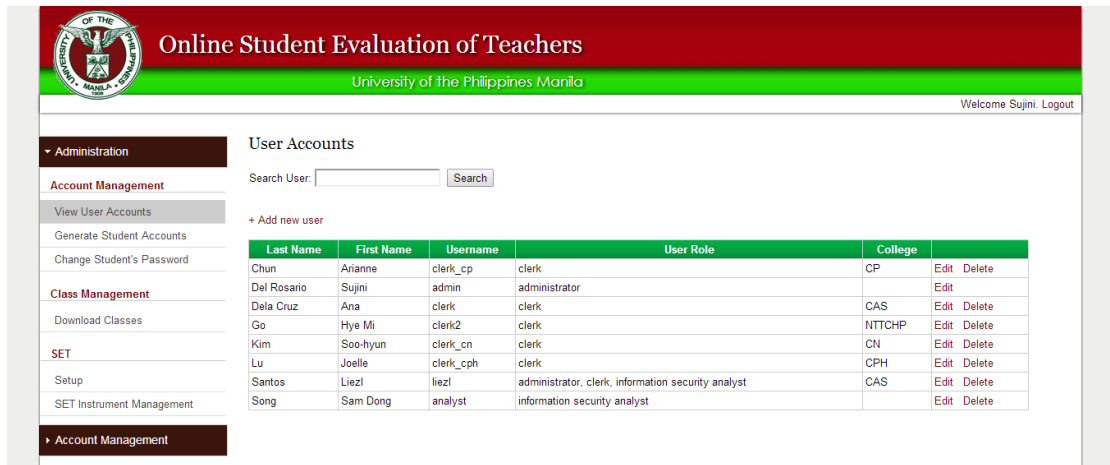
A.Y. Semester	College	College Code	
1st semester, A.Y. 2013-2014	College of Arts and Sciences	CAS	Download

Figure 37: Summarized Faculty Report Archive

D. Administrator View

Figure 38 shows the page where the administrator can view all the user accounts with administrator, clerk and information security analyst roles.

1. View User Accounts



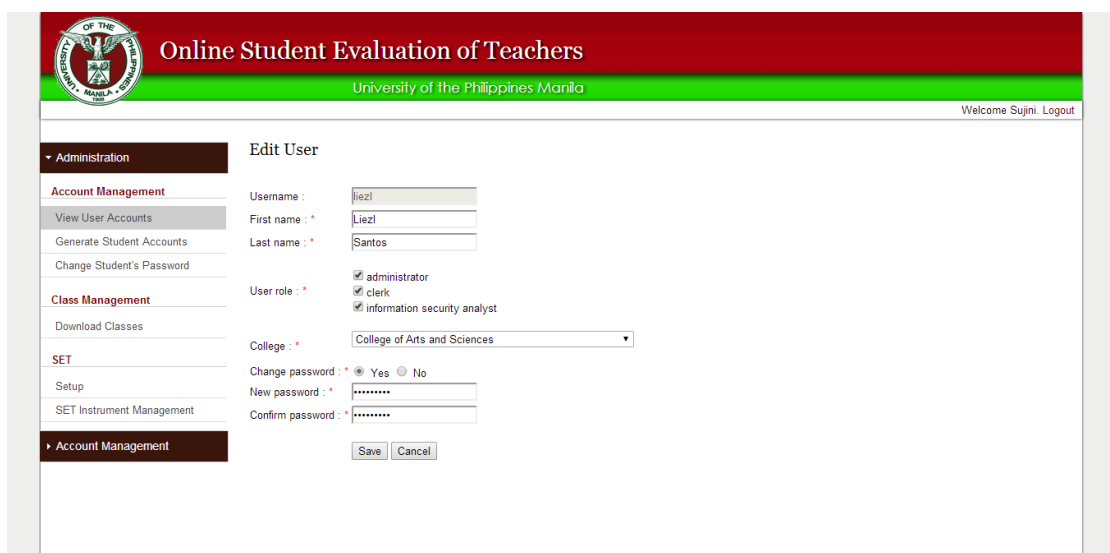
The screenshot displays the 'View User Accounts' page. The header includes the University of the Philippines Manila logo and the text 'Online Student Evaluation of Teachers' and 'University of the Philippines Manila'. A navigation menu on the left includes 'Administration', 'Account Management', 'Class Management', and 'SET'. The main content area shows a search bar and a table of user accounts.

Last Name	First Name	Username	User Role	College	Edit	Delete
Chun	Arienne	clerk_cp	clerk	CP	Edit	Delete
Del Rosario	Sujini	admin	administrator		Edit	
Dela Cruz	Ana	clerk	clerk	CAS	Edit	Delete
Go	Hye Mi	clerk2	clerk	NTTCHP	Edit	Delete
Kim	Soo-hyun	clerk_cn	clerk	CN	Edit	Delete
Lu	Joelle	clerk_cph	clerk	CPH	Edit	Delete
Santos	Liezi	liezi	administrator, clerk, information security analyst	CAS	Edit	Delete
Song	Sam Dong	analyst	information security analyst		Edit	Delete

Figure 38: View User Accounts

2. Edit User

Figure 39 shows the page where the administrator can update user account.



The screenshot displays the 'Edit User' page. The header is identical to Figure 38. The navigation menu on the left is the same. The main content area shows a form for editing user details.

Username :

First name :

Last name :

User role : administrator
 clerk
 information security analyst

College :

Change password : Yes No

New password :

Confirm password :

Figure 39: Edit User

3. Add New User

Figure 40 shows the page where the administrator can add a new user account.

The screenshot shows the 'Add New User' page in the 'Online Student Evaluation of Teachers' system. The page header includes the University of the Philippines Manila logo and the text 'Online Student Evaluation of Teachers' and 'University of the Philippines Manila'. A user greeting 'Welcome Sujini. Logout' is visible in the top right. The left sidebar contains a navigation menu with categories: Administration, Account Management, Class Management, SET, and Account Management. The main content area is titled 'Add New User' and contains the following form fields: Username (joowon), First name (Joo), Last name (Won), User role (checkboxes for administrator, clerk, and information security analyst, all checked), College (College of Medicine), Password (masked with dots), and Confirm password (masked with dots). 'Add' and 'Cancel' buttons are at the bottom of the form.

Figure 40: Add New User

4. Generate Students' Accounts

Figure 41 shows the page where the administrator can generate students' accounts.

The screenshot shows the 'Generate Student Accounts' page in the 'Online Student Evaluation of Teachers' system. The page header is identical to Figure 40. The left sidebar is the same. The main content area is titled 'Generate Student Accounts' and contains a warning message: 'Before importing the classlist make sure that the college clerks have already selected all the classes that will undergo evaluation process. After the students' accounts have been generated, downloading and selection of classes will be disabled.' Below the message is a link labeled 'Generate student accounts'.

Figure 41: Generate Students' Accounts

A PDF file containing the students' login details will be automatically downloaded as shown in Figure 42.

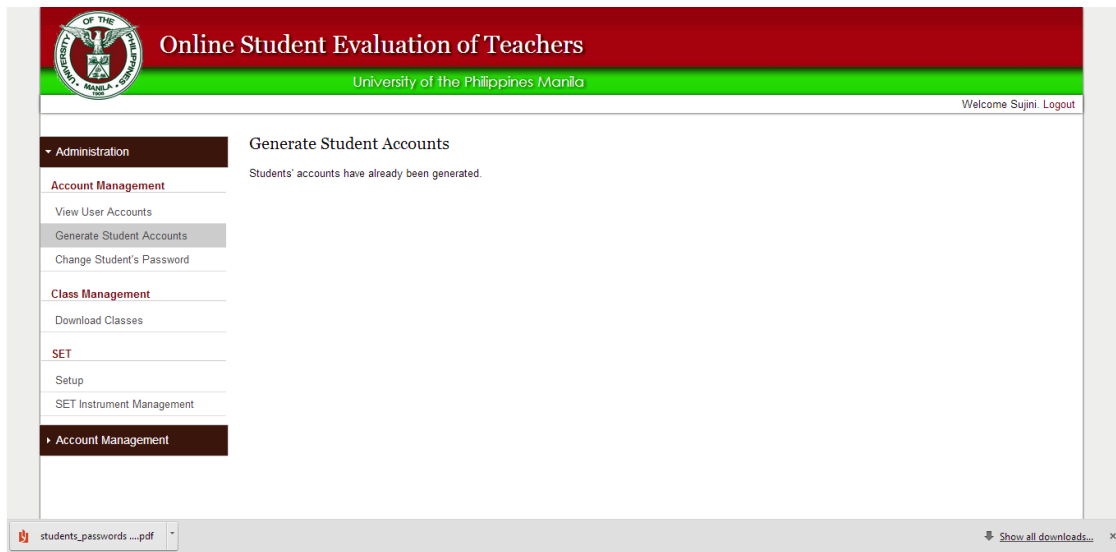


Figure 42: Generated Students' Accounts

5. Change Student's Password

Figure 43 shows the page where the administrator can change student's password.

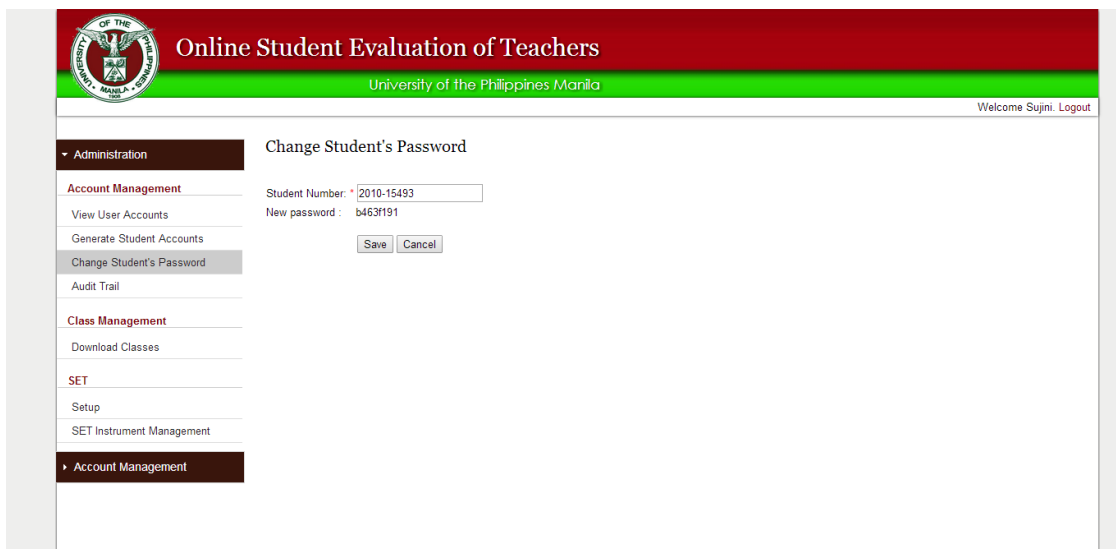


Figure 43: Change Student's Password

6. Download Classes

Figure 44 shows the page where the administrator downloads the classes of each college of the university.

The screenshot shows the 'Download Classes' page. The header includes the University of the Philippines Manila logo and the text 'Online Student Evaluation of Teachers' and 'University of the Philippines Manila'. A user greeting 'Welcome Sujini. Logout' is visible in the top right. A left sidebar contains navigation menus for 'Administration', 'Account Management', 'Class Management', 'SET', and 'Account Management'. The main content area is titled 'Download Classes' and contains a table with the following data:

College Name	College Code	Classes Downloaded
College of Allied Medical Professions	CAMP	Download classes
College of Arts and Sciences	CAS	Classes downloaded. Redownload classes
College of Dentistry	CD	Download classes
College of Medicine	CM	Download classes
College of Nursing	CN	Download classes
College of Pharmacy	CP	Download classes
College of Public Health	CPH	Download classes
National Teachers Training Center for Health Profession	NTTCHP	Classes downloaded. Redownload classes

Figure 44: Download Classes

7. SET Setup

Figure 45 shows the page where the administrator sets the academic year and semester of the evaluation process.

The screenshot shows the 'SET Setup' page. The header is identical to Figure 44. The left sidebar is the same. The main content area is titled 'SET Setup' and contains the following information:

The SET is currently set for 1st Semester Academic Year 2013-2014.

Academic Year : *

Semester : * First Second

Clicking save will delete all the records of the past SET setup.

Figure 45: Generate Students' Accounts

8. View SET Instruments

Figure 46 shows the page where the administrator can view all the uploaded SET instruments.

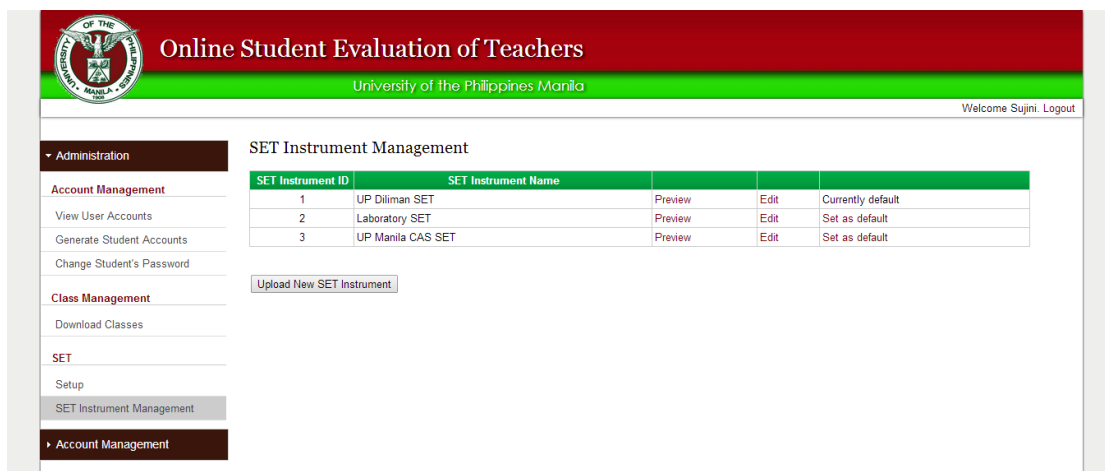


Figure 46: View SET Instruments

9. Preview of SET Instrument

The administrator can preview each SET instrument as shown in Figure 47.

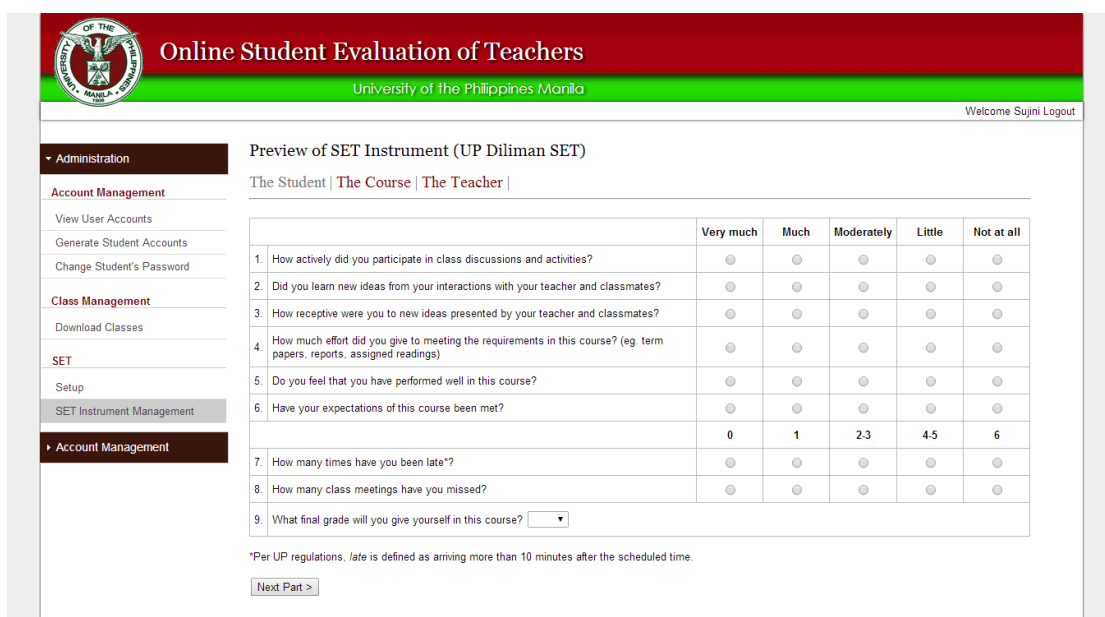


Figure 47: Preview of SET Instrument

10. Add New SET Instrument

Figure 48 shows the page where the administrator can upload a new SET instrument.

Figure 48: Add New SET Instrument

11. Audit Trail

Figure 49 shows the page where the administrator can view and delete records in the audit trail.

Name	Username	Action	Date/Time	
DEL ROSARIO, LIEZL	admin	Logged in	Mar 07 2014 07:44 PM	
DEL ROSARIO, LIEZL	admin	Logged in	Mar 06 2014 11:54 AM	
DEL ROSARIO, LIEZL	admin	Logged in	Mar 06 2014 11:10 AM	
SONG, SAM DONG	analyst	Logged in	Mar 06 2014 11:10 AM	
DEL ROSARIO, LIEZL	admin	Deleted user account	Mar 06 2014 11:06 AM	
DEL ROSARIO, LIEZL	admin	Added user account	Mar 06 2014 11:06 AM	
DEL ROSARIO, LIEZL	admin	Deleted user account	Mar 06 2014 11:03 AM	
DEL ROSARIO, LIEZL	admin	Added user account	Mar 06 2014 11:03 AM	
LOPEZ, NICOLE ANNE	2010-14484	Logged in	Feb 24 2014 11:23 PM	
DEL ROSARIO, LIEZL	admin	Deleted user account	Feb 24 2014 11:22 PM	
DEL ROSARIO, LIEZL	admin	Updated user account	Feb 24 2014 11:22 PM	
DEL ROSARIO, LIEZL	admin	Added user account	Feb 24 2014 11:21 PM	
SANTOS, LIEZL	2010-15493	Logged in	Feb 24 2014 11:17 PM	
DELA CRUZ, ANA	clerk	Logged in	Feb 24 2014 11:10 PM	
LOPEZ, NICOLE ANNE	2010-14484	Evaluated a class	Feb 24 2014 11:10 PM	

Figure 49: Audit Trail

E. Information Security Analyst View

1. Export Data from SET Instrument Tables

Figure 50 shows the page where the information security analyst can export CSV files of SET responses.

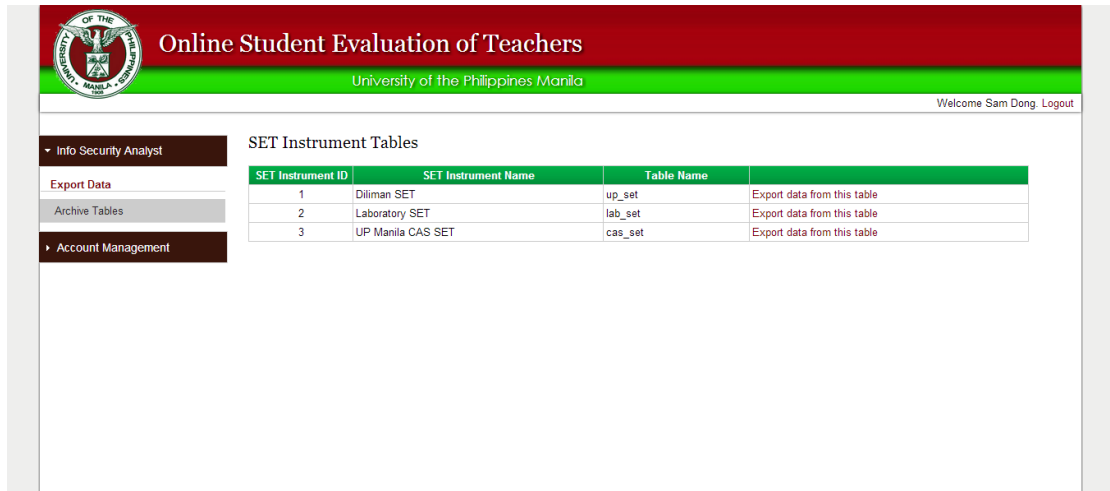


Figure 50: Export Data from SET Instrument Tables

When the information security analyst clicks the download link of a particular SET instrument, a CSV file, shown in Figure 51 which contains the SET responses for the current semester of all classes which used this SET instrument will be downloaded.

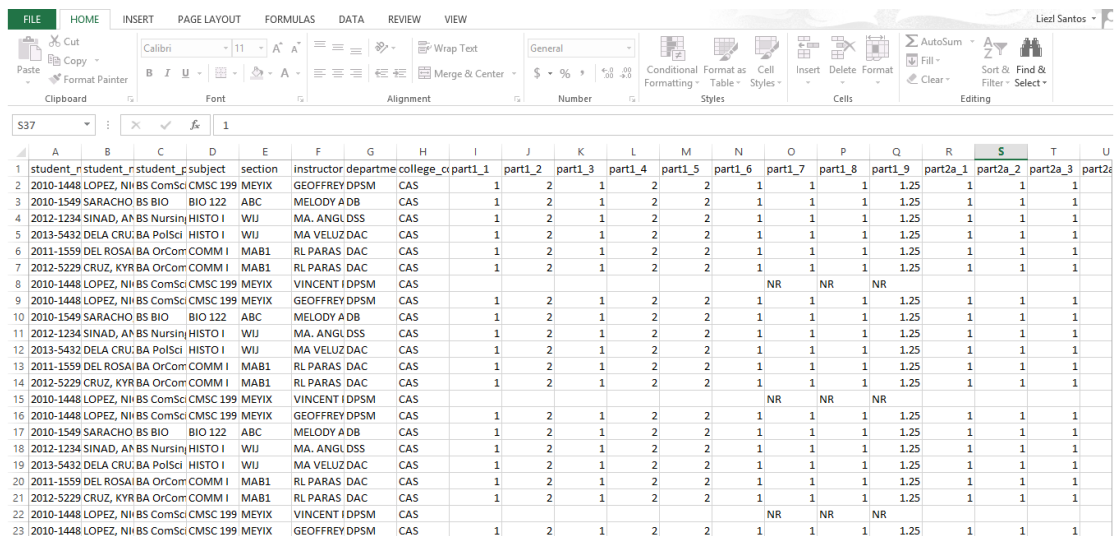


Figure 51: CSV file of SET Responses

2. De-identification Tool

Figure 52 shows the splash screen of the De-identification Tool. It momentarily appears while the program is loading.

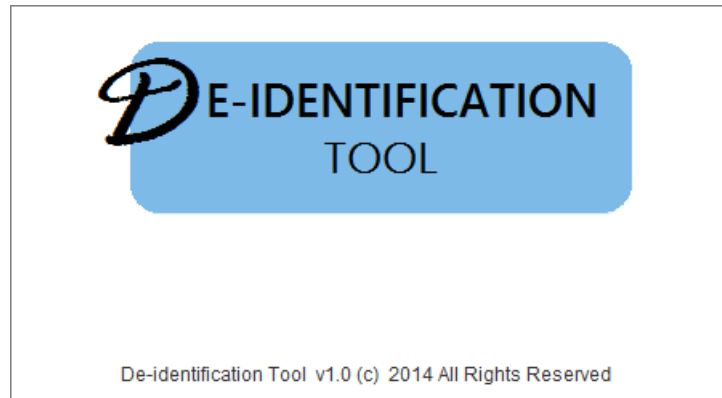


Figure 52: De-identification Tool Splash Screen

Figure 53 shows the startup screen of the De-identification Tool.

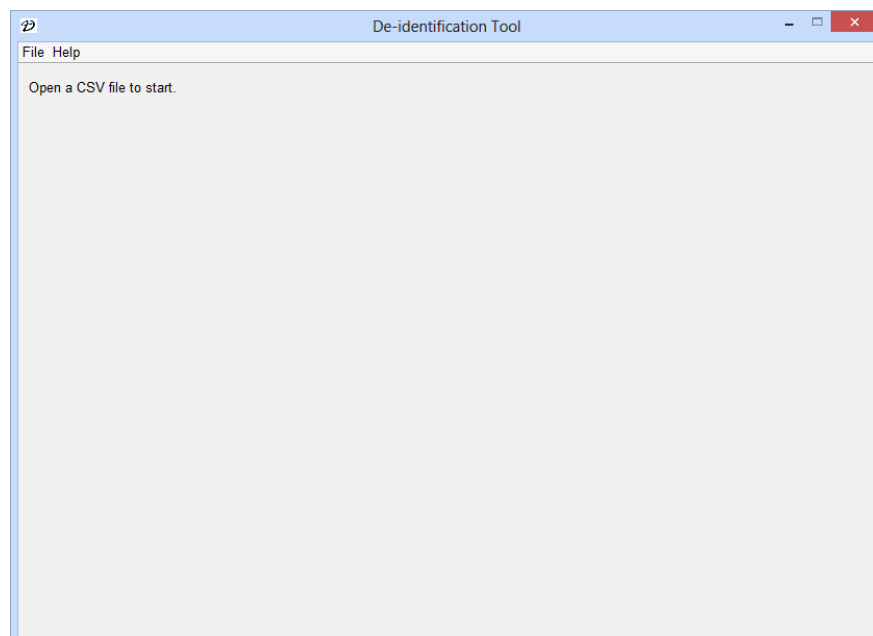


Figure 53: De-identification Tool Startup Screen

Figure 54 shows the dialog box that will appear when the information security analyst clicks 'Instructions' under the Help menu.

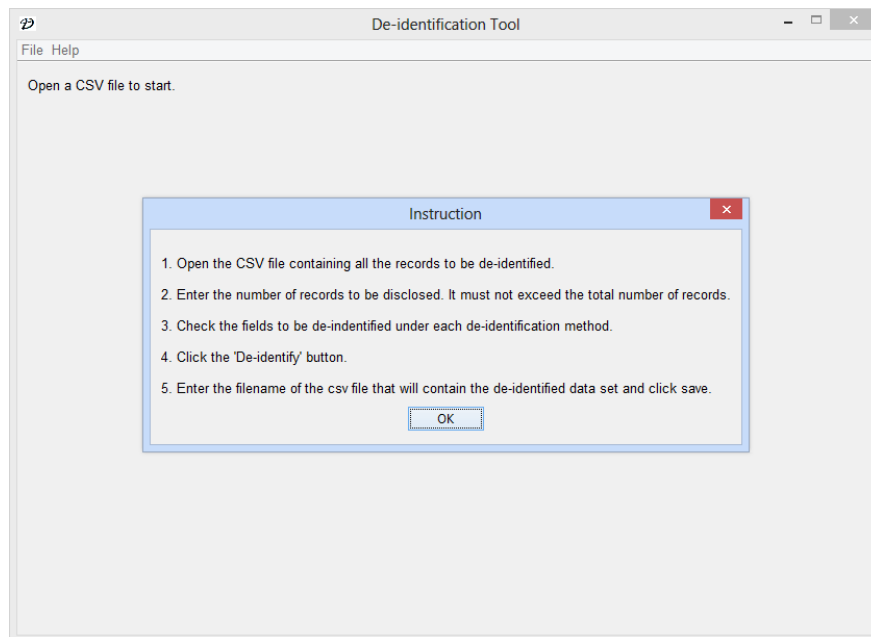


Figure 54: De-identification Tool Instruction Dialog Box

Under the File menu, the information security analyst clicks 'Open File' to choose a CSV file to be de-identified. Figure 55 shows the file open dialog box where the information security analyst can choose a CSV file to open.

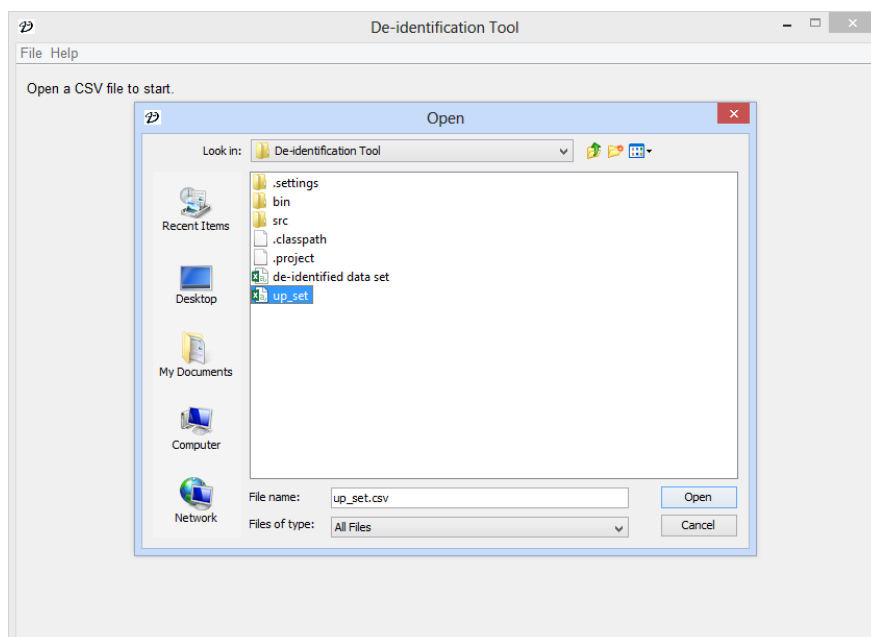


Figure 55: Opening a CSV File

After loading the CSV file, the information security analyst can choose the method to be used in each field to be de-identified. He/she can also indicate the number of records to be disclosed. This is illustrated in Figure 56.

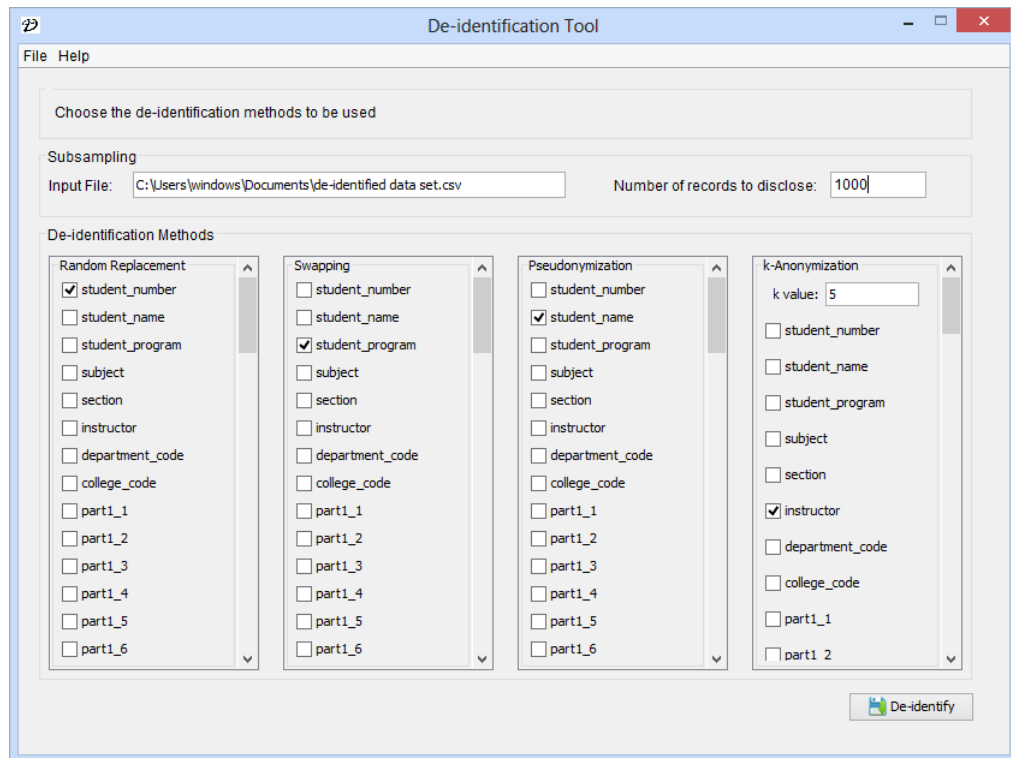


Figure 56: Choosing the De-identification Method(s) to be Used

After clicking the 'De-identify' button, a file save dialog box will appear where the information security analyst can input the desired filename of the CSV file containing the de-identified data set. This is shown in Figure 57.

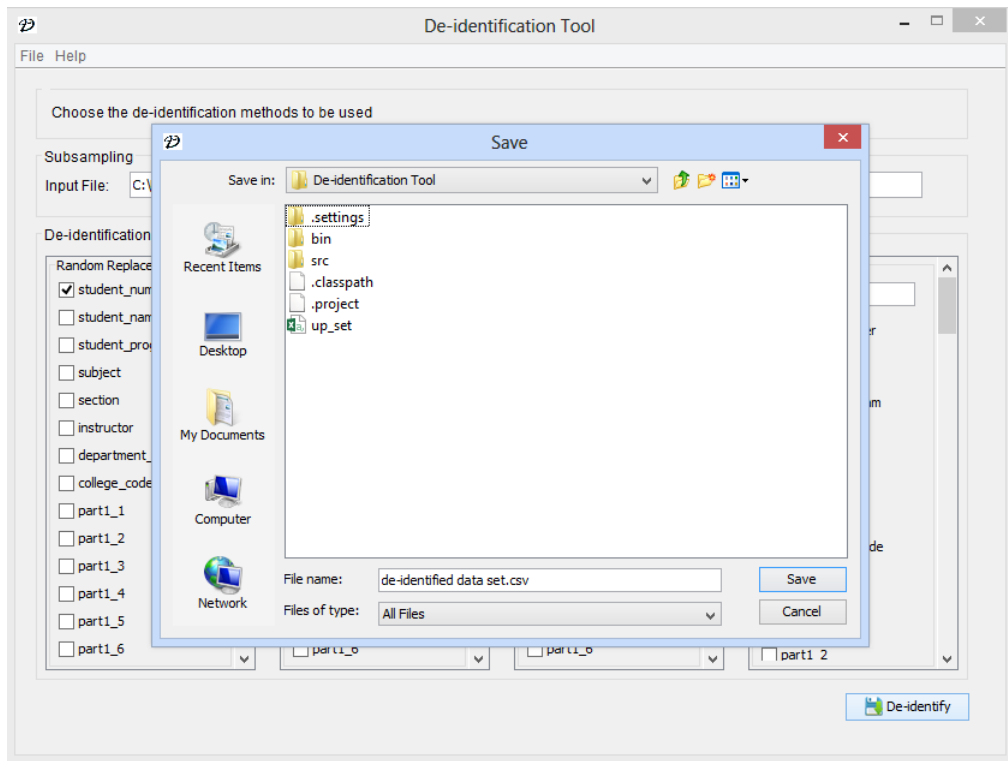


Figure 57: Saving the De-identified Data Set

Figure 58 shows the CSV file containing the de-identified data set generated by the application.

student_id	student_email	student_name	subject	section	instructor	department	college_code	part1_1	part1_2	part1_3	part1_4	part1_5	part1_6	part1_7	part1_8	part1_9	part2a_1	part2a_2	part2a_3	part2a_4
2010-1549	@820c0a	BS BIO	COMM I	MAB1	RL PARAS	DAC	CAS	1	2	1	2	2	1	1	1	1.25	1	1	1	1
2010-1549	@820c0a	BS BIO	COMM I	MAB1	RL PARAS	DAC	CAS	1	2	1	2	2	1	1	1	1.25	1	1	1	1
2010-1448	@0b1bd7	BS BIO	HISTO I	WUJ	MA. ANGL	DSS	CAS	1	2	1	2	2	1	1	1	1.25	1	1	1	1
2011-1559	@816151	BA PolSci	CMSC 199	MEYIX	VINCENT I	DPSPM	CAS							NR	NR	NR				
2012-1234	@acc36d6	BA PolSci	BIO 122	ABC	MELODY A	DB	CAS	1	2	1	2	2	1	1	1	1.25	1	1	1	1
2010-1549	@816151	BS ComSci	CMSC 199	MEYIX	VINCENT I	DPSPM	CAS							NR	NR	NR				
2010-1448	@33c6ee	BA OrCom	COMM I	MAB1	RL PARAS	DAC	CAS	1	2	1	2	2	1	1	1	1.25	1	1	1	1
2010-1448	@816151	BA OrCom	CMSC 199	MEYIX	VINCENT I	DPSPM	CAS							NR	NR	NR				
2010-1448	@33c6ee	BS BIO	COMM I	MAB1	RL PARAS	DAC	CAS	1	2	1	2	2	1	1	1	1.25	1	1	1	1
2013-5432	@0b1bd7	BS ComSci	HISTO I	WUJ	MA. ANGL	DSS	CAS	1	2	1	2	2	1	1	1	1.25	1	1	1	1
2012-5229	@816151	BA OrCom	CMSC 199	MEYIX	GEOFFREY	DPSPM	CAS	1	2	1	2	2	1	1	1	1.25	1	1	1	1
2012-1234	@816151	BS ComSci	CMSC 199	MEYIX	VINCENT I	DPSPM	CAS							NR	NR	NR				
2012-1234	@820c0a	BS ComSci	COMM I	MAB1	RL PARAS	DAC	CAS	1	2	1	2	2	1	1	1	1.25	1	1	1	1
2011-1559	@33c6ee	BS ComSci	COMM I	MAB1	RL PARAS	DAC	CAS	1	2	1	2	2	1	1	1	1.25	1	1	1	1
2010-1549	@acc36d6	BS Nursin	BIO 122	ABC	MELODY A	DB	CAS	1	2	1	2	2	1	1	1	1.25	1	1	1	1
2010-1549	@820c0a	BS Nursin	COMM I	MAB1	RL PARAS	DAC	CAS	1	2	1	2	2	1	1	1	1.25	1	1	1	1
2010-1448	@acc36d6	BA PolSci	BIO 122	ABC	MELODY A	DB	CAS	1	2	1	2	2	1	1	1	1.25	1	1	1	1
2010-1549	@c190144	BA PolSci	HISTO I	WUJ	MA VELLUZ	DAC	CAS	1	2	1	2	2	1	1	1	1.25	1	1	1	1
2012-5229	@820c0a	BS Nursin	COMM I	MAB1	RL PARAS	DAC	CAS	1	2	1	2	2	1	1	1	1.25	1	1	1	1
2010-1549	@c190144	BS BIO	HISTO I	WUJ	MA VELLUZ	DAC	CAS	1	2	1	2	2	1	1	1	1.25	1	1	1	1
2010-1448	@acc36d6	BA PolSci	BIO 122	ABC	MELODY A	DB	CAS	1	2	1	2	2	1	1	1	1.25	1	1	1	1
2011-1559	@816151	BS BIO	CMSC 199	MEYIX	VINCENT I	DPSPM	CAS							NR	NR	NR				

Figure 58: CSV file of the De-identified Data Set

The de-identified data set can then be used to conduct research. Suppose the researcher wants to test if BS Biochemistry students are more confident than BS Biology students that they performed well in MATH 17 based on how they grade themselves in the SET instrument. Fields that will not affect the result of the test but may be confidential such as student number, name of the student and name of the instructor will be pseudonymize. After pseudonymizing the student number and name, the only way the student can be identified is through his/her program. Suppose there is a Biology student enrolled in a class where he/she is the only Biology student, a classlist containing the list of the students with their program will identify the student. Hence, we should ensure that there should be at least k students with the same program under one class. The data is then subject to k -anonymization with k , say 5.

To illustrate, a data set is made to conduct the test using the UP Diliman SET instrument. In the data set, there are four Biology students that are enrolled in a class where they are the only Biology students. Since four is less than $k = 5$, we will lose the data about these students after the de-identification.

The original data set is imported using the statistical software R to perform a two independent sample t-test with the self-given grades of Biochemistry and Biology students. The test resulted to a p -value of 0.01163. With 5% level of significance, we reject the null hypothesis and conclude that Biochemistry students are indeed more confident than Biology students that they performed well in MATH 17.

The same test is done with the de-identified data set. This time, the test resulted to a p -value of 0.01601. At same level of significance, we also reject the null hypothesis and have the same conclusion. Since we loss some data due to k -anonymization, it is expected that we will get a different p -value. Nonetheless, the test is still statistically significant with $\alpha = 0.05$. Using the de-identified data set, hence, keeping the data confidential, same result can be obtained.

VII. Discussions

The Online Student Evaluation of Teachers (OSET) is an automation of the Student Evaluation of Teachers that is being implemented in the University of the Philippines Manila every semester. OSET 4.0 allows for the exporting of students' responses to test the effectiveness of a proposed SET instrument. The used of module-based questions is also a new feature of the system which offers greater exibility in modifying the SET instrument.

OSET 4.0 is a web-based PHP application built on the framework CodeIgniter. Like other PHP frameworks, CodeIgniter implements the model-view-controller (MVC) pattern. The view files coded in HTML, CSS, JavaScript and jQuery are loaded by the system controllers which extend the class `CI_controller`. The system connects to its databases using its models which extend the class `CI_model`. CodeIgniter made it easy to perform queries since databases were treated like objects with built-in methods such as `insert`, `delete`, `update`, etc. It is also possible to run any SQL queries directly using the `query` function.

The first issue encountered during the development of the system is to handle two database connections - one for the `crs2` database and another one for the main OSET database as a typical PHP application uses only one database as its data source. Fortunately, CodeIgniter allows multiple database connections. An option to turnoff persistent connection to a particular database made it possible for the system to run even though it is not connected to the `crs2` database. In fact, the system only connects to the `crs2` database when it downloads classes or students' information.

Another challenge is to handle a great number of records. When the system imports data from the `crs2` database, it needs to insert up to tens of thousands of records. The basic form of `INSERT` statement which inserts only one record at a time is not suitable to handle this job. Hence, the row value constructors feature of MySQL [23] was used to insert multiple records. `INSERT` statement which uses row constructor can insert up to 1000 records at a time.

Generating reports for hundreds of classes at a time resulted to timeout and memory errors as it takes time to compute for the SET results and it requires a lot of memory to generate hundreds of PDF files. To avoid allotting more memory and dramatically increasing the maximum execution time, cron, a time-based job scheduler for Unix [24] was used for report generation. For every five minutes, cron executes the script for generating PDF files of SET reports for at most 10 classes that are already closed for evaluation. In case the clerk wants to view a class report that has not yet been generated, the system will automatically generate the report for that specific class.

In generating PDF files, dompdf was used. Dompdf directly converts HTML to PDF. The appearance of the reports can be easily modified because it reads external stylesheets, inline style tags, and the style attributes of individual HTML elements. It also supports most presentational HTML attributes [25]. Using dompdf allows different SET instruments to have different report formats indicated in the instrument's report view file which is written in PHP.

The used of module-based questions offers greater flexibility to the SET instrument as the developer can modify the structure of the table to be used by the SET instrument. He/she can also modify the appearance and questions of the SET instrument freely as it was done through coding. Unlike the OSET 3.0, insertion of dependencies among questions (e.g. when a user answers 'yes' to a previous question, a textbox must appear) can be easily implemented as the developer can also edit the script used by the SET instrument in its view file. Internal CSS of the SET instrument can be modified as well. However, since everything was done in code level, a developer with enough knowledge about CodeIgniter is needed to make a new SET instrument.

The anonymization of SET responses was supposed to be a feature of OSET 4.0 but to avoid high server load caused by operations on thousands of records, a separate client application – De-identification Tool was made. The De-identification Tool to be used by the information security analyst to anonymize SET responses

is a stand-alone application built in Java. The opencsv library [26] was used to read, parse and write CSV files. Since the application is not web based, problems resulting from operations on large data sets (e.g. timeout errors) were addressed.

VIII. Conclusions

The Online Student Evaluation of Teachers 4.0 allows students to evaluate the teaching performance of their instructors based on the classes that they have handled. Only students with at least one class selected to undergo evaluation process will be given access to the OSET. They will login to the system using their student number as username and a password generated by the administrator. They can evaluate a class where they are currently enrolled in given that it is already open for evaluation process.

The OSET system can be implemented in a university wide scale as it is capable of accepting college clerks from different colleges. Generally, the college clerk will have the authority to select classes that will undergo SET. After the administrator generated the student accounts, the clerk can open the evaluation period of a class which can be done by batch. In addition, he/she can view and print a list of students who still have unevaluated classes. SET score of a class will be automatically computed and available for viewing once the clerk chooses to close its evaluation period. A detailed report of SET responses per class can also be viewed and downloaded. The clerk can also view and download a faculty summarized report containing the SET scores of all the faculty whose classes that were selected to undergo SET are already closed for evaluation.

An information security analyst exports the CSV files which contains the SET responses. He/she selects the fields to be de-identified as well as the de-identification method to be used using the stand-alone de-identification application. He then saves the de-identified data set for the use of researcher.

Finally, an administrator is responsible for adding, editing or deleting user accounts with administrator, clerk and information security analyst roles. He/she is capable of allowing users to have multiple roles (e.g. a user can be an administrator and/or a college clerk and/or an information security analyst). The administrator also setups the academic year and semester of the evaluation process. He/she is the one responsible for the downloading of classes for each college

that will undergo SET from the `crs2` database. After the clerk selected all the classes the will undergo evaluation, the administrator then generates accounts for students. A PDF file containing the students' login details will be automatically downloaded. Student accounts cannot be modified by the administrator but he/she has the privilege to change the accounts' password.

IX. Recommendations

Aside from the SET reports in PDF and DOC formats that are generated by OSET 4.0, a graphical representation of SET scores for better comprehension can be integrated to the system.

As for the De-identification Tool, other perturbative and nonperturbative methods such as rounding and aggregation can be implemented so that the tool can be used to de-identify variety of data sets, not just focusing on the nature of the SET responses. Also, techniques to de-identify unstructured data such as using regular expressions to remove phone number, email addresses and other identifiers from a free-form text can also be integrated to the application. A filter feature can be included as well to allow de-identification of only the records that matched the indicated criteria (e.g. de-identifying SET responses of classes of a specific department).

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XI. Appendix

A. Forms

1. UP Diliman SET

UNIVERSITY OF THE PHILIPPINES MANILA
STUDENT EVALUATION OF TEACHER

Course Code: _____ Semester: 1 2 Summer AY ____ - ____
 Section: _____ Year Level: _____
 Degree Program: _____ Major: _____
 College: _____
 Faculty Code: _____ Sex of Teacher: [] Male [] Female

Dear Student:

In the interest of improving the quality of teaching in the College, we would like you to give your perceptions/judgments of your performance, the course, and your instructor. Please answer each item frankly, honestly, and independently. Answer all items. Your response and opinions will be held in strict confidence and will not affect your grade in this subject. Results of this evaluation will only be available to the instructor in the next semester.

Part I. The Student

Directions: Please answer the following questions by circling one of the numbers 1 to 5. The numbers have the following meanings:

1 - Very much 2 - Much 3 - Moderately 4 - Little 5 - Not at all

	Very Much	2	3	4	5	Not at All
1. How actively did you participate in class discussions and activities?	1	2	3	4	5	
2. Did you learn new ideas from your interactions with your teacher and classmates?	1	2	3	4	5	
3. How receptive were you to new ideas presented by your teacher and classmates?	1	2	3	4	5	
4. How much effort did you give to meeting the requirements in this course? (e.g., term papers, reports, assigned readings)	1	2	3	4	5	
5. Do you feel that you have performed well in this course?	1	2	3	4	5	
6. Have your expectations of this course been met?	1	2	3	4	5	
7. How many times have you been late*? Circle one.			0	1	2-3	4-5 6
8. How many class meetings have you missed? Circle one.			0	1	2-3	4-5 6
9. What final grade will you give yourself in this course? Circle one.			1.0	1.25	1.5	1.75 2.0 2.25 2.5 2.75 3.0 4.0 5.0 INC

*Per UP regulations, late is defined as arriving more than 10 minutes after the scheduled time.

Part II. A. The Course:

Directions: Indicate your agreement or disagreement with each of the following statements by encircling one of the following to indicate your answer:

SA - Strongly Agree A - Agree D - Disagree SD - Strongly Disagree

	Strongly Agree	A	D	SD	Strongly Disagree
1. This course stimulates me to study beyond the lesson assigned.	SA	A	D	SD	
2. This course has developed in me a greater sense of responsibility. (e.i., self-reliance, self-discipline, independent study)	SA	A	D	SD	
3. I have worked more conscientiously in this course than in most other courses.	SA	A	D	SD	
4. Even if this course were not required, it would still be worthwhile taking it.	SA	A	D	SD	
5. I am fully satisfied with the way this course was handled/conducted.	SA	A	D	SD	
6. This course stimulates me to think creatively.	SA	A	D	SD	
7. This course develops critical thinking.	SA	A	D	SD	

Figure 59: Page 1 of UP Diliman SET

Part II. B.

1. Does the class have a syllabus or expanded outline for the course? Yes No
 1.1. If yes, have there been departures from the syllabus? Yes No
 1.1.1. If yes, please describe the nature of the departure(s) from the syllabus.

- 1.1.2. Do you think the departure(s) from the syllabus was/were necessary and benefited the class? Yes No
2. How would you rate the overall pace of this course? Check One. Too fast Fast Just right Slow
 Too slow Others. Specify _____
3. How much have you learned from this course? Circle one. 1 - Very Much 2 - Much 3 - Some
 4 - Very little 5 - Nothing
4. To what extent, would you say, have the objectives of this course been attained? Circle one. 1 - Very Much 2 - Much 3 - Moderately
 4 - Slightly 5 - Not at all
5. What other objectives would you recommend for inclusion in this course?

6. In your opinion, how can this course be further improved?

Part III. A. The Teacher

Directions: Please rate the teacher on each of the items listed below. Encircle one of the following to indicate your answer.

SA - Strongly Agree A - Agree D - Disagree SD - Strongly Disagree
 Circle NA for not applicable

The teacher of this course	Strongly Agree	Agree	Disagree	Strongly Disagree	NA
1. Explains the course objectives, expectations, and requirements of the course	SA	A	D	SD	NA
2. Comes to class unprepared for the lesson.	SA	A	D	SD	NA
3. Presents the subject matter clearly and systematically.	SA	A	D	SD	NA
4. Relates the course to other fields and current issues/concerns.	SA	A	D	SD	NA
5. Fosters a stimulating atmosphere which encourages students to participate in class discussions/activities.	SA	A	D	SD	NA
6. Stimulates the students to study more about the subject.	SA	A	D	SD	NA
7. Does not encourage students to do their best.	SA	A	D	SD	NA
8. Speaks clearly and audibly.	SA	A	D	SD	NA
9. Uses appropriate teaching techniques and instructional materials.	SA	A	D	SD	NA
10. Does not respect student's ideas and viewpoints.	SA	A	D	SD	NA
11. Explains concepts again when he/she notes that the concept is not well understood.	SA	A	D	SD	NA
12. Identifies and stresses important points.	SA	A	D	SD	NA
13. Demonstrates thorough and broad knowledge of the subject of the course.	SA	A	D	SD	NA
14. Uses evaluation measures, tests which adequately sample what was covered in the course.	SA	A	D	SD	NA

Figure 60: Page 2 of UP Diliman SET

2. Laboratory SET

COLLEGE OF ARTS AND SCIENCES
University of the Philippines Manila
EVALUATION FOR LABORATORY COURSES IN SCIENCES AND MATHEMATICS

SUBJECT : _____ SEMESTER : FS SS AY _____
 DAYS/TIME : _____ YEAR LEVEL : I II III IV
 DEGREE PROGRAM: _____ MAJOR : _____
 COLLEGE : _____ DATE : _____
 INSTRUCTOR'S CODE : _____ Sex of Teacher : [] Male [] Female

Dear Student:

In the interest of improving the quality of teaching in the College, we would like you to give your perceptions/judgements of your performance, the course, and your instructor. Please answer each item frankly, honestly, and independently. Answer all items. Your responses and opinions will be held in strict confidence and will not affect your grade in this subject. Results of this evaluation will only be made available to the instructor after the semester.

Part I. The Student

Directions: Please answer the following questions by encircling one of the numbers 1 to 5. The numbers have the following meanings. **1 - Very Much 2 - Much 3 - Moderately 4 - Little 5 - Not at All**

1. How actively did you participate in laboratory and post-lab discussions?	1	2	3	4	5							
2. Did you learn new ideas from your experiments and discussions?	1	2	3	4	5							
3. How receptive were you to new ideas learned from experiments?	1	2	3	4	5							
4. How much effort did you give to meet the requirements of this course? (experiments, written reports, oral reports, others)	1	2	3	4	5							
5. Do you feel that you have performed well in this course?	1	2	3	4	5							
6. Have your expectations of the course been met?	1	2	3	4	5							
7. How many times have you been late? Encircle one.*	0	1	2-3	4-5	6							
8. How many class meetings have you missed? Encircle one.	0	1	2-3	4-5	6							
9. What final grade will you give yourself in this course?	1.0	1.25	1.5	1.75	2.0	2.25	2.50	2.75	3.0	4.0	5.0	INC.

*Per UP regulation, late is defined as arriving more than 10 minutes after the scheduled time.

Part II. The Course

Directions: Indicate your agreement or disagreement to each of the following statements by encircling one of the following to indicate your answer. **SA - Strongly Agree A - Agree D - Disagree SD - Strongly Disagree**

1. This course stimulates me to study beyond the coverage of the class experiment/exercises.	SA	A	D	SD
2. This course has developed in me a greater sense of responsibility. (i.e., self-reliance, self-discipline, independent study)	SA	A	D	SD
3. I have worked more conscientiously in this course than in most courses	SA	A	D	SD
4. Even if this course were not required, it would still be worthwhile taking it.	SA	A	D	SD
5. I am fully satisfied with the way this course was handled/conducted	SA	A	D	SD

Part II. B.

1. Does this course have a manual with a sequence of experiments? [] Yes [] No
 1.1. If yes, have there been departures from the manual? [] Yes [] No
 1.1.1 If yes, please describe the nature of the departure(s) from the manual

 1.1.2 Do you think the departure/s from the manual was/were necessary and benefited the class? [] Yes [] No

2. How would you rate the overall pace of this course? Check one. [] Too fast [] Fast [] Just right [] Slow
 [] Too slow [] Other. Specify: _____

3. How much have you learned from this course? Circle one. 1 - Very Much 2 - Much 3 - Some
 4 - Very Little 5 - Nothing

4. To what extent, would you say, have the objectives of this course attained? Circle one.
 1 - Very Much 2 - Much 3 - Some 4 - Very Little 5 - Nothing

5. What other objectives would you recommend for inclusion in this course?

6. In your opinion, how can this course be further improved?

Figure 62: Page 1 of Laboratory SET

Part III. The Teacher

Directions: Please rate the teacher on each item below Encircle your answer.

	SA – Strongly Agree	A – Agree	D – Disagree	SD – Strongly Disagree	
The teacher of this course:					
1. Explains the course objectives, grading system and policies	SA	A	D	SD	NA
2. Gives preliminary instructions and precautions when necessary	SA	A	D	SD	NA
3. Checks student preparation for the laboratory activity	SA	A	D	SD	NA
4. Explains the proper use of apparatus to students	SA	A	D	SD	NA
5. Supervises students' activities	SA	A	D	SD	NA
6. Utilizes laboratory time to the maximum	SA	A	D	SD	NA
7. Devotes enough time to each experiment	SA	A	D	SD	NA
8. Sees to it that students leave their areas in good order	SA	A	D	SD	NA
9. Clarifies and reinforces discussions during oral reports	SA	A	D	SD	NA
10. Asks relevant questions during examination	SA	A	D	SD	NA
11. Treats students tactfully, does not embarrass them	SA	A	D	SD	NA
12. Invites respect through behavior and general appearance	SA	A	D	SD	NA
13. Maintains an orderly atmosphere in the laboratory	SA	A	D	SD	NA
14. Is firm and consistent ; strict but reasonable in disciplining students	SA	A	D	SD	NA
15. Motivates the students to think critically	SA	A	D	SD	NA
16. Is able to communicate effectively	SA	A	D	SD	NA

Part III. B.

1. How many times has the teacher been late? Circle one.	0	1	2-3	4-5	6
2. How many class meetings has the teacher missed?	0	1	2-3	4-5	6
3. The teacher generally dismisses the class (check one)	On time	Early	Late	----	----
4. How soon does the teacher post results or return corrected laboratory reports, quizzes, exam papers, etc.	One week	Two weeks	One Month	More than One Month	Never
5. Is the teacher fair in giving grades? Circle one.	1 - Always	2 - Usually	3 - Sometimes	4 - Rarely	5 - Never

Explain your answer:

Among the UP teachers you have had, how would you rate this teacher? Check one.

The best Among the best Average Among the worst The worst

Part IV.

What are the faculty member's strong points? Areas for improvement.

Date: _____

THANK YOU FOR YOUR COOPERATION..!

Figure 63: Page 2 of Laboratory SET

Part I. The Student

1. Please encircle the number that corresponds to your response: How active have you been participating in this class (e.g., by way of recitation, reporting, class discussions, other class activities)?

- [1] very active
- [2] somewhat active
- [3] not active
- [4] did not participate at all

1. Since the start of the semester, how many times have you been absent in this class? _____
(indicate actual number of absences)
2. Since the start of the semester, how many times have you been late in this class? _____
(indicate actual number of tardiness)

Part II. The Course

Please answer the following questions by encircling the number that corresponds to your answer:

In this subject...

1. How many class days per week do you have? [1] 2 days (e.g. MTh, TF)
[2] 1 day (e.g. every Wednesday or Saturday)
[3] more than 2 days a week
2. What time of day in this class?
[1] early morning (7-10 am) [3] early afternoon (1-3 pm)
[2] mid-morning (10-12 am) [4] late afternoon/evening (4-8:30 pm)
3. How many hours do you spend per class session?
(1) 1.5 hrs or less (2) 3 hrs or more
4. What is the nature of your class?
[1] lecture class only [3] combined lecture and laboratory (continuous under 1 teacher)
[2] laboratory class only [4] PE class

For #1 to #4, encircle the number that corresponds to the way you think or feel about this subject, where "1" refers to the most negative perception and "4" to the most positive perception about this subject.

5. Before you enrolled in this subject, have you thought of it as ...
1-----2-----3-----4
very quite quite very
uninteresting uninteresting interesting interesting
6. Now that you are taking this subject, do you regard it as...
1-----2-----3-----4
very quite quite very
uninteresting uninteresting interesting interesting
7. Before you enrolled in this subject, have you thought of it as ...
1-----2-----3-----4
very quite quite very
difficult difficult easy easy
8. Now that you are taking this subject, do you regard it as ...
1-----2-----3-----4
very quite quite very
difficult difficult easy easy

Figure 65: Page 2 of CAS 2011 SET

9. How many times have you taken this course (i.e. either because you failed or dropped the course in the past)?

- [1] once, my first time
- [2] twice, my second time
- [3] 3 or more times

Part III: The Teacher

Please rate how this course has been, so far, taught or handled by your teacher by encircling the appropriate number in the response option of each item, where

- SA – Strongly agree (1)**
- MA - Moderately agree (2)**
- SmA - Somewhat agree (3)**
- SmD- Somewhat disagree (4)**
- MD - Moderately disagree (5)**
- SD- Strongly disagree (6)**

Again, please be reminded to answer these questions as closely as possible to the way you actually think and feel. Be assured that your answers will be treated with utmost confidentiality.

My teacher.....	RESPONSE OPTIONS					
	SA	MA	SmA	SmD	MD	SD
1. Shows broad and indepth knowledge of the subject.	1	2	3	4	5	6
2. Provides a well-thought out syllabus or course outline.	1	2	3	4	5	6
3. Provides up-to-date information about the subject matter.	1	2	3	4	5	6
4. Can answer satisfactorily questions from the students.	1	2	3	4	5	6
5. Has adequate knowledge about issues related to the subject matter.	1	2	3	4	5	6
6. Can explain very well a difficult subject matter to the students.	1	2	3	4	5	6
7. Consults students on matters related to the conduct of the course.	1	2	3	4	5	6
8. Presents the subject matter clearly and systematically.	1	2	3	4	5	6
9. Often comes to class unprepared for the lesson.	1	2	3	4	5	6
10. Explains again when he/she feels that the concept is not well understood by the students.	1	2	3	4	5	6
11. Uses evaluation measures or tests that adequately sample what	1	2	3	4	5	6
12. Explains the course objectives, expectations, and requirements.	1	2	3	4	5	6
13. Provides immediate feedback on student performance (e.g., giving back results of exams).						
14. Makes use of other teaching techniques (e.g., film showing, group dynamics, slide/powerpoint presentations, field trips) aside from pure lectures, class reporting, and class discussions.	1	2	3	4	5	6
15. Presents clear rules to be followed by students in class (e.g., on tardiness, absences, use of cellphones, going out during class, etc.).	1	2	3	4	5	6
16. Is firm and consistent, strict but reasonable in disciplining students.	1	2	3	4	5	6
17. Fosters a stimulating atmosphere which encourages students to participate in class discussions and other class activities.	1	2	3	4	5	6

Figure 66: Page 3 of CAS 2011 SET

My teacher...	SA	MA	SmA	SmD	MD	SD
18. Is often not available for consultation	1	2	3	4	5	6
19. Can manage students who are unruly, noisy and inattentive.	1	2	3	4	5	6
20. Is often absent in class (i.e., more than 5 absences since start of semester).	1	2	3	4	5	6
21. Is often late in class (i.e., at least once every week).	1	2	3	4	5	6
22. Does not respect students' ideas and viewpoints.	1	2	3	4	5	6
23. Gives constructive criticisms of students' work.	1	2	3	4	5	6
24. Is tactful and polite in dealing with students.	1	2	3	4	5	6
25. Attempts to understand students' needs and issues in life.	1	2	3	4	5	6
26. Can be easily approached by students.	1	2	3	4	5	6
27. Plays favoritism among his/her students.	1	2	3	4	5	6
28. Is clean, neat and well-groomed.	1	2	3	4	5	6
29. Often comes to class in proper (presentable, respectable) attire.	1	2	3	4	5	6
30. Commands respect; behaves properly in class.	1	2	3	4	5	6
31. Is pleasant, inspiring, and motivating.						
32. Is psychologically or emotionally unpredictable (e.g., irrational emotional outbursts).	1	2	3	4	5	6
33. Has a clear and audible voice; fluent in her/his speech.	1	2	3	4	5	6
34. Stimulates me to study further.	1	2	3	4	5	6
35. Has developed in me a greater sense of responsibility.	1	2	3	4	5	6
36. Has inculcated in me more self-reliance and self-discipline.	1	2	3	4	5	6
37. Has developed in me critical and creative thinking.	1	2	3	4	5	6
38. Has helped me understand my own self, other people, society and the physical and biological environment.	1	2	3	4	5	6
39. Enlightened me with regard to my goals and direction in life.	1	2	3	4	5	6

40. What are the teacher's strong points?

41. What are the teacher's weak points?

42. In what areas should the teacher make MUCH improvement?

- | | |
|-----------------------------------|--------------------------------------|
| [1] Knowledge about the subject | [4] Relationship with students |
| [2] Style of teaching | [5] Personality of teacher |
| [3] Class management skills | [6] Impact of teaching on students |


=====

MARAMING SALAMAT PO.

Date: _____

Figure 67: Page 4 of CAS 2011 SET

4. UP Manila VCAA SET



University of the Philippines Manila

STUDENT EVALUATION OF TEACHERS (SET)

SET LOGOUT
Hello, Liel.

UPM SET Part 1. The Teacher

Please evaluate the teacher based on the parameters below. All the parameters included below are deemed evaluable by the students.

1. My Teacher *

(for team teaching, please specify instructor you are evaluating here)

	Strongly Agree	Agree	Disagree	Strongly Disagree
1.1. explains the course outline, objectives, expectations, and requirements.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1.2. establishes relevance of the subject.	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
1.3. is knowledgeable and up-to-date about the subject matter.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1.4. answers questions from the students satisfactorily.	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
1.5. presents the subject matter clearly and systematically.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1.6. often comes to class prepared for the lesson.	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
1.7. makes use of varied and appropriate teaching techniques.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1.8. fosters a stimulating atmosphere which encourages students to participate in class discussions and other class activities.	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
1.9. speaks clearly and audibly; is fluent in his/her speech.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1.10. engages students in critical and creative thinking.	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
1.11. presents clear rules to be followed by students in class.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1.12. is often available for consultation.	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
1.13. ensures class discipline.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1.14. comes to class regularly.	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
1.15. starts and ends the class on time.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

* - required fields

< Back
Next >

Figure 68: Page 1 of UP Manila VCAA SET



Please evaluate the teacher based on the parameter below. All the parameters included below are deemed evaluable by the students.

1. My Teacher *

		Strongly Agree	Agree	Disagree	Strongly Disagree
1.16.	respects students' ideas and viewpoints.	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1.17.	can be easily approached by students.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1.18.	exhibits professionalism in conduct and appearance.	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1.19.	uses evaluation measures that adequately samples what was covered in the course.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1.20.	provides timely feedback on student performance.	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

* - required fields

2. What are this teacher's strong points?

3. In what areas can the teacher improve?

4. Other comments and suggestions for the teacher?

Figure 69: Page 2 of UP Manila VCAA SET



UPM SET Part 2. Student Engagement

Please reflect on and rate your participation and performance in this class.

5. In this class, *

	Strongly Agree	Agree	Disagree	Strongly Disagree
5.1. I actively participate in discussions and activities.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
5.2. I have learned a lot.	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
5.3. I am stimulated to think critically and creatively.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
5.4. my interest in the field of study has increased.	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
5.5. I have been challenged to learn more than I expected.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

6. In this class, *

	0	1-2	3-4	5+
6.1. I have spent ___ hours per week doing work outside of class hours.	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
6.2. I have been late ___ times.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
6.3. I have been absent ___ times.	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
6.4. I have spent ___ hours per week doing course-related work outside of class.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Please indicate any additional comments regarding your student engagement for this class below.

7. My overall assessment of this teacher for this course is *

- Outstanding
 Very Satisfactory
 Satisfactory
 Needs Improvement

SUBMIT

* - required fields

Figure 70: Page 3 of UP Manila VCAA SET

B. Source Code

1. Configuration Files

```
1 <?php if ( ! defined('BASEPATH')) exit('No direct script access allowed');
2
3 /*
4 |-----
5 | Base Site URL
6 |-----
7 |
8 | URL to your CodeIgniter root. Typically this will be your base URL,
9 | WITH a trailing slash:
10 |
11 | http://example.com/
12 |
13 | If this is not set then CodeIgniter will guess the protocol, domain and
14 | path to your installation.
15 |
16 */
17 $config['base_url'] = 'http://berdugo.upm.edu.ph/~lsantos/oset4/';
18
19 /*
20 |-----
21 | Index File
22 |-----
23 |s
24 | Typically this will be your index.php file, unless you've renamed it to
25 | something else. If you are using mod_rewrite to remove the page set this
26 | variable so that it is blank.
27 |
28 */
29 $config['index_page'] = 'index.php/';
30
31 /*
32 |-----
33 | URI PROTOCOL
34 |-----
35 |
36 | This item determines which server global should be used to retrieve the
37 | URI string. The default setting of 'AUTO' works for most servers.
38 | If your links do not seem to work, try one of the other delicious flavors:
39 |
40 | 'AUTO' Default - auto detects
41 | 'PATH_INFO' Uses the PATH_INFO
42 | 'QUERY_STRING' Uses the QUERY_STRING
43 | 'REQUEST_URI' Uses the REQUEST_URI
44 | 'ORIG_PATH_INFO' Uses the ORIG_PATH_INFO
45 |
46 */
47 $config['uri_protocol'] = 'AUTO';
48
49 /*
50 |-----
51 | URL suffix
52 |-----
53 |
54 | This option allows you to add a suffix to all URLs generated by CodeIgniter.
55 | For more information please see the user guide:
56 |
57 | http://codeigniter.com/user_guide/general/urls.html
58 */
59
60 $config['url_suffix'] = '';
61
62 /*
63 |-----
64 | Default Language
65 |-----
```

```

66 |
67 | This determines which set of language files should be used. Make sure
68 | there is an available translation if you intend to use something other
69 | than english.
70 |
71 */
72 $config['language'] = 'english';
73
74 /*
75 |-----
76 | Default Character Set
77 |-----
78 |
79 | This determines which character set is used by default in various methods
80 | that require a character set to be provided.
81 |
82 */
83 $config['charset'] = 'UTF-8';
84
85 /*
86 |-----
87 | Enable/Disable System Hooks
88 |-----
89 |
90 | If you would like to use the 'hooks' feature you must enable it by
91 | setting this variable to TRUE (boolean). See the user guide for details.
92 |
93 */
94 $config['enable_hooks'] = FALSE;
95
96
97 /*
98 |-----
99 | Class Extension Prefix
100 |-----
101 |
102 | This item allows you to set the filename/classname prefix when extending
103 | native libraries. For more information please see the user guide:
104 |
105 | http://codeigniter.com/user\_guide/general/core\_classes.html
106 | http://codeigniter.com/user\_guide/general/creating\_libraries.html
107 |
108 */
109 $config['subclass_prefix'] = 'MY_';
110
111
112 /*
113 |-----
114 | Allowed URL Characters
115 |-----
116 |
117 | This lets you specify with a regular expression which characters are permitted
118 | within your URLs. When someone tries to submit a URL with disallowed
119 | characters they will get a warning message.
120 |
121 | As a security measure you are STRONGLY encouraged to restrict URLs to
122 | as few characters as possible. By default only these are allowed: a-z 0-9~%.:_-
123 |
124 | Leave blank to allow all characters -- but only if you are insane.
125 |
126 | DO NOT CHANGE THIS UNLESS YOU FULLY UNDERSTAND THE REPERCUSSIONS!!
127 |
128 */
129 $config['permitted_uri_chars'] = 'a-z 0-9~%.:_-';
130
131
132 /*
133 |-----
134 | Enable Query Strings
135 |-----
136 |
137 | By default CodeIgniter uses search-engine friendly segment based URLs:
138 | example.com/who/what/where/

```

```

139 |
140 | By default CodeIgniter enables access to the $_GET array. If for some
141 | reason you would like to disable it, set 'allow_get_array' to FALSE.
142 |
143 | You can optionally enable standard query string based URLs:
144 | example.com?who=me&what=something&where=here
145 |
146 | Options are: TRUE or FALSE (boolean)
147 |
148 | The other items let you set the query string 'words' that will
149 | invoke your controllers and its functions:
150 | example.com/index.php?c=controller&m=function
151 |
152 | Please note that some of the helpers won't work as expected when
153 | this feature is enabled, since CodeIgniter is designed primarily to
154 | use segment based URLs.
155 |
156 */
157 $config['allow_get_array'] = TRUE;
158 $config['enable_query_strings'] = FALSE;
159 $config['controller_trigger'] = 'c';
160 $config['function_trigger'] = 'm';
161 $config['directory_trigger'] = 'd'; // experimental not currently in use
162
163 /*
164 |-----
165 | Error Logging Threshold
166 |-----
167 |
168 | If you have enabled error logging, you can set an error threshold to
169 | determine what gets logged. Threshold options are:
170 | You can enable error logging by setting a threshold over zero. The
171 | threshold determines what gets logged. Threshold options are:
172 |
173 | 0 = Disables logging, Error logging TURNED OFF
174 | 1 = Error Messages (including PHP errors)
175 | 2 = Debug Messages
176 | 3 = Informational Messages
177 | 4 = All Messages
178 |
179 | For a live site you'll usually only enable Errors (1) to be logged otherwise
180 | your log files will fill up very fast.
181 |
182 */
183 $config['log_threshold'] = 0;
184
185 /*
186 |-----
187 | Error Logging Directory Path
188 |-----
189 |
190 | Leave this BLANK unless you would like to set something other than the default
191 | application/logs/ folder. Use a full server path with trailing slash.
192 |
193 */
194 $config['log_path'] = '';
195
196 /*
197 |-----
198 | Date Format for Logs
199 |-----
200 |
201 | Each item that is logged has an associated date. You can use PHP date
202 | codes to set your own date formatting
203 |
204 */
205 $config['log_date_format'] = 'Y-m-d H:i:s';
206
207 /*
208 |-----
209 | Cache Directory Path
210 |-----
211 |

```

```

212 | Leave this BLANK unless you would like to set something other than the default
213 | system/cache/ folder. Use a full server path with trailing slash.
214 |
215 */
216 $config['cache_path'] = '';
217
218 /*
219 |-----
220 | Encryption Key
221 |-----
222 |
223 | If you use the Encryption class or the Session class you
224 | MUST set an encryption key. See the user guide for info.
225 |
226 */
227 $config['encryption_key'] = '';
228
229 /*
230 |-----
231 | Session Variables
232 |-----
233 |
234 | 'sess_cookie_name' = the name you want for the cookie
235 | 'sess_expiration' = the number of SECONDS you want the session to last.
236 | by default sessions last 7200 seconds (two hours). Set to zero for no
    | expiration.
237 | 'sess_expire_on_close' = Whether to cause the session to expire automatically
238 | when the browser window is closed
239 | 'sess_encrypt_cookie' = Whether to encrypt the cookie
240 | 'sess_use_database' = Whether to save the session data to a database
241 | 'sess_table_name' = The name of the session database table
242 | 'sess_match_ip' = Whether to match the user's IP address when reading the
    | session data
243 | 'sess_match_useragent' = Whether to match the User Agent when reading the
    | session data
244 | 'sess_time_to_update' = how many seconds between CI refreshing Session
    | Information
245 |
246 */
247 $config['sess_cookie_name'] = 'ci_session';
248 $config['sess_expiration'] = 7200;
249 $config['sess_expire_on_close'] = FALSE;
250 $config['sess_encrypt_cookie'] = FALSE;
251 $config['sess_use_database'] = FALSE;
252 $config['sess_table_name'] = 'ci_sessions';
253 $config['sess_match_ip'] = FALSE;
254 $config['sess_match_useragent'] = TRUE;
255 $config['sess_time_to_update'] = 300;
256
257 /*
258 |-----
259 | Cookie Related Variables
260 |-----
261 |
262 | 'cookie_prefix' = Set a prefix if you need to avoid collisions
263 | 'cookie_domain' = Set to .your-domain.com for site-wide cookies
264 | 'cookie_path' = Typically will be a forward slash
265 | 'cookie_secure' = Cookies will only be set if a secure HTTPS connection exists.
266 |
267 */
268 $config['cookie_prefix'] = "";
269 $config['cookie_domain'] = "";
270 $config['cookie_path'] = "/";
271 $config['cookie_secure'] = FALSE;
272
273 /*
274 |-----
275 | Global XSS Filtering
276 |-----
277 |
278 | Determines whether the XSS filter is always active when GET, POST or
279 | COOKIE data is encountered
280 |

```

```

281 */
282 $config['global_xss_filtering'] = FALSE;
283
284 /*
285 |-----
286 | Cross Site Request Forgery
287 |-----
288 | Enables a CSRF cookie token to be set. When set to TRUE, token will be
289 | checked on a submitted form. If you are accepting user data, it is strongly
290 | recommended CSRF protection be enabled.
291 |
292 | 'csrf_token_name' = The token name
293 | 'csrf_cookie_name' = The cookie name
294 | 'csrf_expire' = The number in seconds the token should expire.
295 */
296 $config['csrf_protection'] = FALSE;
297 $config['csrf_token_name'] = 'csrf_test_name';
298 $config['csrf_cookie_name'] = 'csrf_cookie_name';
299 $config['csrf_expire'] = 7200;
300
301 /*
302 |-----
303 | Output Compression
304 |-----
305 |
306 | Enables Gzip output compression for faster page loads. When enabled,
307 | the output class will test whether your server supports Gzip.
308 | Even if it does, however, not all browsers support compression
309 | so enable only if you are reasonably sure your visitors can handle it.
310 |
311 | VERY IMPORTANT: If you are getting a blank page when compression is enabled it
312 | means you are prematurely outputting something to your browser. It could
313 | even be a line of whitespace at the end of one of your scripts. For
314 | compression to work, nothing can be sent before the output buffer is called
315 | by the output class. Do not 'echo' any values with compression enabled.
316 |
317 */
318 $config['compress_output'] = FALSE;
319
320 /*
321 |-----
322 | Master Time Reference
323 |-----
324 |
325 | Options are 'local' or 'gmt'. This pref tells the system whether to use
326 | your server's local time as the master 'now' reference, or convert it to
327 | GMT. See the 'date helper' page of the user guide for information
328 | regarding date handling.
329 |
330 */
331 $config['time_reference'] = 'local';
332
333
334 /*
335 |-----
336 | Rewrite PHP Short Tags
337 |-----
338 |
339 | If your PHP installation does not have short tag support enabled CI
340 | can rewrite the tags on-the-fly, enabling you to utilize that syntax
341 | in your view files. Options are TRUE or FALSE (boolean)
342 |
343 */
344 $config['rewrite_short_tags'] = FALSE;
345
346
347 /*
348 |-----
349 | Reverse Proxy IPs
350 |-----
351 |
352 | If your server is behind a reverse proxy, you must whitelist the proxy IP
353 | addresses from which CodeIgniter should trust the HTTP_X_FORWARDED_FOR

```

```

354 | header in order to properly identify the visitor's IP address.
355 | Comma-delimited, e.g. '10.0.1.200,10.0.1.201'
356 |
357 */
358 $config['proxy_ips'] = '';
359
360
361 /* End of file config.php */
362 /* Location: ./application/config/config.php */

```

Listing 1: config.php

```

1 <?php if ( ! defined('BASEPATH')) exit('No direct script access allowed');
2 /*
3 | -----
4 | DATABASE CONNECTIVITY SETTINGS
5 | -----
6 | This file will contain the settings needed to access your database.
7 |
8 | For complete instructions please consult the 'Database Connection'
9 | page of the User Guide.
10 |
11 | -----
12 | EXPLANATION OF VARIABLES
13 | -----
14 |
15 | ['hostname'] The hostname of your database server.
16 | ['username'] The username used to connect to the database
17 | ['password'] The password used to connect to the database
18 | ['database'] The name of the database you want to connect to
19 | ['dbdriver'] The database type. ie: mysql. Currently supported:
20 |             mysql, mysqli, postgre, odbc, mssql, sqlite, oci8
21 | ['dbprefix'] You can add an optional prefix, which will be added
22 |               to the table name when using the Active Record class
23 | ['pconnect'] TRUE/FALSE - Whether to use a persistent connection
24 | ['db_debug'] TRUE/FALSE - Whether database errors should be displayed.
25 | ['cache_on'] TRUE/FALSE - Enables/disables query caching
26 | ['cachedir'] The path to the folder where cache files should be stored
27 | ['char_set'] The character set used in communicating with the database
28 | ['dbcollat'] The character collation used in communicating with the database
29 |               NOTE: For MySQL and MySQLi databases, this setting is only used
30 |               as a backup if your server is running PHP < 5.2.3 or MySQL < 5.0.7
31 |               (and in table creation queries made with DB Forge).
32 |               There is an incompatibility in PHP with mysql_real_escape_string() which
33 |               can make your site vulnerable to SQL injection if you are using a
34 |               multi-byte character set and are running versions lower than these.
35 |               Sites using Latin-1 or UTF-8 database character set and collation are
36 |               unaffected.
37 | ['swap_pre'] A default table prefix that should be swapped with the dbprefix
38 | ['autoinit'] Whether or not to automatically initialize the database.
39 | ['stricton'] TRUE/FALSE - forces 'Strict Mode' connections
40 |               - good for ensuring strict SQL while developing
41 |
42 | The $active_group variable lets you choose which connection group to
43 | make active. By default there is only one group (the 'default' group).
44 |
45 | The $active_record variables lets you determine whether or not to load
46 | the active record class
47 */
48 $active_group = 'default';
49 $active_record = TRUE;
50
51 $db['crs']['hostname'] = '202.92.148.131';
52 $db['crs']['username'] = '***';
53 $db['crs']['password'] = '***';
54 $db['crs']['database'] = 'crs2';
55 $db['crs']['dbdriver'] = 'postgre';
56 $db['crs']['port'] = 5432;
57 $db['crs']['dbprefix'] = '';

```



```

58 $db['crs']['db_debug'] = TRUE;
59 $db['crs']['cache_on'] = FALSE;
60 $db['crs']['cachedir'] = '';
61 $db['crs']['char_set'] = 'utf8';
62 $db['crs']['dbcollat'] = 'utf8_general_ci';
63 $db['crs']['swap_pre'] = '';
64 $db['crs']['autoinit'] = TRUE;
65 $db['crs']['stricton'] = FALSE;
66 $db['crs']['pconnect'] = FALSE;
67
68 $db['default']['hostname'] = 'localhost';
69 $db['default']['username'] = '***';
70 $db['default']['password'] = '***';
71 $db['default']['database'] = 'OSET4';
72 $db['default']['dbdriver'] = 'mysql';
73 $db['default']['dbprefix'] = '';
74 $db['default']['pconnect'] = FALSE;
75 $db['default']['db_debug'] = TRUE;
76 $db['default']['cache_on'] = FALSE;
77 $db['default']['cachedir'] = '';
78 $db['default']['char_set'] = 'utf8';
79 $db['default']['dbcollat'] = 'utf8_general_ci';
80 $db['default']['swap_pre'] = '';
81 $db['default']['autoinit'] = TRUE;
82 $db['default']['stricton'] = FALSE;
83
84 /* End of file database.php */
85 /* Location: ./application/config/database.php */

```

Listing 2: database.php

```

1 <?php if ( ! defined('BASEPATH')) exit('No direct script access allowed');
2 /*
3 | -----
4 | URI ROUTING
5 | -----
6 | This file lets you re-map URI requests to specific controller functions.
7 |
8 | Typically there is a one-to-one relationship between a URL string
9 | and its corresponding controller class/method. The segments in a
10 | URL normally follow this pattern:
11 |
12 | example.com/class/method/id/
13 |
14 | In some instances, however, you may want to remap this relationship
15 | so that a different class/function is called than the one
16 | corresponding to the URL.
17 |
18 | Please see the user guide for complete details:
19 |
20 | http://codeigniter.com/user_guide/general/routing.html
21 |
22 | -----
23 | RESERVED ROUTES
24 | -----
25 |
26 | There area two reserved routes:
27 |
28 | $route['default_controller'] = 'welcome';
29 |
30 | This route indicates which controller class should be loaded if the
31 | URI contains no data. In the above example, the "welcome" class
32 | would be loaded.
33 |
34 | $route['404_override'] = 'errors/page_missing';
35 |
36 | This route will tell the Router what URI segments to use if those provided
37 | in the URL cannot be matched to a valid route.
38 |
39 */

```

```

40
41 $route['default_controller'] = "login";
42 $route['clerk/set/(:any)'] = "set/$1";
43 $route['admin/set/(:any)'] = "set/$1";
44 $route['student/set/(:any)'] = "set/$1/$1";
45 $route['set/(:any)'] = "";
46 $route['404_override'] = 'home';
47
48
49 /* End of file routes.php */
50 /* Location: ./application/config/routes.php */

```

Listing 3: routes.php

2. Controllers

```

1 <?php if ( ! defined('BASEPATH')) exit('No direct script access allowed');
2
3 class Home extends CI_Controller
4 {
5     public function __construct()
6     {
7         parent::__construct();
8         $this->load->library('session');
9     }
10
11     public function index()
12     {
13         if($this->session->userdata('logged_in'))
14         {
15             $data = $this->session->userdata('logged_in');
16             if(isset($data['student_id']))
17                 redirect("student/home", "refresh");
18             else
19             {
20                 $this->load->model('SET_model');
21                 $data['SET']=$this->SET_model->getRecords();
22                 $this->load->view('home', $data);
23             }
24         }
25         else
26             redirect("login","refresh");
27     }
28
29     public function errordatabase()
30     {
31         $data = $this->session->userdata('logged_in');
32         $this->load->model('SET_model');
33         $data['SET']=$this->SET_model->getRecords();
34         $this->load->view('admin/error_database', $data);
35     }
36
37     public function logout()
38     {
39         $this->session->unset_userdata('logged_in');
40         redirect('login', 'refresh');
41     }
42
43 }

```

Listing 4: home.php

```

1 <?php if ( ! defined('BASEPATH')) exit('No direct script access allowed');
2
3 class Login extends CI_Controller
4 {
5     public function __construct()

```

```

6  {
7  parent::__construct();
8  $this->load->model('user','','TRUE);
9  $this->load->model('college','','TRUE);
10 }
11
12 public function index()
13 {
14     if($this->session->userdata('logged_in'))
15         redirect('home', 'refresh');
16     else
17     {
18         session_destroy();
19         $this->load->view('login_view');
20     }
21 }
22
23 public function submit()
24 {
25     $this->load->library('session');
26     $this->load->library('form_validation');
27
28     $this->form_validation->set_rules('username', 'Username',
29         'trim|required|xss_clean');
30     $this->form_validation->set_rules('password', 'Password',
31         'trim|required|xss_clean|callback_check_database');
32
33     if($this->form_validation->run() == FALSE)
34         $this->load->view('login_view');
35     else{
36         $userdata = $this->session->userdata('logged_in');
37         if(isset($userdata['username']))
38             redirect('home', 'refresh');
39         else
40             redirect('student/home', 'refresh');
41     }
42 }
43
44 public function check_database($password)
45 {
46     $username = $this->input->post('username');
47     $row = $this->user->login($username, $password);
48
49     if($row)
50     {
51         $sess_array = array();
52         if(isset($row->user_type))
53         {
54             $sess_array = array(
55                 'username' => $row->username,
56                 'first_name' => $row->first_name,
57                 'last_name' => $row->last_name,
58                 'password' => $row->password,
59                 'salt' => $row->salt
60             );
61
62             if(strpos($row->user_type, '1') !== false)
63                 $sess_array['isAdmin'] = true;
64             if(strpos($row->user_type, '2') !== false)
65             {
66                 $sess_array['isClerk'] = true;
67                 $sess_array['user_college_code'] = $row->college_code;
68                 $sess_array['user_college_name'] =
69                     $this->college->getInfo($row->college_code)->college_name;
70             }
71             if(strpos($row->user_type, '3') !== false)
72                 $sess_array['isAnalyst'] = true;
73         }
74     }
75     //student
76     else
77     {
78         $sess_array = array(
79             'name' => $row->name,

```

```

76         'student_id' => $row->student_id,
77         'password' => $row->password,
78         'salt' => $row->salt
79     );
80 }
81 $this->session->set_userdata('logged_in', $sess_array);
82 $this->load->model('audit_trail');
83 $this->audit_trail->saveToDatabase("Logged in");
84 return TRUE;
85 }
86 else
87 {
88     $this->form_validation->set_message('check_database', 'Invalid username or
      password');
89     return FALSE;
90 }
91 }
92
93 public function logout()
94 {
95     $this->session->unset_userdata('logged_in');
96     redirect('home/logout', 'refresh');
97 }
98 }

```

Listing 5: login.php

```

1 <?php if ( ! defined('BASEPATH')) exit('No direct script access allowed');
2
3 class Classreport extends CI_Controller
4 {
5     public function __construct()
6     {
7         parent::__construct();
8         $this->load->model('report_per_class');
9         $this->load->model('classes');
10        $this->load->model('set_instrument');
11    }
12
13    public function index()
14    {
15        $instruments = $this->set_instrument->getRecords();
16        foreach ($instruments['model_name'] as $model)
17            $this->load->model('set/'.$model);
18
19        $classes = $this->classes->getAllClassesForReport();
20        $i = 0;
21        $ctr = 0; //number of pdf files created per run
22        foreach ($classes['oset_class_id'] as $id)
23        {
24            $model = $classes['model_name'][$i];
25            $filename =
26                './reports/report_per_class/'.$classes['instructor_code'][$i].'-
                '.$classes['class_id'][$i].'.pdf';
27            if(!file_exists($filename))
28            {
29                $this->$model->generateReportPerClass($id);
30                $ctr++;
31            }
32            if($ctr > 10)
33                break;
34            $i++;
35        }
36        echo 'Generated '.$i.'/'.count($classes['oset_class_id']).' reports';
37    }
38
39 }

```

Listing 6: classreport.php

```

1 <?php if ( ! defined('BASEPATH')) exit('No direct script access allowed');
2
3 class Changepassword extends CI_Controller
4 {
5     public function __construct()
6     {
7         parent::__construct();
8         $this->load->model('user','','TRUE');
9         $this->load->model('SET_model');
10    }
11
12    public function index()
13    {
14        if($this->session->userdata('logged_in'))
15        {
16            $data = $this->session->userdata('logged_in');
17            $data['SET']=$this->SET_model->getRecords();
18            $this->load->view('change_password', $data);
19        }
20        else {
21            redirect('home', 'refresh');
22        }
23    }
24
25    public function submit()
26    {
27        if($this->session->userdata('logged_in'))
28        {
29            $session_array = $this->session->userdata('logged_in');
30            if($this->input->post('password1') != $this->input->post('password2'))
31            {
32                $data = $this->session->userdata('logged_in');
33                $data['msg'] = "Passwords do not match.";
34                $this->load->model('SET_model');
35                $data['SET']=$this->SET_model->getRecords();
36                $this->load->view('change_password', $data);
37            }
38            else
39            {
40                if(MD5($this->input->post('password').$session_array['salt']) !=
41                    $session_array['password'])
42                {
43                    $data = $this->session->userdata('logged_in');
44                    $this->load->model('SET_model');
45                    $data['SET']=$this->SET_model->getRecords();
46                    $data['msg'] = "Invalid password.";
47                    $this->load->view('change_password', $data);
48                }
49                else
50                {
51                    $data= array(
52                        'password' =>
53                            MD5($this->input->post('password1').$session_array['salt'])
54                    );
55                    $this->user->updateRecord($data, $session_array['username']);
56                    $data = $this->session->userdata('logged_in');
57                    $data['msg'] = "Password changed.";
58                    $this->load->view('change_password', $data);
59                }
60            }
61        }
62        else
63            redirect('home', 'refresh');
64    }
65 }

```

Listing 7: changepassword.php

```

1 <?php if ( ! defined('BASEPATH')) exit('No direct script access allowed');
2

```

```

3 class Account extends CI_Controller
4 {
5     public function __construct()
6     {
7         parent::__construct();
8         $this->load->model('user');
9         $this->load->model('SET_model');
10    }
11
12    public function index()
13    {
14        $data = $this->session->userdata('logged_in');
15        $data['records'] = $this->user->getRecords('');
16        $data['SET'] = $this->SET_model->getRecords();
17        unset($_SESSION['keyword']);
18        $this->load->view('admin/account_list', $data);
19    }
20
21    public function search()
22    {
23        $data = $this->session->userdata('logged_in');
24        if(empty($_POST))
25        {
26            if($_SESSION['keyword'])
27            {
28                $data['records'] = $this->user->getRecords($_SESSION['keyword']);
29                $data['keyword'] = $_SESSION['keyword'];
30            }
31            else
32            {
33                $data['records'] = $this->user->getRecords('');
34            }
35        }
36        else
37        {
38            $data['records'] = $this->user->getRecords($this->input->post('keyword'));
39            $_SESSION['keyword'] = $this->input->post('keyword');
40            $data['keyword'] = $this->input->post('keyword');
41        }
42        $data['SET'] = $this->SET_model->getRecords();
43        $this->load->view('admin/account_list', $data);
44    }
45
46    public function add()
47    {
48        $data = $this->session->userdata('logged_in');
49        $this->load->model('college');
50        $data['colleges'] = $this->college->getRecords();
51        $data['SET'] = $this->SET_model->getRecords();
52        $data['msg'] = "User account added.";
53        $this->load->view('admin/add_user', $data);
54    }
55
56    public function delete($username)
57    {
58        $this->user->deleteRecord($username);
59        $_SESSION['msg'] = "User account deleted.";
60        if(!isset($_SESSION['keyword']))
61            $_SESSION['keyword'] = "";
62        redirect('admin/account/search', 'refresh');
63    }
64
65    public function edit($username)
66    {
67        $data = $this->session->userdata('logged_in');
68        $data['info'] = $this->user->getInfo($username);
69        $this->load->model('college');
70        $data['colleges'] = $this->college->getRecords();
71        $data['SET'] = $this->SET_model->getRecords();
72        $this->load->view('admin/edit_user', $data);
73    }
74
75    public function submit()

```

```

76 {
77     if($this->input->post('password') != $this->input->post('password2'))
78     {
79         $data = $this->session->userdata('logged_in');
80         $data['user'] = $this->input->post();
81         $data['user']['user_type'] = $this->getUserRoleCode();
82         $data['error_msg'] = "Passwords do not match.";
83         $this->load->model('college');
84         $data['colleges'] = $this->college->getRecords();
85         $this->load->view('admin/add_user', $data);
86     }
87     else
88     {
89         if(!($this->input->post('isAdmin') || $this->input->post('isClerk') ||
90             $this->input->post('isAnalyst')))
91         {
92             $data = $this->session->userdata('logged_in');
93             $data['user'] = $this->input->post();
94             $data['user']['user_type'] = $this->getUserRoleCode();
95             $data['error_msg'] = "Please check at least one user role.";
96             $this->load->model('college');
97             $data['colleges'] = $this->college->getRecords();
98             $this->load->view('admin/add_user', $data);
99         }
100        else
101        {
102            $valid = $this->user->checkUsername($this->input->post('username'));
103
104            if(!$valid)
105            {
106                $data = $this->session->userdata('logged_in');
107                $data['error_msg'] = "Username already exists.";
108                $data['user'] = $this->input->post();
109                $data['user']['user_type'] = $this->getUserRoleCode();
110                $this->load->model('college');
111                $data['colleges'] = $this->college->getRecords();
112                $this->load->view('admin/add_user', $data);
113            }
114            else
115            {
116                $salt = substr(MD5(uniqid(rand(), true)), 0, 6);
117                $data = array(
118                    'username' => $this->input->post('username'),
119                    'first_name' => $this->input->post('first_name'),
120                    'last_name' => $this->input->post('last_name'),
121                    'user_type' => $this->getUserRoleCode(),
122                    'salt' => $salt,
123                    'password' => MD5($this->input->post('password').$salt)
124                );
125
126                if($this->input->post('isClerk'))
127                    $data['college_code'] = $this->input->post('college_code');
128
129                $username = $this->user->saveToDatabase($data);
130                $_SESSION['msg'] = "User account added.";
131                redirect('admin/account/', 'refresh');
132            }
133        }
134    }
135
136    public function update($username)
137    {
138        if($this->input->post('changePassword') == "yes")
139        {
140            if($this->input->post('password') != $this->input->post('password2'))
141            {
142                $data = $this->session->userdata('logged_in');
143                $data['user'] = $this->input->post();
144                $data['user']['username'] = $username;
145                $data['user']['user_type'] = $this->getUserRoleCode();
146                $data['error_msg'] = "Passwords do not match.";
147                $this->load->model('college');

```

```

148     $data['colleges'] = $this->college->getRecords();
149     $this->load->view('admin/edit_user', $data);
150 }
151 else
152 {
153     $row = $this->user->getInfo($username);
154     $salt = $row->salt;
155
156     $data= array(
157         'first_name' => $this->input->post('first_name'),
158         'last_name' => $this->input->post('last_name'),
159         'user_type' => $this->getUserRoleCode(),
160         'password' => MD5($this->input->post('password').$salt)
161     );
162
163     if($this->input->post('isClerk'))
164         $data['college_code'] = $this->input->post('college_code');
165     else
166         $data['college_code'] = "";
167
168     $this->user->updateRecord($data, $username);
169     $_SESSION['msg'] = "User account updated.";
170     redirect('admin/account/search', 'refresh');
171 }
172 }
173 else
174 {
175     $data= array(
176         'first_name' => $this->input->post('first_name'),
177         'last_name' => $this->input->post('last_name'),
178         'user_type' => $this->getUserRoleCode()
179     );
180
181     if($this->input->post('isClerk'))
182         $data['college_code'] = $this->input->post('college_code');
183     else
184         $data['college_code'] = "";
185
186     $this->user->updateRecord($data, $username);
187     $_SESSION['msg'] = "User account updated.";
188     redirect('admin/account/search', 'refresh');
189 }
190
191 }
192
193 function getUserRoleCode()
194 {
195     $user_type = "";
196     if($this->input->post('isAdmin'))
197         $user_type .= "1";
198     if($this->input->post('isClerk'))
199         $user_type .= "2";
200     if($this->input->post('isAnalyst'))
201         $user_type .= "3";
202     return $user_type;
203 }
204
205 }

```

Listing 8: admin/account.php

```

1 <?php if ( ! defined('BASEPATH')) exit('No direct script access allowed');
2
3 class Audittrail extends CI_Controller
4 {
5     public function __construct()
6     {
7         parent::__construct();
8         $this->load->model('audit_trail');
9         $this->load->model('SET_model');

```



```

10 }
11
12 public function index()
13 {
14     $data = $this->session->userdata('logged_in');
15     $data['SET'] = $this->SET_model->getRecords();
16     unset($_SESSION['keyword']);
17     unset($_SESSION['date1']);
18     unset($_SESSION['date2']);
19     $data['audit_trail'] = $this->audit_trail->getRecords("", "", "");
20     $this->load->view('admin/audit_trail', $data);
21 }
22
23 public function submit()
24 {
25     foreach ($this->input->post() as $key => $val)
26         $this->audit_trail->deleteRecord($key);
27     $_SESSION['msg'] = "Selected records deleted.";
28     if(!isset($_SESSION['date1']))
29         $_SESSION['date1'] = "";
30     if(!isset($_SESSION['date2']))
31         $_SESSION['date2'] = "";
32     if(!isset($_SESSION['keyword']))
33         $_SESSION['keyword'] = "";
34     redirect('admin/audittrail/search', 'refresh');
35 }
36
37 public function search()
38 {
39     $data = $this->session->userdata('logged_in');
40     $data['SET'] = $this->SET_model->getRecords();
41     if(empty($_POST))
42     {
43         $data['audit_trail'] = $this->audit_trail->getRecords($_SESSION['keyword'],
44             $_SESSION['date1'], $_SESSION['date2']);
45         $data['search']['keyword'] = $_SESSION['keyword'];
46         $data['search']['date1'] = $_SESSION['date1'];
47         $data['search']['date2'] = $_SESSION['date2'];
48     }
49     else
50     {
51         $data['audit_trail'] =
52             $this->audit_trail->getRecords($this->input->post('keyword'),
53                 $this->input->post('date1'), $this->input->post('date2'));
54         $_SESSION['keyword'] = $this->input->post("keyword");
55         $_SESSION['date1'] = $this->input->post("date1");
56         $_SESSION['date2'] = $this->input->post("date2");
57         $data['search'] = $this->input->post();
58     }
59     $this->load->view('admin/audit_trail', $data);
60 }
61 }

```

Listing 9: admin/audittrail.php

```

1 <?php if ( ! defined('BASEPATH')) exit('No direct script access allowed');
2
3 class classManagement extends CI_Controller
4 {
5     public function __construct()
6     {
7         parent::__construct();
8         $this->load->model('college');
9         $this->load->model('classes');
10        $this->load->model('SET_model');
11    }
12
13    public function index()
14    {
15        $data = $this->session->userdata('logged_in');

```

```

16     $data['records']=$this->college->getRecords();
17     $data['SET']=$this->SET_model->getRecords();
18     $this->load->view('admin/download_classes', $data);
19 }
20
21 public function downloadClasses($college_code)
22 {
23     $this->classes->downloadClasses($college_code);
24     redirect('admin/classmanagement', 'refresh');
25 }
26
27 }

```

Listing 10: admin/classmanagement.php

```

1 <?php if ( ! defined('BASEPATH')) exit('No direct script access allowed');
2
3 class SET extends CI_Controller
4 {
5     public function __construct()
6     {
7         parent::__construct();
8         $this->load->model('SET_model');
9         $this->load->model('classes');
10        $this->load->model('college');
11        $this->load->model('student');
12        $this->load->model('faculty');
13    }
14
15    public function index()
16    {
17        $data = $this->session->userdata('logged_in');
18        $data['SET']=$this->SET_model->getRecords();
19        $this->load->view('admin/SET', $data);
20    }
21
22    public function submit()
23    {
24        $data['sem_ay'] =
25            $this->input->post('academic_year').$this->input->post('semester');
26        $this->SET_model->updateSETstatus($data);
27
28        $this->classes->deleteAll();
29        $this->faculty->deleteAll();
30        $this->college->resetDownloadStatus();
31        $this->student->deleteAll();
32        $this->SET_model->resetSET();
33
34        redirect('admin/SET', 'refresh');
35    }

```

Listing 11: admin/SET.php

```

1 <?php if ( ! defined('BASEPATH')) exit('No direct script access allowed');
2
3 class setinstrumentmanagement extends CI_Controller
4 {
5     public function __construct()
6     {
7         parent::__construct();
8         $this->load->model('set_instrument');
9         $this->load->model('SET_model');
10    }
11
12    public function index()
13    {
14        $data = $this->session->userdata('logged_in');

```

```

15     $data['records']=$this->set_instrument->getRecords();
16     $data['SET']=$this->SET_model->getRecords();
17     $this->load->view('admin/set_instrument', $data);
18 }
19
20 public function add()
21 {
22     $data = $this->session->userdata('logged_in');
23     $data['SET']=$this->SET_model->getRecords();
24     $data['set_id']=$this->set_instrument->getNextSetID();
25     $this->load->view('admin/add_set_instrument', $data);
26 }
27
28 public function edit($set_id)
29 {
30     $data = $this->session->userdata('logged_in');
31     $data['SET']=$this->SET_model->getRecords();
32     $data['set'] = $this->set_instrument->getInfo($set_id);
33     $this->load->view('admin/edit_set_instrument', $data);
34 }
35
36 public function submit()
37 {
38     $this->load->helper('file');
39
40     //check if there's a zip file
41     if(!$FILES['zipFile']['name'])
42     {
43         $data = $this->session->userdata('logged_in');
44         $data['SET'] = $this->SET_model->getRecords();
45         $data['set_id'] = $this->set_instrument->getNextSetID();
46         $data['SET_name'] = $this->input->post('name');
47         $data['error_msg'] = "No zip file selected.";
48         $this->load->view('admin/add_set_instrument', $data);
49         return;
50     }
51
52     //check if directories are writable
53     if(!is_writable('./set') || !is_writable('./application/controllers/set') ||
54         !is_writable('./application/models/set') ||
55         !is_writable('./application/views/set'))
56     {
57         $data = $this->session->userdata('logged_in');
58         $data['SET'] = $this->SET_model->getRecords();
59         $data['set_id'] = $this->set_instrument->getNextSetID();
60         $data['SET_name'] = $this->input->post('name');
61         $data['error_msg'] = "Folders needed to upload set instrument are not
62         writable.";
63         $this->load->view('admin/add_set_instrument', $data);
64         return;
65     }
66
67     //upload zip file
68     $config['allowed_types'] = 'zip';
69     $config['max_size'] = '5000';
70     $config['upload_path'] = './set';
71     $config['file_name'] = $FILES['zipFile']['name'];
72     $this->load->library('upload', $config);
73     $this->upload->initialize($config);
74     $this->upload->do_upload('zipFile');
75     $this->unzip('./set/'.$FILES['zipFile']['name'], './set');
76
77     //check config file
78     if(file_exists('./set/.config') === false)
79     {
80         //deletes zip file
81         unlink('./set/'.$FILES['zipFile']['name']);
82         foreach (glob("./set/*.php") as $file) {
83             unlink($file);
84         }
85
86         $data = $this->session->userdata('logged_in');
87         $data['SET']=$this->SET_model->getRecords();

```

```

85     $data['set_id']=$this->set_instrument->getNextSetID();
86     $data['SET_name'] = $this->input->post('name');
87     $data['error_msg'] = "No config file uploaded";
88     $this->load->view('admin/add_set_instrument', $data);
89     return;
90 }
91 include('./set/.config');
92
93 //checks duplicate files
94 if($error_msg = $this->duplicateFiles())
95 {
96     //deletes zip file
97     unlink('./set/'.$_FILES['zipFile']['name']);
98     foreach (glob("./set/*.*)" as $file) {
99         unlink($file);
100     }
101
102     $data = $this->session->userdata('logged_in');
103     $data['SET']=$this->SET_model->getRecords();
104     $data['set_id']=$this->set_instrument->getNextSetID();
105     $data['SET_name'] = $this->input->post('name');
106     $data['error_msg'] = $error_msg;
107     $this->load->view('admin/add_set_instrument', $data);
108     return;
109 }
110
111 //check duplicate tables
112 if(!$this->set_instrument->checkTableName($table_name))
113 {
114     //deletes zip file
115     unlink('./set/'.$_FILES['zipFile']['name']);
116     foreach (glob("./set/*.*)" as $file) {
117         unlink($file);
118     }
119
120     $data = $this->session->userdata('logged_in');
121     $data['SET']=$this->SET_model->getRecords();
122     $data['set_id']=$this->set_instrument->getNextSetID();
123     $data['SET_name'] = $this->input->post('name');
124     $data['error_msg'] = "Table name already exists.";
125     $this->load->view('admin/add_set_instrument', $data);
126     return;
127 }
128
129 //move to respective folder
130 //get filenames of php
131 foreach (glob("./set/*.php") as $file) {
132     $filename = substr($file, 6);
133     if($filename == $controller_name.'.php')
134     {
135         $data['controller_name'] = $controller_name;
136         rename($file, './application/controllers/set/'.$filename);
137     }
138     elseif($filename == $model_name.'.php')
139     {
140         $data['model_name'] = $model_name;
141         rename($file, './application/models/set/'.$filename);
142     }
143     else
144         rename($file, './application/views/set/'.$filename);
145 }
146 //deletes zip file
147 unlink('./set/'.$_FILES['zipFile']['name']);
148 unlink('./set/.config');
149
150 //create SET instrument table (e.g. up_set)
151 $this->set_instrument->createTables($data['model_name']);
152
153 //save to set_instrument table
154 if($this->set_instrument->isEmpty())
155     $data['set_as_default'] = 1;
156 $data['name'] = $this->input->post("name");
157 $data['set_instrument_id'] = $this->input->post("id");

```

```

158     $data['table_name'] = $table_name;
159     $this->set_instrument->saveToDatabase($data);
160
161     $this->writeCSV($table_name);
162     $_SESSION['msg'] = 'SET instrument uploaded. Please reset the directories\'
        permission to unwritable.';
163     redirect("admin/setinstrumentmanagement", "refresh");
164 }
165
166 public function writeCSV($table_name)
167 {
168     //create file
169     $file = './csv/'.$table_name.'.csv';
170     $fp = fopen($file, 'w');
171     //write column header
172     $header = "student_number","student_name","student_program",
173     "subject","section","instructor","department_code","college_code,";
174     $fields = $this->set_instrument->getFields($table_name);
175
176     foreach ($fields as $row)
177         $header .= "'".$row->Field.'"','';
178     $header = rtrim($header, ",");
179
180     fwrite($fp, $header);
181     fclose($fp);
182 }
183
184 public function unzip($source, $destination)
185 {
186     if (file_exists($source) === true){
187         $zip = new ZipArchive();
188         if ($zip->open($source) === true){
189             $zip->extractTo($destination);
190         }
191         return $zip->close();
192     }
193 }
194
195 public function duplicateFiles()
196 {
197     $duplicateView = false;
198     $duplicateModel = false;
199     $duplicateController = false;
200
201     foreach (glob("./set/*.php") as $file) {
202         $filename = substr($file, 6);
203         if(strpos($file, "view"))
204         {
205             if(file_exists('./application/views/set/'.$filename))
206                 $duplicateView = true;
207         }
208         elseif(strpos($file, "model"))
209         {
210             if(file_exists('./application/models/set/'.$filename))
211                 $duplicateModel = true;
212         }
213         else
214         {
215             if(file_exists('./application/controllers/set/'.$filename))
216                 $duplicateController = true;
217         }
218     }
219     $error_msg = false;
220     if($duplicateController || $duplicateModel || $duplicateView)
221     {
222         $error_msg = "Duplicate files: Please rename the ";
223         if($duplicateController && $duplicateModel && $duplicateView)
224             $error_msg .= "controller, model and view files.";
225         elseif($duplicateModel && $duplicateView)
226             $error_msg .= "model and view files.";
227         elseif($duplicateModel && $duplicateController)
228             $error_msg .= "controller and model files.";
229         elseif($duplicateController && $duplicateView)

```

```

230     $error_msg .= "controller and view files.";
231     elseif($duplicateController)
232     $error_msg .= "controller file.";
233     elseif($duplicateModel)
234     $error_msg .= "model file.";
235     elseif($duplicateView)
236     $error_msg .= "view file.";
237     $error_msg .= " Make necessary changes inside the php files as well.";
238 }
239 return $error_msg;
240 }
241
242 public function update($set_id)
243 {
244     $data['name'] = $this->input->post("name");
245     $this->set_instrument->updateRecord($data, $set_id);
246     redirect('admin/setinstrumentmanagement', 'refresh');
247 }
248
249 public function setasdefault($set_id)
250 {
251     $this->set_instrument->setAsDefault($set_id);
252     redirect('admin/setinstrumentmanagement', 'refresh');
253 }
254 }

```

Listing 12: admin/setinstrumentmanagement.php

```

1 <?php if ( ! defined('BASEPATH')) exit('No direct script access allowed');
2
3 class StudentAccountManagement extends CI_Controller
4 {
5     public function __construct()
6     {
7         parent::__construct();
8         $this->load->model('student');
9         $this->load->model('SET_model');
10    }
11
12    public function index()
13    {
14        $data = $this->session->userdata('logged_in');
15        $data['SET']=$this->SET_model->getRecords();
16        $this->load->view('admin/student_accounts', $data);
17    }
18
19    public function download()
20    {
21        if($this->student->accountGenerated() == FALSE)
22        {
23            $this->student->importClasslist();
24            $this->student->importStudents();
25            redirect('admin/studentaccountmanagement/generatePassword');
26        }
27        else
28            redirect('admin/studentaccountmanagement', 'refresh');
29    }
30
31    public function changePassword()
32    {
33        $data = $this->session->userdata('logged_in');
34        $data['SET']=$this->SET_model->getRecords();
35        $data['password'] = substr(MD5(uniqid(rand(), true)), 0, 8);
36        $this->load->view('admin/student_change_password', $data);
37    }
38
39    public function changePasswordSubmit()
40    {
41        $data = $this->session->userdata('logged_in');
42        $data['SET']=$this->SET_model->getRecords();

```

```

43
44 $student_number = str_replace("-", "", $this->input->post('student_number'));
45
46 if(!($row = $this->student->getInfo($student_number))
47 {
48     $data['student_number'] = $this->input->post('student_number');
49     $data['password'] = $this->input->post('password');
50     $data['msg'] = "Invalid student number.";
51 }
52 else
53 {
54     $salt = $row->salt;
55     $data2 = array('password' => MD5($this->input->post('password').$salt));
56     $this->student->update($data2, $student_number);
57     $data['password'] = substr(MD5(uniqid(rand(), true)), 0, 8);
58     $data['msg'] = "Password changed.";
59 }
60
61 $this->load->view('admin/student_change_password', $data);
62 }
63
64 public function generatePassword()
65 {
66     $res = $this->student->getRecords("", "");
67
68     $i = 0;
69     foreach ($res['student_id'] as $student_id)
70     {
71         $students[$i]['name'] = $res['name'][$i];
72         $students[$i]['student_id'] = $student_id;
73         $students[$i]['college'] = $res['college_code'][$i];
74         $pass = substr(MD5(uniqid(rand(), true)), 0, 8);
75         $students[$i]['pass'] = $pass;
76         $salt = substr(MD5(uniqid(rand(), true)), 0, 6);
77         $hashedPass = MD5($pass.$salt);
78
79         $data = array(
80             'password' => $hashedPass,
81             'salt' => $salt
82         );
83
84         $this->student->update($data, $student_id);
85
86         $i++;
87     }
88
89     $this->load->helper(array('dompdf', 'file'));
90     $this->load->helper('file');
91
92     $college = $students[0]['college'];
93
94     $rows[] = "UNIVERSITY OF THE PHILIPPINES MANILA";
95     $rows[] = "STUDENT EVALUATION OF TEACHERS";
96     $rows[] = " ";
97     $rows[] = " ";
98     $rows[] = "COLLEGE: ".strtoupper($college);
99     $rows[] = " ";
100
101     foreach ($students as $student)
102     {
103         if($student['college'] != $college)
104         {
105             $college = $student['college'];
106             $rows[] = " ";
107             $rows[] = "College: ".$college;
108             $rows[] = " ";
109         }
110         $rows[] = $student['name'];
111         $rows[] = "Username: ".str_pad(substr_replace($student['student_id'], '-',
112             4, 0), 20). "Password: ".$student['pass'];
112         $rows[] = "_____";
113         $rows[] = "_____";
114     }

```

```

115
116     $this->SET_model->updateSETStatus(array('accounts_generated' => '1'));
117     $pdf_data = create_pdf($rows, 'students_passwords', true);
118 }
119
120 }

```

Listing 13: admin/studentaccountmanagement.php

```

1 <?php if ( ! defined('BASEPATH')) exit('No direct script access allowed');
2
3 class classmanagement extends CI_Controller
4 {
5     public function __construct()
6     {
7         parent::__construct();
8         $this->load->model('classes');
9         $this->load->model('SET_model');
10        $this->load->model('college');
11    }
12
13    public function index()
14    {
15        $data = $this->session->userdata('logged_in');
16        $data['records'] =
17            $this->classes->getDistinctClass($data['user_college_code'], "", "");
18        $data['SET']=$this->SET_model->getRecords();
19        $data['departments'] =
20            $this->college->getDepartments($data['user_college_code']);
21        unset($_SESSION['subject_keyword']);
22        unset($_SESSION['department_keyword']);
23        $this->load->view('clerk/class_selection', $data);
24    }
25
26    public function search()
27    {
28        $data = $this->session->userdata('logged_in');
29
30        if(!empty($_POST))
31        {
32            $data['records'] =
33                $this->classes->getDistinctClass($data['user_college_code'],
34                    $this->input->post('subject'), $this->input->post('department'));
35            $_SESSION['subject_keyword'] = $this->input->post('subject');
36            $_SESSION['department_keyword'] = $this->input->post('department');
37            $data['search'] = $this->input->post();
38        }
39        else
40        {
41            $data['records'] =
42                $this->classes->getDistinctClass($data['user_college_code'],
43                    $_SESSION['subject_keyword'], $_SESSION['department_keyword']);
44            $data['search']['subject'] = $_SESSION['subject_keyword'];
45            $data['search']['department'] = $_SESSION['department_keyword'];
46        }
47        $data['SET']=$this->SET_model->getRecords();
48        $data['departments'] =
49            $this->college->getDepartments($data['user_college_code']);
50        $this->load->view('clerk/class_selection', $data);
51    }
52
53    public function edit($class_id)
54    {
55        $data = $this->session->userdata('logged_in');
56        $data['class'] = $this->classes->getInfo($class_id);
57        $data['SET']=$this->SET_model->getRecords();
58        $this->load->view('clerk/edit_class', $data);
59    }
60
61    public function addInstructor($class_id)

```



```

55 {
56     $data = $this->session->userdata('logged_in');
57     $data['class'] = $this->classes->getInfo($class_id);
58     $this->load->model('faculty');
59     $data['faculty'] = $this->faculty->getRecords();
60     $data['SET'] = $this->SET_model->getRecords();
61     $this->load->view('clerk/add_instructor', $data);
62 }
63
64 public function submit($class_id)
65 {
66     if($this->classes->checkInstructorCode($class_id,
67         $this->input->post('instructor_code'))
68         $this->classes->addInstructor($class_id,
69             $this->input->post('instructor_code'));
70     redirect('clerk/classmanagement/edit/' . $class_id, 'refresh');
71 }
72
73 public function deleteInstructor($id)
74 {
75     $class_id = substr($id, 0, 10);
76     $instructor = substr($id, 10, strlen($id));
77     $this->classes->deleteInstructor($class_id, $instructor);
78     redirect('clerk/classmanagement/edit/' . $class_id, 'refresh');
79 }
80
81 public function saveSelection($college_code)
82 {
83     $this->load->model('set_instrument');
84     $default_set = $this->set_instrument->getDefaultSET();
85
86     if(!isset($_SESSION['subject_keyword']))
87         $classes = $this->classes->getDistinctClass($college_code, "", "");
88     else
89         $classes = $this->classes->getDistinctClass($college_code,
90             $_SESSION['subject_keyword'], $_SESSION['department_keyword']);
91
92     foreach ($classes['class_id'] as $class_id)
93     {
94         $i = 0;
95         foreach ($classes['faculty_id'][$class_id] as $instructor)
96         {
97             $code = $class_id.$instructor;
98
99             if($this->input->post($code))
100             {
101                 $data['activated'] = 1;
102                 $data['set_instrument_id'] = $default_set;
103                 $this->classes->updateActivationStatus($class_id,
104                     $classes['instructors'][$class_id][$i], $data);
105             }
106             else
107             {
108                 $data['activated'] = 0;
109                 $data['set_instrument_id'] = 0;
110                 $this->classes->updateActivationStatus($class_id,
111                     $classes['instructors'][$class_id][$i], $data);
112             }
113             $i++;
114         }
115     }
116
117     $_SESSION['msg'] = "Selection saved.";
118     if(isset($_SESSION['subject_keyword']))
119         redirect('clerk/classmanagement/search', 'refresh');
120     else
121         redirect('clerk/classmanagement/', 'refresh');
122 }
123
124 public function addNewInstructor($class_id)
125 {
126     $data = $this->session->userdata('logged_in');

```

```

123     $data['class'] = $this->classes->getInfo($class_id);
124     $this->load->model('faculty');
125     $data['faculty'] = $this->faculty->getRecords();
126     $data['SET']=$this->SET_model->getRecords();
127     $this->load->view('clerk/add_new_instructor', $data);
128 }
129
130 public function addNewInstructorSubmit($class_id)
131 {
132     $this->load->model('faculty');
133     $data = array(
134         'name' => strtoupper($this->input->post('name')),
135         'instructor_code' => $this->input->post('code'),
136     );
137     $this->faculty->saveToDatabase($data);
138
139     if($this->input->post('addToClass'))
140         $this->classes->addInstructor($class_id, $this->input->post('code'));
141
142     redirect('clerk/classmanagement/edit/'.$class_id, 'refresh');
143 }
144 }

```

Listing 14: clerk/classmanagement.php

```

1 <?php if ( ! defined('BASEPATH')) exit('No direct script access allowed');
2
3 class Evaluationmanagement extends CI_Controller
4 {
5     public function __construct()
6     {
7         parent::__construct();
8         $this->load->model('classes');
9         $this->load->model('SET_model');
10        $this->load->model('college');
11    }
12
13    public function open()
14    {
15        $data = $this->session->userdata('logged_in');
16        $data['records'] = $this->classes->getClassesByStatus(0,
17            $data['user_college_code'], "", "");
18        $data['SET']=$this->SET_model->getRecords();
19        $data['departments'] =
20            $this->college->getDepartments($data['user_college_code']);
21        unset($_SESSION['subject_keyword_open']);
22        unset($_SESSION['department_keyword_open']);
23        $this->load->view('clerk/open_evaluation', $data);
24    }
25
26    public function opensubmit($college_code)
27    {
28        $classes = $this->classes->getClassesByStatus(0, $college_code, "", "");
29
30        $i = 0;
31        foreach ($classes['oset_class_id'] as $oset_class_id)
32        {
33            if($this->input->post($oset_class_id)){
34                $data['open'] = 1;
35                $this->classes->update($oset_class_id, $data);
36            }
37            $i++;
38        }
39
40        $_SESSION['msg'] = "Evaluation for selected classes opened.";
41
42        if(isset($_SESSION['subject_keyword_open']))
43            redirect('clerk/evaluationmanagement/searchopen', 'refresh');
44        else
45            redirect('clerk/evaluationmanagement/open', 'refresh');

```

```

44 }
45
46 public function close()
47 {
48     $data = $this->session->userdata('logged_in');
49     $data['records'] = $this->classes->getClassesByStatus(1,
50         $data['user_college_code'], "", "");
51     $data['SET']=$this->SET_model->getRecords();
52     $data['departments'] =
53         $this->college->getDepartments($data['user_college_code']);
54     unset($_SESSION['subject_keyword_close']);
55     unset($_SESSION['department_keyword_close']);
56     $this->load->view('clerk/close_evaluation', $data);
57 }
58
59 public function closesubmit($college_code)
60 {
61     $classes = $this->classes->getClassesByStatus(1, $college_code, "", "");
62     $i = 0;
63     foreach ($classes['oset_class_id'] as $oset_class_id)
64     {
65         if($this->input->post($oset_class_id){
66             $data['open'] = 2;
67             $data['score'] = $this->classes->getScore($oset_class_id);
68             $this->classes->update($oset_class_id, $data);
69         }
70         $i++;
71     }
72     $_SESSION['msg'] = "Evaluation for selected classes closed.";
73
74     if(isset($_SESSION['subject_keyword_close']))
75         redirect('clerk/evaluationmanagement/searchclose', 'refresh');
76     else
77         redirect('clerk/evaluationmanagement/close', 'refresh');
78 }
79
80 public function status()
81 {
82     $data = $this->session->userdata('logged_in');
83     $data['records'] = $this->classes->getClassesByStatus(2,
84         $data['user_college_code'], "", "");
85     $data['SET']=$this->SET_model->getRecords();
86     $data['departments'] =
87         $this->college->getDepartments($data['user_college_code']);
88     $this->load->view('clerk/evaluation_status', $data);
89 }
90
91 public function searchopen()
92 {
93     $data = $this->session->userdata('logged_in');
94
95     if(!empty($_POST))
96     {
97         $data['records'] = $this->classes->getClassesByStatus(0,
98             $data['user_college_code'], $this->input->post('subject'),
99             $this->input->post('department'));
100         $_SESSION['subject_keyword_open'] = $this->input->post('subject');
101         $_SESSION['department_keyword_open'] = $this->input->post('department');
102         $data['search'] = $this->input->post();
103     }
104     else
105     {
106         $data['records'] = $this->classes->getClassesByStatus(0,
107             $data['user_college_code'], $_SESSION['subject_keyword_open'],
108             $_SESSION['department_keyword_open']);
109         $data['search']['subject'] = $_SESSION['subject_keyword_open'];
110         $data['search']['department'] = $_SESSION['department_keyword_open'];
111     }
112
113     $data['SET']=$this->SET_model->getRecords();
114     $data['departments'] =
115         $this->college->getDepartments($data['user_college_code']);

```

```

108     $this->load->view('clerk/open_evaluation', $data);
109 }
110
111 public function searchclose()
112 {
113     $data = $this->session->userdata('logged_in');
114
115     if(!empty($_POST))
116     {
117         $data['records'] = $this->classes->getClassesByStatus(1,
118             $data['user_college_code'], $this->input->post('subject'),
119             $this->input->post('department'));
120         $_SESSION['subject_keyword_close'] = $this->input->post('subject');
121         $_SESSION['department_keyword_close'] = $this->input->post('department');
122         $data['search'] = $this->input->post();
123     }
124     else
125     {
126         $data['records'] = $this->classes->getClassesByStatus(1,
127             $data['user_college_code'], $_SESSION['subject_keyword_close'],
128             $_SESSION['department_keyword_close']);
129         $data['search']['subject'] = $_SESSION['subject_keyword_close'];
130         $data['search']['department'] = $_SESSION['department_keyword_close'];
131     }
132
133     $data['SET'] = $this->SET_model->getRecords();
134     $data['departments'] =
135         $this->college->getDepartments($data['user_college_code']);
136     $this->load->view('clerk/close_evaluation', $data);
137 }
138
139 public function searchstatus()
140 {
141     $data = $this->session->userdata('logged_in');
142     $data['records'] = $this->classes->getClassesByStatus(2,
143         $data['user_college_code'], $this->input->post('subject'),
144         $this->input->post('department'));
145     $data['SET'] = $this->SET_model->getRecords();
146     $data['departments'] =
147         $this->college->getDepartments($data['user_college_code']);
148     $data['search'] = $this->input->post();
149     $this->load->view('clerk/evaluation_status', $data);
150 }
151
152 public function studentstatus()
153 {
154     $data = $this->session->userdata('logged_in');
155     $data['SET'] = $this->SET_model->getRecords();
156
157     if(!file_exists('./reports/students_with_unevaluated_classes_'
158         . $data['user_college_code'] . '.pdf'))
159         $this->updatePDFStudentStatus();
160
161     $this->load->view('clerk/student_status', $data);
162 }
163
164 public function updatePDFStudentStatus()
165 {
166     $data = $this->session->userdata('logged_in');
167     $this->load->model('student');
168     $student = $this->student->getRecords($data['user_college_code'], "");
169
170     //for pdf
171     $rows[] = "UNIVERSITY OF THE PHILIPPINES MANILA";
172     $rows[] = "STUDENT EVALUATION OF TEACHERS";
173     $rows[] = " ";
174     $rows[] = " ";
175     $rows[] = strtoupper($data['user_college_name']);
176     $rows[] = "The following students still have classes to be evaluated:";
177     $rows[] = " ";
178
179     if($student)
180     {

```

```

173     $i = 0;
174     foreach ($student['student_id'] as $student_id)
175     {
176         if($results = $this->student->getUnevaluatedClasses($student_id))
177         {
178             $rows[] = " ";
179             $rows[] = ucwords(strtolower($student['name'][$i]));
180             $unevalStudents['classes'] = "";
181             for($j = 0; $j < count($results['subject']); $j++)
182             {
183                 $rows[] = $results['subject'][$j]." ( ".$results['section'][$j].") -
                    ".$results['instructor'][$j];
184             }
185         }
186         $i++;
187     }
188 }
189 $this->load->helper(array('dompdf', 'file'));
190 $this->load->helper('file');
191
192 $pdf_data = create_pdf($rows, '', false);
193 write_file('./reports/students_with_unevaluated_classes_' .
194     $data['user_college_code'].'.pdf', $pdf_data);
195
196 redirect('clerk/evaluationmanagement/studentstatus', 'refresh');
197 }
198
199 }

```

Listing 15: clerk/evaluationmanagement.php

```

1 <?php if ( ! defined('BASEPATH')) exit('No direct script access allowed');
2
3 class Reportmanagement extends CI_Controller
4 {
5     public function __construct()
6     {
7         parent::__construct();
8         $this->load->model('SET_model');
9         $this->load->model('classes');
10        $this->load->model('college');
11        $this->load->model('report_per_class');
12        $this->load->model('faculty_summarized_report');
13    }
14
15    public function reportperclass()
16    {
17        $data = $this->session->userdata('logged_in');
18        $data['records'] =
19            $this->classes->getClassesForReport($data['user_college_code'], '', '');
20        $data['departments'] =
21            $this->college->getDepartments($data['user_college_code']);
22        $data['SET'] = $this->SET_model->getRecords();
23        $this->load->view('clerk/report_per_class', $data);
24    }
25
26    public function searchreportperclass()
27    {
28        $data = $this->session->userdata('logged_in');
29        $data['records'] =
30            $this->classes->getClassesForReport($data['user_college_code'],
31                $this->input->post('subject'), $this->input->post('department'));
32        $data['search'] = $this->input->post();
33        $data['departments'] =
34            $this->college->getDepartments($data['user_college_code']);
35        $data['SET'] = $this->SET_model->getRecords();
36        $this->load->view('clerk/report_per_class', $data);
37    }
38
39    public function reportperclassarchive()

```

```

35 {
36     $data = $this->session->userdata('logged_in');
37     $data['SET']=$this->SET_model->getRecords();
38     $data['sem_ay'] =
39         $this->report_per_class->getDistinctSemAY($data['user_college_code']);
40     $data['records'] =
41         $this->report_per_class->getRecords($data['user_college_code'],
42         $data['SET']['semester'], '', '');
43     $data['search']['sem_ay'] = $data['SET']['semester'];
44     $data['departments'] =
45         $this->college->getDepartments($data['user_college_code']);
46     $this->load->view('clerk/report_per_class_archive', $data);
47 }
48
49 public function searchreportperclassarchive()
50 {
51     $data = $this->session->userdata('logged_in');
52     $data['SET']=$this->SET_model->getRecords();
53     $data['records'] =
54         $this->report_per_class->getRecords($data['user_college_code'],
55         $this->input->post('sem_ay'), $this->input->post('subject'),
56         $this->input->post('department'));
57     $data['sem_ay'] =
58         $this->report_per_class->getDistinctSemAY($data['user_college_code']);
59     $data['departments'] =
60         $this->college->getDepartments($data['user_college_code']);
61     $data['search'] = $this->input->post();
62     $this->load->view('clerk/report_per_class_archive', $data);
63 }
64
65 public function facultysummarizedreport()
66 {
67     $data = $this->session->userdata('logged_in');
68     $data['SET']=$this->SET_model->getRecords();
69
70     $path = './reports/faculty_summarized_report/'.$data['user_college_code'].'-'.
71     $data['SET']['semester'];
72
73     if(!file_exists($path.'.doc'))
74     {
75         $data2 = array ('sem_ay' => $data['SET']['semester'],
76             'college' => $data['user_college_code'],
77             'path' => $path);
78         $this->faculty_summarized_report->saveToDatabase($data2);
79     }
80     $data['path'] = $path;
81     $this->updateFacultyReport('');
82     $this->load->view('clerk/faculty_report', $data);
83 }
84
85 public function searchfacultysummarizedreport()
86 {
87     $data = $this->session->userdata('logged_in');
88     $data['SET']=$this->SET_model->getRecords();
89     $data['path'] =
90         './reports/faculty_summarized_report/'.$data['user_college_code'].'-'.
91         $data['SET']['semester'];
92     $this->updateFacultyReport($this->input->post('instructor'));
93     $data['search'] = $this->input->post();
94     $this->load->view('clerk/faculty_report', $data);
95 }
96
97 public function updateFacultyReport($instructor)
98 {
99     $ins = $instructor;
100     $data = $this->session->userdata('logged_in');
101     $instructors =
102         $this->classes->getFacultyWithAllClassesClosed($data['user_college_code'],
103         $instructor);
104     $data['instructors'] = $instructors;
105
106     if($instructors)
107     {

```

```

96     foreach ($instructors['instructor'] as $instructor)
97     {
98         $classes =
99             $this->classes->getClassesByInstructor($data['user_college_code'],
100             $instructor);
101         $data['count'][] = count($classes['subject']);
102
103         for ($i = 0; $i < count($classes['subject']); $i++)
104         {
105             $data['classes']['subject'][] = $classes['subject'][$i];
106             $data['classes']['units'][] = $classes['units'][$i];
107             $data['classes']['score'][] = $classes['score'][$i];
108             $data['classes']['total'][] = $classes['total'][$i];
109             $data['classes']['rating'][] = $classes['rating'][$i];
110             $data['classes']['no_of_students'][] = $classes['no_of_students'][$i];
111             $data['classes']['no_of_respondents'][] =
112                 $classes['no_of_respondents'][$i];
113         }
114     }
115
116     $SET = $this->SET_model->getRecords();
117     $path = './reports/faculty_summarized_report/'.$data['user_college_code'].'-'.
118         $SET['semester'];
119     $sem = substr($SET['semester'], 0, 4);
120     $sem2 = $sem+1;
121     $data['sem_ay'] = substr($SET['semester'], 4, 1).' / '.$sem.'-'. $sem2;
122
123     //create file
124     $html = $this->load->view('clerk/summarized_faculty_report', $data, TRUE);
125     $this->load->helper('file');
126     if(!$ins)
127     {
128         //doc file
129         write_file($path.'.doc', $html);
130     }
131 }
132
133 public function facultysummarizedreportdownload($college)
134 {
135     $SET = $this->SET_model->getRecords();
136     $path = './reports/faculty_summarized_report/'.
137         $college.'-'. $SET['semester'].'.doc';
138
139     $this->updateFacultyReport('');
140     $this->load->helper('download');
141     $data = file_get_contents($path); // Read the file's contents
142     $name = str_replace('./reports/faculty_summarized_report/', '', $path);
143     force_download($name, $data);
144 }
145
146 public function facultysummarizedreportarchive()
147 {
148     $data = $this->session->userdata('logged_in');
149     $data['SET']=$this->SET_model->getRecords();
150     $data['records'] =
151         $this->faculty_summarized_report->getRecords($data['user_college_code'],
152         '');
153     $this->load->view('clerk/faculty_report_archive', $data);
154 }
155
156 public function searchfacultysummarizedreportarchive()
157 {
158     $data = $this->session->userdata('logged_in');
159     $data['SET']=$this->SET_model->getRecords();
160     $data['records'] =
161         $this->faculty_summarized_report->getRecords($data['user_college_code'],
162         $this->input->post('sem_ay'));
163     $data['sem_ay'] = $this->faculty_summarized_report->getDistinctSemAY(
164         $data['user_college_code']);
165     $data['search'] = $this->input->post();
166     $this->load->view('clerk/faculty_report_archive', $data);
167 }

```

160
161 }

Listing 16: clerk/reportmanagement.php

```
1 <?php if ( ! defined('BASEPATH')) exit('No direct script access allowed');
2
3 class Setinstrumentassignment extends CI_Controller
4 {
5     public function __construct()
6     {
7         parent::__construct();
8         $this->load->model('classes');
9         $this->load->model('SET_model');
10        $this->load->model('college');
11        $this->load->model('set_instrument');
12    }
13
14    public function index()
15    {
16        $data = $this->session->userdata('logged_in');
17        $data['records'] =
18            $this->classes->getActivatedClasses($data['user_college_code'], "", "");
19        $data['SET'] = $this->SET_model->getRecords();
20        $data['departments'] =
21            $this->college->getDepartments($data['user_college_code']);
22        $data['instruments'] = $this->set_instrument->getRecords();
23        unset($_SESSION['subject_keyword_setassign']);
24        unset($_SESSION['department_keyword_setassign']);
25        $this->load->view('clerk/set_instrument_assignment', $data);
26    }
27
28    public function submit()
29    {
30        $post = array();
31        foreach ($_POST as $key => $value)
32        {
33            if($this->input->post($key) AND $key != "set_instrument");
34            {
35                $set_class_id = $key;
36                $data['set_instrument_id'] = $this->input->post('set_instrument');
37                $this->classes->update($set_class_id, $data);
38            }
39        }
40
41        $_SESSION['msg'] = "SET instrument assignment saved.";
42        if(isset($_SESSION['subject_keyword_setassign']))
43            redirect('clerk/setinstrumentassignment/search', 'refresh');
44        else
45            redirect('clerk/setinstrumentassignment/', 'refresh');
46    }
47
48    public function search()
49    {
50        $data = $this->session->userdata('logged_in');
51
52        if(!empty($_POST))
53        {
54            $data['records'] =
55                $this->classes->getActivatedClasses($data['user_college_code'],
56                    $this->input->post('subject'), $this->input->post('department'));
57            $data['search'] = $this->input->post();
58            $_SESSION['subject_keyword_setassign'] = $this->input->post('subject');
59            $_SESSION['department_keyword_setassign'] =
60                $this->input->post('department');
61        }
62        else
63        {
64            $data['records'] =
65                $this->classes->getActivatedClasses($data['user_college_code'],
```



```

        $_SESSION['subject_keyword_setassign'],
        $_SESSION['department_keyword_setassign']);
60     $data['search']['subject'] = $_SESSION['subject_keyword_setassign'];
61     $data['search']['department'] = $_SESSION['department_keyword_setassign'];
62 }
63
64 $data['SET']=$this->SET_model->getRecords();
65 $data['departments'] =
        $this->college->getDepartments($data['user_college_code']);
66 $data['instruments'] = $this->set_instrument->getRecords();
67 $this->load->view('clerk/set_instrument_assignment', $data);
68 }
69 }

```

Listing 17: clerk/setinstrumentassignment.php

```

1 <?php if ( ! defined('BASEPATH')) exit('No direct script access allowed');
2
3 class StudentAccount extends CI_Controller
4 {
5     public function __construct()
6     {
7         parent::__construct();
8         $this->load->model('SET_model');
9         $this->load->model('student');
10    }
11
12    public function index()
13    {
14        $data = $this->session->userdata('logged_in');
15        $data['records'] = $this->student->getRecords($data['user_college_code'], "");
16        $data['SET']=$this->SET_model->getRecords();
17        $_SESSION['student_keyword'] = "";
18        $this->load->view('clerk/students_list', $data);
19    }
20
21    public function search()
22    {
23        $data = $this->session->userdata('logged_in');
24        $data['records'] = $this->student->getRecords($data['user_college_code'],
                $this->input->post('name'));
25        $data['name'] = $this->input->post('name');
26        $data['SET']=$this->SET_model->getRecords();
27        $_SESSION['student_keyword'] = $this->input->post('name');
28        $this->load->view('clerk/students_list', $data);
29    }
30
31    public function viewclasses($student_ID)
32    {
33        $data = $this->session->userdata('logged_in');
34        $data['student'] = $this->student->getInfo($student_ID);
35        $data['classes'] = $this->student->getClasses($student_ID);
36        $data['SET']=$this->SET_model->getRecords();
37        $this->load->view('clerk/student_classlist', $data);
38    }
39
40 }

```

Listing 18: clerk/studentaccount.php

```

1 <?php if ( ! defined('BASEPATH')) exit('No direct script access allowed');
2
3 class Exportdata extends CI_Controller
4 {
5     public function __construct()
6     {
7         parent::__construct();
8         $this->load->model('SET_model');

```

```

 9     $this->load->model('set_instrument');
10     $this->load->model('college');
11     $this->load->model('department');
12 }
13
14 public function index()
15 {
16     $data = $this->session->userdata('logged_in');
17     $data['SET'] = $this->SET_model->getRecords();
18     $data['records'] = $this->set_instrument->getRecords();
19     $this->load->view('infoanalyst/set_instrument_list', $data);
20 }
21
22 public function downloadCSV($table_name)
23 {
24     $this->load->helper('file');
25     $file = './csv/'.$table_name.'.csv';
26     $data = file_get_contents($file); // Read the file's contents
27     $this->load->helper('download');
28     force_download($table_name.'.csv', $data);
29 }
30 }

```

Listing 19: infoanalyst/exportdata.php

```

 1 <?php if ( ! defined('BASEPATH')) exit('No direct script access allowed');
 2
 3 class Upset extends CI_Controller
 4 {
 5     public function __construct()
 6     {
 7         parent::__construct();
 8         $this->load->model('classes');
 9         $this->load->model('set/upset_model');
10     }
11
12     public function index()
13     {
14     }
15
16     public function preview()
17     {
18         $data = $this->session->userdata('logged_in');
19         $this->load->model('SET_model');
20         $data['SET'] = $this->SET_model->getRecords();
21         $data['preview'] = true;
22         $this->load->view('set/UP_SET_view', $data);
23     }
24
25     public function evaluate($oset_class_id)
26     {
27         $data = $this->session->userdata('logged_in');
28         if($this->upset_model->checkIfEvaluated($oset_class_id, $data['student_id'])
29             == 0)
30         {
31             $data['preview'] = false;
32             $data['class'] = $this->classes->getInformation($oset_class_id);
33             $this->load->view('set/UP_SET_view', $data);
34         }
35         else
36             redirect("student/home", "refresh");
37     }
38
39     public function submit($oset_class_id)
40     {
41         //default fields
42         $user_data = $this->session->userdata('logged_in');
43
44         //response
45         $data['student_id'] = $user_data['student_id'];

```

```

45 $data['oset_class_id'] = $oset_class_id;
46
47 if(!$this->upset_model->checkIfEvaluated($oset_class_id, $data['student_id']))
48 {
49     //part 1
50     $data['part1_1'] = $this->input->post('part1_1');
51     $data['part1_2'] = $this->input->post('part1_2');
52     $data['part1_3'] = $this->input->post('part1_3');
53     $data['part1_4'] = $this->input->post('part1_4');
54     $data['part1_5'] = $this->input->post('part1_5');
55     $data['part1_6'] = $this->input->post('part1_6');
56     if($this->input->post('part1_7'))
57         $data['part1_7'] = $this->input->post('part1_7');
58     else
59         $data['part1_7'] = 'NR';
60     if($this->input->post('part1_8'))
61         $data['part1_8'] = $this->input->post('part1_8');
62     else
63         $data['part1_8'] = 'NR';
64     $data['part1_9'] = $this->input->post('part1_9');
65
66     //part 2-A
67     $data['part2a_1'] = $this->input->post('part2a_1');
68     $data['part2a_2'] = $this->input->post('part2a_2');
69     $data['part2a_3'] = $this->input->post('part2a_3');
70     $data['part2a_4'] = $this->input->post('part2a_4');
71     $data['part2a_5'] = $this->input->post('part2a_5');
72     $data['part2a_6'] = $this->input->post('part2a_6');
73     $data['part2a_7'] = $this->input->post('part2a_7');
74
75     //part 2-B
76     $data['part2b_1'] = $this->input->post('part2b_1');
77     if($data['part2b_1'] == "yes")
78     {
79         $data['part2b_1_1'] = $this->input->post('part2b_1_1');
80         if($data['part2b_1_1'] == "yes")
81         {
82             $data['part2b_1_1_1'] = $this->input->post('part2b_1_1_1');
83             $data['part2b_1_1_2'] = $this->input->post('part2b_1_1_2');
84         }
85     }
86     $data['part2b_2'] = $this->input->post('part2b_2');
87     if($data['part2b_2'] == 'Others')
88         $data['part2b_2'] = $this->input->post('part2b_2Other');
89     $data['part2b_3'] = $this->input->post('part2b_3');
90     $data['part2b_4'] = $this->input->post('part2b_4');
91     $data['part2b_5'] = $this->input->post('part2b_5');
92     $data['part2b_6'] = $this->input->post('part2b_6');
93
94     //part 3-A
95     $data['part3a_1'] = $this->input->post('part3a_1');
96     $data['part3a_2'] = $this->input->post('part3a_2');
97     $data['part3a_3'] = $this->input->post('part3a_3');
98     $data['part3a_4'] = $this->input->post('part3a_4');
99     $data['part3a_5'] = $this->input->post('part3a_5');
100    $data['part3a_6'] = $this->input->post('part3a_6');
101    $data['part3a_7'] = $this->input->post('part3a_7');
102    $data['part3a_8'] = $this->input->post('part3a_8');
103    $data['part3a_9'] = $this->input->post('part3a_9');
104    $data['part3a_10'] = $this->input->post('part3a_10');
105    $data['part3a_11'] = $this->input->post('part3a_11');
106    $data['part3a_12'] = $this->input->post('part3a_12');
107    $data['part3a_13'] = $this->input->post('part3a_13');
108    $data['part3a_14'] = $this->input->post('part3a_14');
109    $data['part3a_15'] = $this->input->post('part3a_15');
110    $data['part3a_16'] = $this->input->post('part3a_16');
111    $data['part3a_17'] = $this->input->post('part3a_17');
112    $data['part3a_18'] = $this->input->post('part3a_18');
113    $data['part3a_19'] = $this->input->post('part3a_19');
114    $data['part3a_20'] = $this->input->post('part3a_20');
115    $data['part3a_21'] = $this->input->post('part3a_21');
116    $data['part3a_22'] = $this->input->post('part3a_22');
117    $data['part3a_23'] = $this->input->post('part3a_23');

```

```

118     $data['part3a_24'] = $this->input->post('part3a_24');
119     $data['part3a_25'] = $this->input->post('part3a_25');
120     $data['part3a_26'] = $this->input->post('part3a_26');
121
122     //part 3-B
123     $data['part3b_1'] = $this->input->post('part3b_1');
124     $data['part3b_2'] = $this->input->post('part3b_2');
125     $data['part3b_3'] = $this->input->post('part3b_3');
126
127     $data['part3b_4'] = "";
128     if($this->input->post('recitation'))
129         $data['part3b_4'] .= "recitation;";
130     if($this->input->post('quizzes'))
131         $data['part3b_4'] .= "quizzes;";
132     if($this->input->post('midterms'))
133         $data['part3b_4'] .= "midterms;";
134     if($this->input->post('finals'))
135         $data['part3b_4'] .= "finals;";
136     if($this->input->post('reports'))
137         $data['part3b_4'] .= "reports;";
138     if($this->input->post('papers'))
139         $data['part3b_4'] .= "papers;";
140     if($this->input->post('others'))
141         $data['part3b_4'] .= $this->input->post('part3b_4Other');
142
143     $data['part3b_5'] = $this->input->post('part3b_5');
144     $data['part3b_6_1'] = $this->input->post('part3b_6_1');
145     $data['part3b_6_2'] = $this->input->post('part3b_6_2');
146     $data['part3b_7'] = $this->input->post('part3b_7');
147
148     //part 3-C
149     $data['part3c'] = $this->input->post('part3c');
150
151     //insert to set table
152     $this->upset_model->saveResponse($data);
153
154     //insert to csv ($data, tablename)
155     $this->load->model('csv');
156     $this->csv->saveResponse($data, 'up_set');
157
158     //compute score
159     $score = 0;
160     for ($i = 1; $i <= 26; $i++)
161         $score += $data['part3a_'. $i];
162     $score /= 26;
163
164     $data2['student_id'] = $user_data['student_id'];
165     $data2['score'] = $score;
166     $data2['oset_class_id'] = $oset_class_id;
167
168     $this->upset_model->saveScore($data2);
169
170     $data3['evaluated'] = 1;
171     $this->upset_model->updateEvalStatus($oset_class_id,
172         $user_data['student_id'], $data3);
173     $_SESSION['msg'] = "Class evaluated.";
174 }
175     redirect("student/home", "refresh");
176 }
177 public function generateReportPerClass($oset_class_id)
178 {
179     $class = $this->classes->getInformation($oset_class_id);
180     $filename = './reports/report_per_class/'.$class['instructor_code'].'-'.
181         $class['class_id'].'.pdf';
182     if(!file_exists($filename))
183         $this->upset_model->generateReportPerClass($oset_class_id);
184     redirect(base_url($filename), 'refresh');
185 }
186 }
187 }

```

Listing 20: set/upset.php

```

1 <?php if ( ! defined('BASEPATH')) exit('No direct script access allowed');
2
3 class Home extends CI_Controller
4 {
5     public function __construct()
6     {
7         parent::__construct();
8         $this->load->model('student');
9     }
10
11    public function index()
12    {
13        $data = $this->session->userdata('logged_in');
14        $data['records'] = $this->student->getClassesToEvaluate($data['student_id']);
15        $this->load->view('student/class_list', $data);
16    }
17
18 }

```

Listing 21: student/home.php

3. Models

```

1 <?php
2
3 class UPSET_model extends CI_Model
4 {
5     public function createTable()
6     {
7         $query =
8         "CREATE TABLE IF NOT EXISTS `up_set` (
9             `response_id` int(11) NOT NULL AUTO_INCREMENT,
10            `student_id` varchar(20) NOT NULL,
11            `oset_class_id` int(11) NOT NULL,
12            `part1_1` int(11) NOT NULL,
13            `part1_2` int(11) NOT NULL,
14            `part1_3` int(11) NOT NULL,
15            `part1_4` int(11) NOT NULL,
16            `part1_5` int(11) NOT NULL,
17            `part1_6` int(11) NOT NULL,
18            `part1_7` varchar(5) NOT NULL,
19            `part1_8` varchar(5) NOT NULL,
20            `part1_9` varchar(5) NOT NULL,
21            `part2a_1` int(11) NOT NULL,
22            `part2a_2` int(11) NOT NULL,
23            `part2a_3` int(11) NOT NULL,
24            `part2a_4` int(11) NOT NULL,
25            `part2a_5` int(11) NOT NULL,
26            `part2a_6` int(11) NOT NULL,
27            `part2a_7` int(11) NOT NULL,
28            `part2b_1` varchar(5) NOT NULL,
29            `part2b_1_1` varchar(5) NOT NULL,
30            `part2b_1_1_1` varchar(300) NOT NULL,
31            `part2b_1_1_2` varchar(5) NOT NULL,
32            `part2b_2` varchar(20) NOT NULL,
33            `part2b_3` varchar(20) NOT NULL,
34            `part2b_4` varchar(10) NOT NULL,
35            `part2b_5` varchar(200) NOT NULL,
36            `part2b_6` varchar(200) NOT NULL,
37            `part3a_1` int(11) NOT NULL,
38            `part3a_2` int(11) NOT NULL,
39            `part3a_3` int(11) NOT NULL,
40            `part3a_4` int(11) NOT NULL,
41            `part3a_5` int(11) NOT NULL,
42            `part3a_6` int(11) NOT NULL,
43            `part3a_7` int(11) NOT NULL,
44            `part3a_8` int(11) NOT NULL,
45            `part3a_9` int(11) NOT NULL,

```

```

46         `part3a_10` int(11) NOT NULL,
47         `part3a_11` int(11) NOT NULL,
48         `part3a_12` int(11) NOT NULL,
49         `part3a_13` int(11) NOT NULL,
50         `part3a_14` int(11) NOT NULL,
51         `part3a_15` int(11) NOT NULL,
52         `part3a_16` int(11) NOT NULL,
53         `part3a_17` int(11) NOT NULL,
54         `part3a_18` int(11) NOT NULL,
55         `part3a_19` int(11) NOT NULL,
56         `part3a_20` int(11) NOT NULL,
57         `part3a_21` int(11) NOT NULL,
58         `part3a_22` int(11) NOT NULL,
59         `part3a_23` int(11) NOT NULL,
60         `part3a_24` int(11) NOT NULL,
61         `part3a_25` int(11) NOT NULL,
62         `part3a_26` int(11) NOT NULL,
63         `part3b_1` varchar(5) NOT NULL,
64         `part3b_2` varchar(5) NOT NULL,
65         `part3b_3` varchar(10) NOT NULL,
66         `part3b_4` varchar(100) NOT NULL,
67         `part3b_5` varchar(20) NOT NULL,
68         `part3b_6_1` varchar(20) NOT NULL,
69         `part3b_6_2` varchar(200) NOT NULL,
70         `part3b_7` varchar(20) NOT NULL,
71         `part3c` varchar(20) NOT NULL,
72         PRIMARY KEY (`response_id`)
73     ) ENGINE=InnoDB DEFAULT CHARSET=latin1 AUTO_INCREMENT=1 ;";
74
75     $this->db->query($query);
76 }
77
78 public function saveResponse($data)
79 {
80     $this->db->insert('up_set', $data);
81 }
82
83 public function saveScore($data)
84 {
85     $this->db->insert("score_per_respondent", $data);
86 }
87
88 public function updateEvalStatus($oset_class_id, $student_id, $data)
89 {
90     $this->db->where('oset_class_id', $oset_class_id);
91     $this->db->where('student_id', $student_id);
92     $this->db->update('classlist', $data);
93
94     $sql = $this->db->query("SELECT no_of_respondents FROM class WHERE
95         oset_class_id = '$oset_class_id'");
96     $count = $sql->row()->no_of_respondents + 1;
97     $this->db->where('oset_class_id', $oset_class_id);
98     $value['no_of_respondents'] = $count;
99     $this->db->update('class', $value);
100
101     $this->load->model('audit_trail');
102     $this->audit_trail->saveToDatabase("Evaluated a class");
103 }
104
105 public function checkIfEvaluated($oset_class_id, $student_id)
106 {
107     $sql = $this->db->query("SELECT evaluated FROM classlist WHERE oset_class_id =
108         '$oset_class_id' AND student_id='$student_id'");
109     return $sql->row()->evaluated;
110 }
111
112 //for reports
113 public function getReportPerClassData($oset_class_id)
114 {
115     $sql = $this->db->query("SELECT subject, section, instructor, college_code,
116         department_code,
117         class_id, no_of_respondents
118         FROM class WHERE oset_class_id = '$oset_class_id'");

```

```

116
117 $data['section'] = $sql->row()->section;
118 $data['department_code'] = $sql->row()->department_code;
119 $data['college_code'] = $sql->row()->college_code;
120 $data['class_id'] = $sql->row()->class_id;
121 $data['instructor'] = $sql->row()->instructor;
122 $data['subject'] = $sql->row()->subject.'-'. $sql->row()->section;
123 $data['no_of_respondents'] = $sql->row()->no_of_respondents;
124 $sem = substr($sql->row()->class_id, 0, 4);
125 $sem2 = $sem+1;
126 $data['sem_ay'] = substr($sql->row()->class_id, 4, 1).' / '. $sem.'-'. $sem2;
127 $data['filename'] = $filename =
    './reports/report_per_class/'. $sql->row()->instructor.'-'.
    $sql->row()->class_id.'.pdf';
128
129
130
131 for($i = 1; $i <= 6; $i++)
132     $data['part1_'. $i] = array(0=> 0, 1=>0, 2=>0, 3=>0, 4=>0, 5=>0);
133
134 $data['part1_7'] = array('NR'=> 0, 0=>0, 1=>0, '2-3'=>0, '4-5'=>0, 6=>0);
135 $data['part1_8'] = array('NR'=> 0, 0=>0, 1=>0, '2-3'=>0, '4-5'=>0, 6=>0);
136 $data['part1_9'] = array('NR'=> 0, '1.0'=>0, '1.25'=>0, '1.5'=>0, '1.75'=>0,
    '2.0'=>0, '2.25'=>0, '2.5'=>0, '2.75'=>0, '3.0'=>0, 'INC'=>0);
137
138 for($i = 1; $i <= 7; $i++)
139     $data['part2a_'. $i] = array(0=> 0, 1=>0, 2=>0, 3=>0, 4=>0);
140
141 $data['part2b_1'] = array('yes'=>0, 'no'=>0);
142 $data['part2b_1_1'] = array('yes'=>0, 'no'=>0);
143 $data['part2b_1_1_2'] = array('yes'=>0, 'no'=>0);
144 $data['part2b_2'] = array('NR'=>0, 'Too fast'=>0, 'Fast'=>0, 'Just right'=>0,
    'Slow'=>0, 'Too slow'=>0, 'Others'=>0);
145 $data['part2b_3'] = array('NR'=>0, 'Very much'=>0, 'Much'=>0, 'Some'=>0, 'Very
    little'=>0, 'Nothing'=>0);
146 $data['part2b_4'] = array('NR'=>0, 'Very much'=>0, 'Much'=>0, 'Moderately'=>0,
    'Slightly'=>0, 'Not at all'=>0);
147 $data['part2b_5'] = "<br/>";
148 $data['part2b_6'] = "<br/>";
149
150 for($i = 1; $i <= 26; $i++)
151     $data['part3a_'. $i] = array(0=> 0, 1=>0, 2=>0, 3=>0, 4=>0);
152
153 $data['part3b_1'] = array('NR'=>0, 0=>0, 1=>0, '2-3'=>0, '4-5'=>0, 6=>0);
154 $data['part3b_2'] = array('NR'=>0, 0=>0, 1=>0, '2-3'=>0, '4-5'=>0, 6=>0);
155 $data['part3b_3'] = array('NR'=>0, 'Too early'=>0, 'Early'=>0, 'On time'=>0,
    'Late'=>0, 'Very late'=>0);
156 $data['part3b_4'] = array('recitation'=>0, 'quizzes'=>0, 'midterms'=>0,
    'finals'=>0, 'reports'=>0, 'papers'=>0, 'others'=>0);
157 $data['part3b_5'] = array('NR'=>0, 'One week'=>0, 'Two weeks'=>0, 'One
    month'=>0, 'More than one month'=>0, 'Never'=>0);
158 $data['part3b_6_1'] = array('NR'=>0, 'Always'=>0, 'Usually'=>0,
    'Sometimes'=>0, 'Rarely'=>0, 'Never'=>0);
159 $data['part3b_7'] = array('NR'=>0, 'The best'=>0, 'Among the best'=>0,
    'Average'=>0, 'Among the worst'=>0, 'The worst'=>0);
160 $data['part3c'] = "<br/>";
161
162 $sql = $this->db->query("SELECT * FROM up_set WHERE oset_class_id
    ='$oset_class_id'");
163
164 foreach ($sql->result() as $row)
165 {
166     for($i = 1; $i <= 9; $i++)
167     {
168         $part="part1_". $i;
169         $data[$part][$row->$part]++;
170     }
171
172     for($i = 1; $i <= 7; $i++)
173     {
174         $part="part2a_". $i;
175         $data[$part][$row->$part]++;
176     }
177

```

```

178     for($i = 2; $i <= 4; $i++)
179     {
180         $part="part2b_".$i;
181         $data[$part][$row->$part]++;
182     }
183
184     if($row->part2b_1)
185         $data['part2b_1'][$row->part2b_1]++;
186     if($row->part2b_1_1)
187         $data['part2b_1_1'][$row->part2b_1_1]++;
188     if($row->part2b_1_1_2)
189         $data['part2b_1_1_2'][$row->part2b_1_1_2]++;
190
191     if($row->part2b_5)
192         $data['part2b_5'] .= $row->part2b_5.'<br/>';
193     if($row->part2b_6)
194         $data['part2b_6'] .= $row->part2b_6.'<br/>';
195
196     for($i = 1; $i <= 26; $i++)
197     {
198         $part="part3a_".$i;
199         $data[$part][$row->$part]++;
200     }
201
202     for($i = 1; $i <= 7; $i++)
203     {
204         if($i!=4)
205         {
206             $part="part3b_".$i;
207             if($i == 6)
208                 $part="part3b_6_1";
209             $data[$part][$row->$part]++;
210         }
211     }
212
213     $other = $row->part3b_4;
214     if(strpos($row->part3b_4, 'recitation') !== FALSE)
215     {
216         $data['part3b_4']['recitation']++;
217         $other = str_replace("recitation", "", $other);
218     }
219     if(strpos($row->part3b_4, 'quizzes') !== FALSE)
220     {
221         $data['part3b_4']['quizzes']++;
222         $other = str_replace("quizzes", "", $other);
223     }
224     if(strpos($row->part3b_4, 'midterms') !== FALSE)
225     {
226         $data['part3b_4']['midterms']++;
227         $other = str_replace("midterms", "", $other);
228     }
229     if(strpos($row->part3b_4, 'finals') !== FALSE)
230     {
231         $data['part3b_4']['finals']++;
232         $other = str_replace("finals", "", $other);
233     }
234     if(strpos($row->part3b_4, 'reports') !== FALSE)
235     {
236         $data['part3b_4']['reports']++;
237         $other = str_replace("reports", "", $other);
238     }
239     if(strpos($row->part3b_4, 'papers') !== FALSE)
240     {
241         $data['part3b_4']['papers']++;
242         $other = str_replace("papers", "", $other);
243     }
244     if($other = trim(str_replace(";", "", $other)))
245         $data['part3b_4']['others']++;
246
247     if($row->part3c)
248         $data['part3c'] .= $row->part3c.'<br/>';
249 }
250 return $data;

```



```

251 }
252
253 public function generateReportPerClass($oset_class_id)
254 {
255     $this->load->helper('file');
256     $this->load->model('report_per_class');
257     //pdf
258     $this->load->helper(array('dompdf', 'file'));
259     $data = $this->getReportPerClassData($oset_class_id);
260     //archive report
261     $html = $this->load->view('set/upset_detailedreport_view', $data, TRUE);
262     $pdf_data = pdf_create($html, '', FALSE);
263     write_file($data['filename'], $pdf_data);
264     //save link to db
265     $data = array('course' => $data['subject'],
266                 'sem_ay' => substr($data['class_id'], 0, 5),
267                 'instructor' => $data['instructor'],
268                 'path' => $data['filename'],
269                 'college' => $data['college_code'],
270                 'department' => $data['department_code']);
271
272     $this->report_per_class->saveToDatabase($data);
273 }
274 }
275 ?>

```

Listing 22: set/upset_model.php

```

1 <?php
2
3 class Audit_trail extends CI_Model
4 {
5     public function saveToDatabase($action)
6     {
7         $data['date_time'] = $this->db->query("SELECT NOW()
8             datetime")->row()->datetime;
9         $data['action'] = $action;
10        $user = $this->session->userdata('logged_in');
11        if(isset($user['username']))
12        {
13            $data['name'] = strtoupper($user['last_name'].' '.$user['first_name']);
14            $data['username'] = $user['username'];
15        }
16        else
17        {
18            $data['name'] = $user['name'];
19            $data['username'] = substr($user['student_id'], 0,
20                4).'-'.substr($user['student_id'], 4, 10);
21        }
22        $this->db->insert('audit_trail', $data);
23    }
24
25    public function getRecords($keyword, $date1, $date2)
26    {
27        if($date1 && $date2)
28        {
29            $sql = $this->db->query("SELECT username, name, audit_id, action,
30                DATE_FORMAT(date_time,'%b %d %Y %h:%i %p') date_time FROM audit_trail
31                WHERE (username LIKE '%$keyword%' OR name LIKE '%$keyword%'
32                OR action LIKE '%$keyword%') AND date_time > '$date1' AND date_time <
33                '$date2' ORDER BY audit_id DESC LIMIT 0, 30");
34        }
35        elseif($date1)
36        {
37            $sql = $this->db->query("SELECT username, name, audit_id, action,
38                DATE_FORMAT(date_time,'%b %d %Y %h:%i %p') date_time FROM audit_trail
39                WHERE (username LIKE '%$keyword%' OR name LIKE '%$keyword%'
40                OR action LIKE '%$keyword%') AND date_time > '$date1' ORDER BY audit_id
41                DESC LIMIT 0, 30");
42        }
43        elseif($date2)
44        {
45            $sql = $this->db->query("SELECT username, name, audit_id, action,
46                DATE_FORMAT(date_time,'%b %d %Y %h:%i %p') date_time FROM audit_trail
47                WHERE (username LIKE '%$keyword%' OR name LIKE '%$keyword%'
48                OR action LIKE '%$keyword%') AND date_time < '$date2' ORDER BY audit_id
49                DESC LIMIT 0, 30");
50        }
51    }
52 }

```

```

34     else
35         $sql = $this->db->query("SELECT username, name, audit_id, action,
        DATE_FORMAT(date_time, '%b %d %Y %h:%i %p') date_time FROM audit_trail
        WHERE username LIKE '%$keyword%' OR name LIKE '%$keyword%'
36         OR action LIKE '%$keyword%' ORDER BY audit_id DESC LIMIT 0, 30");
37
38     return $sql->result();
39 }
40
41 public function deleteRecord($id)
42 {
43     $this->db->where('audit_id', $id);
44     $this->db->delete('audit_trail');
45 }
46
47 }
48 ?>

```

Listing 23: audittrail.php

```

1 <?php
2
3 class Classes extends CI_Model
4 {
5     public function getRecords($college_code)
6     {
7         $sql = $this->db->query("SELECT * FROM class WHERE college_code =
        '$college_code' ORDER BY subject, section, instructor");
8
9         if ($sql->num_rows() == 0){
10             return null;
11         }
12
13         foreach ($sql->result() as $row){
14             $results['oset_class_id'][] = $row->oset_class_id;
15             $results['class_id'][] = $row->class_id;
16             $results['subject'][] = $row->subject;
17             $results['instructor'][] = $row->instructor;
18             $results['section'][] = $row->section;
19             $results['activated'][] = $row->activated;
20         }
21         return $results;
22     }
23
24     //get records with controllers
25     public function getClassesForReport($college_code, $subject, $department)
26     {
27         $sql = $this->db->query("SELECT oset_class_id, subject, instructor, section,
        controller_name
28         FROM class, set_instrument WHERE college_code = '$college_code' AND open='2'
        AND
29         class.set_instrument_id = set_instrument.set_instrument_id AND subject LIKE
        '%$subject%' AND department_code LIKE '%$department%'
30         ORDER BY subject, section, instructor");
31
32         if ($sql->num_rows() == 0){
33             return null;
34         }
35
36         foreach ($sql->result() as $row){
37             $results['oset_class_id'][] = $row->oset_class_id;
38             $results['controller_name'][] = $row->controller_name;
39             $results['subject'][] = $row->subject;
40             $results['instructor'][] = $row->instructor;
41             $results['section'][] = $row->section;
42         }
43         return $results;
44     }
45
46     public function getAllClassesForReport()

```

```

47 {
48     $sql = $this->db->query("SELECT oset_class_id, instructor,
49     model_name, class_id FROM class, set_instrument WHERE open='2' AND
50     class.set_instrument_id = set_instrument.set_instrument_id");
51
52     if ($sql->num_rows() == 0){
53         return null;
54     }
55
56     foreach ($sql->result() as $row){
57         $results['class_id'][] = $row->class_id;
58         $results['oset_class_id'][] = $row->oset_class_id;
59         $results['model_name'][] = $row->model_name;
60         $results['instructor_code'][] = $row->instructor;
61     }
62     return $results;
63 }
64
65 //faculty summarized report
66 public function getFacultyWithAllClassesClosed($college, $instructor)
67 {
68     $sql = $this->db->query("SELECT DISTINCT instructor, name FROM class, faculty
69     WHERE
70     instructor = instructor_code AND college_code = '$college' AND name LIKE
71     '%$instructor%' AND instructor NOT IN
72     (SELECT DISTINCT instructor FROM class WHERE open < '2' AND activated = '1'
73     AND activated='1'
74     ORDER BY name");
75
76     if ($sql->num_rows() == 0){
77         return null;
78     }
79
80     foreach ($sql->result() as $row)
81     {
82         $ins['instructor'][] = $row->instructor;
83         $ins['name'][] = $row->name;
84     }
85     return $ins;
86 }
87
88 public function getRating($score)
89 {
90     $rating = "";
91     if($score >= 1)
92     {
93         if ($score <= 1.24)
94             $rating = "Outstanding";
95         elseif ($score <= 1.75)
96             $rating = "Very satisfactory";
97         elseif ($score <= 2.25)
98             $rating = "Satisfactory";
99         elseif ($score <= 2.75)
100             $rating = "Fair";
101         else
102             $rating = "Needs improvement";
103     }
104     return $rating;
105 }
106
107 public function getClassesByInstructor($college, $instructor)
108 {
109     $sql = $this->db->query("SELECT subject, section, credits, no_of_students,
110     no_of_respondents, score, score*credits total
111     FROM class WHERE college_code = '$college' AND instructor='$instructor' AND
112     open='2' ORDER by subject, section");
113
114     if ($sql->num_rows() == 0){
115         return null;
116     }
117
118     foreach ($sql->result() as $row)
119     {

```

```

115     $classes['subject'][] = $row->subject.' / '.$row->section;
116     $classes['units'][] = $row->credits;
117     $classes['score'][] = $row->score;
118     $classes['total'][] = $row->total;
119     $classes['no_of_students'][] = $row->no_of_students;
120     $classes['no_of_respondents'][] = $row->no_of_respondents;
121     $classes['rating'][] = $this->getRating($row->score);
122     }
123     return $classes;
124 }
125
126 //get Info per individual oset_class id
127 public function getInformation($oset_class_id)
128 {
129     $sql = $this->db->query("SELECT faculty.name,
130     subject, section, set_instrument_id, no_of_respondents, instructor, class_id,
131     department_code, college_code FROM
132     class, faculty WHERE oset_class_id = '$oset_class_id'
133     AND instructor = instructor_code ORDER BY instructor ASC");
134
135     if ($sql->num_rows() == 0){
136         return null;
137     }
138
139     foreach ($sql->result() as $row){
140         $results['oset_class_id'] = $oset_class_id;
141         $results['subject'] = $row->subject;
142         $results['section'] = $row->section;
143         $results['no_of_respondents'] = $row->no_of_respondents;
144         $results['class_id'] = $row->class_id;
145         $results['set_instrument_id'] = $row->set_instrument_id;
146         $results['instructor'] = $row->name;
147         $results['department_code'] = $row->department_code;
148         $results['college_code'] = $row->college_code;
149         $results['instructor_code'] = $row->instructor;
150     }
151     return $results;
152 }
153
154 //get Info per individual class id
155 public function getInfo($class_id)
156 {
157     $sql = $this->db->query("SELECT instructor, subject, section,
158     set_instrument_id FROM class WHERE class_id = '$class_id' ORDER BY
159     instructor ASC");
160
161     if ($sql->num_rows() == 0){
162         return null;
163     }
164
165     foreach ($sql->result() as $row){
166         $instructor = $row->instructor;
167         $results['instructors'][] = $row->instructor;
168         $sql2 = $this->db->query("SELECT name, faculty_id FROM faculty WHERE
169         instructor_code = '$instructor'");
170         if ($sql2->num_rows()){
171             $results['names'][] = $sql2->row()->name;
172             $results['faculty_id'][] = $sql2->row()->faculty_id;
173         }
174     }
175
176     $results['class_id'] = $class_id;
177     $results['subject'] = $row->subject;
178     $results['section'] = $row->section;
179     $results['set_instrument_id'] = $row->set_instrument_id;
180
181     return $results;
182 }
183
184 //set instrument
185 public function getActivatedClasses($college_code, $subject, $department)
186 {
187     $sql = $this->db->query("SELECT oset_class_id, faculty.name as instructor,

```

```

184         subject, section, set_instrument.name FROM class,
set_instrument, faculty WHERE college_code = '$college_code' AND activated =
        '1' AND open = '0'
185 AND class.set_instrument_id = set_instrument.set_instrument_id
186 AND instructor = instructor_code
187 AND subject LIKE '%$subject%' AND department_code LIKE '%$department%' ORDER
        BY subject, section, instructor");
188
189 if ($sql->num_rows() == 0){
190     return null;
191 }
192
193 foreach ($sql->result() as $row){
194     $results['oset_class_id'][] = $row->oset_class_id;
195     $results['subject'][] = $row->subject;
196     $results['section'][] = $row->section;
197     $results['instructor'][] = $row->instructor;
198     $results['set_instrument'][] = $row->name;
199 }
200 return $results;
201 }
202
203 //evaluation mode
204 public function getClassesByStatus($status, $college_code, $subject, $department)
205 {
206     if($status == 2)
207     {
208         $sql = $this->db->query("SELECT oset_class_id, open, no_of_students,
                no_of_respondents, name, instructor, subject, section FROM class,
                faculty
209 WHERE college_code = '$college_code' AND activated = '1' AND open > '0'
210 AND subject LIKE '%$subject%' AND department_code LIKE '%$department%' AND
                instructor=instructor_code
211 ORDER BY subject, section, instructor");
212
213         if ($sql->num_rows() == 0){
214             return null;
215         }
216
217         foreach ($sql->result() as $row){
218             $results['oset_class_id'][] = $row->oset_class_id;
219             $results['subject'][] = $row->subject;
220             $results['section'][] = $row->section;
221             $results['instructor'][] = $row->name;
222             $results['no_of_students'][] = $row->no_of_students;
223             $results['no_of_respondents'][] = $row->no_of_respondents;
224             $results['status'][] = $row->open;
225         }
226     }
227     else
228     {
229         $sql = $this->db->query("SELECT oset_class_id, no_of_students,
                no_of_respondents, name, instructor, subject, section FROM class,
                faculty
230 WHERE college_code = '$college_code' AND activated = '1' AND open =
                '$status'
231 AND subject LIKE '%$subject%' AND department_code LIKE '%$department%' AND
                instructor=instructor_code
232 ORDER BY subject, section, instructor");
233
234         if ($sql->num_rows() == 0){
235             return null;
236         }
237
238         foreach ($sql->result() as $row){
239             $results['oset_class_id'][] = $row->oset_class_id;
240             $results['subject'][] = $row->subject;
241             $results['section'][] = $row->section;
242             $results['instructor'][] = $row->name;
243             $results['no_of_students'][] = $row->no_of_students;
244             $results['no_of_respondents'][] = $row->no_of_respondents;
245         }
246     }

```

```

247     return $results;
248 }
249
250 //score
251 public function getScore($oset_class_id)
252 {
253     $score = 0;
254     $sql = $this->db->query("SELECT AVG(score) average FROM `score_per_respondent`
        WHERE oset_class_id = '$oset_class_id' AND score > '0'");
255     if($sql->num_rows())
256         $score = $sql->row()->average;
257     return $score;
258 }
259
260 //instructors
261 public function getInstructors($class_id)
262 {
263     $sql = $this->db->query("SELECT instructor, faculty_id, activated FROM class,
        faculty WHERE class_id = '$class_id' AND instructor_code = instructor
        ORDER BY instructor ASC");
264
265     if ($sql->num_rows() == 0){
266
267         $sql = $this->db->query("SELECT instructor, activated FROM class WHERE
            class_id = '$class_id' ORDER BY instructor ASC");
268
269         foreach ($sql->result() as $row){
270             $result['instructors'][] = $row->instructor;
271             $result['faculty_id'][] = "";
272             $result['activated'][] = $row->activated;
273         }
274         return $result;
275     }
276
277     foreach ($sql->result() as $row){
278         $result['instructors'][] = $row->instructor;
279         $result['faculty_id'][] = $row->faculty_id;
280         $result['activated'][] = $row->activated;
281     }
282     return $result;
283 }
284
285 public function getDistinctClass($college_code, $subject, $department)
286 {
287     $sql = $this->db->query("SELECT DISTINCT class_id, subject, section FROM class
        WHERE college_code = '$college_code'
288         AND subject LIKE '%$subject%' AND department_code LIKE
            '%$department%' ORDER BY subject, section ASC");
289
290     if ($sql->num_rows() == 0){
291         return null;
292     }
293
294     foreach ($sql->result() as $row){
295         $results['class_id'][] = $row->class_id;
296         $results['subject'][] = $row->subject;
297         $results['section'][] = $row->section;
298         $res = $this->getInstructors($row->class_id);
299         $results['activated'][$row->class_id] = $res['activated'];
300         $results['instructors'][$row->class_id] = $res['instructors'];
301         $results['faculty_id'][$row->class_id] = $res['faculty_id'];
302     }
303     return $results;
304 }
305
306 //instructors
307 public function deleteInstructor($class_id, $instructor)
308 {
309     $sql = $this->db->query("SELECT * FROM class WHERE class_id = '$class_id'");
310     if($sql->num_rows() > 1)
311     {
312         $sql = $this->db->query("SELECT instructor_code FROM faculty WHERE
            faculty_id = '$instructor'");

```

```

313     $instructor = $sql->row()->instructor_code;
314     $sql = $this->db->query("DELETE FROM class WHERE class_id = '$class_id' AND
        instructor = '$instructor'");
315     }
316     else
317     {
318         $data['instructor'] = "";
319         $this->db->where('class_id', $class_id);
320         $this->db->update('class', $data);
321     }
322 }
323
324 public function addInstructor($class_id, $instructor)
325 {
326     $sql = $this->db->query("SELECT * FROM class WHERE class_id = '$class_id'");
327     if($sql->num_rows() == 1)
328         if(!$sql->row()->instructor)
329         {
330             $data['instructor'] = $instructor;
331             $this->db->where('class_id', $class_id);
332             $this->db->update('class', $data);
333             return;
334         }
335
336     $data['class_id'] = $class_id;
337     $data['subject'] = $sql->row()->subject;
338     $data['section'] = $sql->row()->section;
339     $data['credits'] = $sql->row()->credits;
340     $data['no_of_students'] = $sql->row()->no_of_students;
341     $data['activated'] = '0';
342     $data['department_code'] = $sql->row()->department_code;
343     $data['college_code'] = $sql->row()->college_code;
344     $data['instructor'] = $instructor;
345     $this->db->insert('class', $data);
346 }
347
348 public function checkInstructorCode($class_id, $instructor)
349 {
350     $sql = $this->db->query("SELECT * FROM class WHERE class_id = '$class_id' AND
        instructor = '$instructor'");
351     if($sql->num_rows() == 0)
352         return true;
353     else
354         return false;
355 }
356
357 //delete
358 public function deleteAll()
359 {
360     $sql = $this->db->query("TRUNCATE class");
361     $sql = $this->db->query("TRUNCATE classlist");
362 }
363
364 public function deleteByCollegeCode($college_code)
365 {
366     $sql = $this->db->query("DELETE FROM class WHERE college_code =
        '$college_code'");
367 }
368
369 //updates
370 public function update($oset_class_id, $data)
371 {
372     $this->db->where('oset_class_id', $oset_class_id);
373     $this->db->update('class', $data);
374 }
375
376 public function updateActivationStatus($class_id, $instructor, $data)
377 {
378     $this->db->where('instructor', $instructor);
379     $this->db->where('class_id', $class_id);
380     $this->db->update('class', $data);
381 }
382

```

```

383 //download
384 public function downloadClasses($college_code)
385 {
386     $this->deleteByCollegeCode($college_code);
387
388     $this->load->model('SET_model');
389     $setdata = $this->SET_model->getRecords();
390     $sem = $setdata['semester'];
391
392     $sql = $this->db->query("SELECT * FROM department WHERE college_code =
        '$college_code'");
393     if ($sql->num_rows() == 0){
394         return null;
395     }
396
397     foreach ($sql->result() as $row){
398         $departments[] = $row->department_code;
399     }
400
401     $sem = (int)$sem;
402     $sem1 = $sem + 1;
403     $sem = (int)$sem * 100000;
404     $sem1 = (int)$sem1 * 100000;
405
406     $query = "SELECT classid, extracode, section, subject, instructors, unit,
        actualcredits, enlisted from osetuser_classes_view
407         WHERE classid>'$sem' AND classid <'$sem1'
408         AND subject NOT LIKE '%RESIDEN%' AND class NOT LIKE '%cancelled%' AND
        enlisted > '0' AND (";
409
410     $dcounter=0;
411
412     while($dcounter < count($departments))
413     {
414         $query .= " unit = '" . $departments[$dcounter]. "'";
415         $dcounter++;
416         if($dcounter < count($departments)){
417             $query .= ' OR ' ;
418         }
419     }
420     $query .= ")";
421
422     $this->db_crs = $this->load->database('crs', TRUE);
423
424     $sql = $this->db_crs->query($query);
425
426     if ($sql->num_rows() == 0){
427         return null;
428     }
429
430     $instructor = "";
431     $subject = "";
432
433     foreach ($sql->result() as $row){
434         if($row->instructors == "TBA"){
435             $instructor = "";
436         }else{
437             $instructor = $row->instructors;
438         }
439         $subject = $row->subject;
440
441         if($row->extracode!=""){
442             if(substr($row->extracode,0,3)=="LAB"){
443                 $subject = $subject." LAB";
444             }else if(substr($row->extracode,0,3)=="LEC"){
445                 $subject = $subject." LEC";
446             }
447         }
448
449         //split instructors
450         if($index = strpos($instructor, ";") > 0)
451         {
452             $instructors = explode(';', $instructor);

```



```

453
454     foreach ($instructors as $instructor)
455     {
456         $instructor = trim($instructor);
457         $data = array(
458             'class_id' => $row->classid,
459             'section' => $row->section,
460             'credits' => $row->actualcredits,
461             'no_of_students' => $row->enlisted,
462             'subject' => $subject,
463             'instructor' => $instructor,
464             'department_code' => $row->unit,
465             'college_code' => $college_code
466         );
467
468         $this->db->insert('class', $data);
469
470         //import instructor
471         if($instructor)
472         {
473             $sql = $this->db->query("SELECT * FROM faculty WHERE instructor_code
474                 = '$instructor'");
475
476             if ($sql->num_rows() == 0){
477
478                 $sql2 = $this->db_crs->query("SELECT instructorcode, firstname,
479                     lastname from osetuser_employees_view
480                     WHERE instructorcode = '$instructor'");
481
482                 if ($sql2->num_rows() != 0){
483                     $data = array(
484                         'name' => strtoupper($sql2->row()->firstname).
485                             Chr(32) .strtoupper($sql2->row()->lastname),
486                         'instructor_code' => $sql2->row()->instructorcode
487                     );
488
489                     $this->db->insert('faculty', $data);
490                 }
491                 else
492                 {
493                     $data = array(
494                         'name' => $instructor,
495                         'instructor_code' => $instructor
496                     );
497                     $this->db->insert('faculty', $data);
498                 }
499             }
500         }
501     }
502     else
503     {
504         if(!$instructor)
505             $instructor = "";
506         $data = array(
507             'class_id' => $row->classid,
508             'section' => $row->section,
509             'subject' => $subject,
510             'credits' => $row->actualcredits,
511             'no_of_students' => $row->enlisted,
512             'instructor' => $instructor,
513             'department_code' => $row->unit,
514             'college_code' => $college_code
515         );
516
517         $this->db->insert('class', $data);
518
519         //import instructor
520         if($instructor)
521         {
522             $sql = $this->db->query("SELECT * FROM faculty WHERE instructor_code =
523                 '$instructor'");

```

```

522
523     if ($sql->num_rows() == 0){
524
525         $sql2 = $this->db_crs->query("SELECT instructorcode, employeeid,
526             firstname, lastname from osetuser_employees_view
527             WHERE instructorcode = '$instructor'");
528
529         if ($sql2->num_rows() != 0){
530             $data = array(
531                 'name' => strtoupper($sql2->row()->firstname). Chr(32)
532                     .strtoupper($sql2->row()->lastname),
533                 'instructor_code' => $sql2->row()->instructorcode
534             );
535             $this->db->insert('faculty', $data);
536         }
537         else
538         {
539             $data = array(
540                 'name' => $instructor,
541                 'instructor_code' => $instructor
542             );
543             $this->db->insert('faculty', $data);
544         }
545     }
546 }
547 }
548
549 $this->db->where('college_code', $college_code);
550 $value['downloaded'] = 1;
551 $this->db->update('college', $value);
552 }
553 }
554 }
555 ?>

```

Listing 24: classes.php

```

1 <?php
2
3 class College extends CI_Model
4 {
5     public function saveToDatabase($data)
6     {
7         $result = $this->db->insert('college', $data);
8
9         if($result){
10             return $this->db->insert_id();
11         }
12
13         return false;
14     }
15
16     public function updateRecord($data, $id)
17     {
18         $this->db->where('college_code', $id);
19         $this->db->update('college', $data);
20     }
21
22     public function deleteRecord($id)
23     {
24         $this->db->where('college_code', $id);
25         $this->db->delete('college');
26     }
27
28     public function getInfo($college_code)
29     {
30         $sql = $this->db->query("SELECT * FROM college WHERE
31             college_code='$college_code'");

```

```

31     return $sql->row();
32 }
33
34 public function getRecords()
35 {
36     $sql = $this->db->query("SELECT * FROM college ORDER BY college_name ASC");
37
38     if ($sql->num_rows() == 0){
39         return null;
40     }
41
42     $i = 0;
43     foreach ($sql->result() as $row){
44         $results['college_code'][] = $row->college_code;
45         $results['college_name'][] = $row->college_name;
46         $results['downloaded'][] = $row->downloaded;
47     }
48     return $results;
49 }
50
51 public function getDepartments($college_code)
52 {
53     $sql = $this->db->query("SELECT * FROM department WHERE college_code =
54         '$college_code' ORDER BY department_name ASC");
55
56     if ($sql->num_rows() == 0){
57         return null;
58     }
59
60     $i = 0;
61     foreach ($sql->result() as $row){
62         $results['department_code'][] = $row->department_code;
63         $results['department_name'][] = $row->department_name;
64     }
65     return $results;
66 }
67
68 public function resetDownloadStatus()
69 {
70     $value['downloaded'] = 0;
71     $this->db->update('college', $value);
72 }
73
74 public function checkCollegeCode($college_code)
75 {
76     $sql = $this->db->query("SELECT * FROM college WHERE
77         college_code='$college_code'");
78
79     if ($sql->num_rows() == 0)
80         return true;
81     else
82         return false;
83 }
84 }
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1000 }

```

Listing 25: college.php

```

1 <?php if ( ! defined('BASEPATH')) exit('No direct script access allowed');
2
3 class Csv extends CI_Model
4 {
5     public function saveResponse($data, $table)
6     {
7         //get class info
8         $this->load->model('classes');
9         $class = $this->classes->getInformation($data['oset_class_id']);
10        $data['section'] = $class['section'];
11        $data['subject'] = $class['subject'];
12        $data['instructor'] = $class['instructor'];

```

```

13  $data['department_code'] = $class['department_code'];
14  $data['college_code'] = $class['college_code'];
15
16  //get student info
17  $this->load->model('student');
18  $student = $this->student->getInfo($data['student_id']);
19  $data['name'] = $student->name;
20  $data['program'] = $student->program;
21
22  foreach ($data as $key => $val)
23  {
24      $data[$key] = "'".$val."'";
25  }
26
27  $data['student_id'] = substr_replace($data['student_id'], '-', 5, 0);
28  $response =
29      "\n".$data['student_id'].'.'.$data['name'].'.'.$data['program'].'.'.
30      $data['subject'].'.'.$data['section'].'.'.$data['instructor'].'.'.
31      $data['department_code'].'.'.$data['college_code'].'.';
32
33  $sql = $this->db->query("SHOW COLUMNS FROM $table WHERE Field NOT IN
34      ('response_id', 'student_id', 'oset_class_id')");
35
36  foreach ($sql->result() as $row)
37  {
38      if(!isset($data[$row->Field]))
39          $data[$row->Field] = "NR";
40      $response .= $data[$row->Field].',';
41  }
42  $response = rtrim($response, ",");
43
44  $fp = fopen('./csv/'.$table.'.csv', 'a');
45  fwrite($fp, $response);
46  fclose($fp);
47  }
48 }

```

Listing 26: csv.php

```

1  <?php
2
3  class Department extends CI_Model
4  {
5      public function getRecords()
6      {
7          $sql = $this->db->query("SELECT * FROM department ORDER BY college_code");
8
9          if ($sql->num_rows() == 0){
10             return null;
11         }
12
13         $i = 0;
14         foreach ($sql->result() as $row){
15             $results['college_code'][] = $row->college_code;
16             $results['department_code'][] = $row->department_code;
17             $results['department_name'][] = $row->department_name;
18         }
19         return $results;
20     }
21 }
22 ?>

```

Listing 27: department.php

```

1  <?php
2
3  class Faculty extends CI_Model
4  {

```

```

5 public function saveToDatabase($data)
6 {
7     $result = $this->db->insert('faculty', $data);
8
9     if($result){
10         return $this->db->insert_id();
11     }
12
13     return false;
14 }
15
16 public function getRecords()
17 {
18     $sql = $this->db->query("SELECT name, instructor_code FROM faculty ORDER BY
19         name ASC ");
20
21     if ($sql->num_rows() == 0){
22         return null;
23     }
24
25     $i = 0;
26     foreach ($sql->result() as $row){
27         $results['instructor_code'][] = $row->instructor_code;
28         $results['name'][] = $row->name;
29     }
30     return $results;
31 }
32
33 public function deleteAll()
34 {
35     $sql = $this->db->query("TRUNCATE faculty");
36 }
37
38 public function delete($instructor_code)
39 {
40     $sql = $this->db->query("DELETE FROM faculty WHERE instructor_code =
41         '$instructor_code'");
42 }
43 }
44 }
45 }
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```

Listing 28: faculty.php

```

1 <?php if ( ! defined('BASEPATH')) exit('No direct script access allowed');
2
3 class Faculty_summarized_report extends CI_Model
4 {
5     public function getRecords($college, $sem_ay)
6     {
7         $sql = $this->db->query("SELECT sem_ay, college, path, college_name FROM
8             faculty_summarized_report,
9             college WHERE college = '$college' AND college = college_code AND sem_ay LIKE
10                '%$sem_ay%' ORDER BY sem_ay");
11         if ($sql->num_rows() == 0){
12             return null;
13         }
14
15         foreach ($sql->result() as $row){
16             $results['sem_ay'][] = $row->sem_ay;
17             $results['college_name'][] = $row->college_name;
18             $results['college_code'][] = $row->college;
19             $results['path'][] = $row->path;
20         }
21         return $results;
22     }
23
24     public function saveToDatabase($data)
25     {
26         $result = $this->db->insert('faculty_summarized_report', $data);
27     }
28 }

```

```

26
27 public function getDistinctSemAY($college)
28 {
29     $sql = $this->db->query("SELECT DISTINCT(sem_ay) FROM
30         faculty_summarized_report ORDER BY sem_ay DESC");
31     if($sql->num_rows() == 0){
32         return null;
33     }
34     foreach ($sql->result() as $row){
35         $sem_ay[] = $row->sem_ay;
36     }
37     return $sem_ay;
38 }
39 }

```

Listing 29: faculty_summarized_report.php

```

1 <?php if ( ! defined('BASEPATH')) exit('No direct script access allowed');
2
3 class Report_per_class extends CI_Model
4 {
5     public function getRecords($college, $sem_ay, $course, $department)
6     {
7         $sql = $this->db->query("SELECT * FROM report_per_class WHERE sem_ay =
8             '$sem_ay' AND college='$college'
9             AND department LIKE '%$department%' AND course LIKE
10                '%$course%' ORDER BY course");
11     if ($sql->num_rows() == 0){
12         return null;
13     }
14     foreach ($sql->result() as $row){
15         $results['department'][] = $row->department;
16         $results['course'][] = $row->course;
17         $results['instructor'][] = $row->instructor;
18         $results['path'][] = $row->path;
19     }
20     return $results;
21 }
22 public function saveToDatabase($data)
23 {
24     $result = $this->db->insert('report_per_class', $data);
25 }
26
27 public function getDistinctSemAY($college)
28 {
29     $sql = $this->db->query("SELECT DISTINCT(sem_ay) FROM report_per_class ORDER
30         BY sem_ay DESC");
31     if($sql->num_rows() == 0){
32         return null;
33     }
34     foreach ($sql->result() as $row){
35         $sem_ay[] = $row->sem_ay;
36     }
37     return $sem_ay;
38 }

```

Listing 30: report_per_class.php

```

1 <?php if ( ! defined('BASEPATH')) exit('No direct script access allowed');
2
3 class SET_instrument extends CI_Model
4 {
5     public function getRecords()
6     {

```

```

7     $sql = $this->db->query("SELECT * FROM set_instrument");
8     if ($sql->num_rows() == 0){
9         return null;
10    }
11
12    foreach ($sql->result() as $row){
13        $results['set_instrument_id'][] = $row->set_instrument_id;
14        $results['name'][] = $row->name;
15        $results['controller_name'][] = $row->controller_name;
16        $results['model_name'][] = $row->model_name;
17        $results['table_name'][] = $row->table_name;
18        $results['set_as_default'][] = $row->set_as_default;
19    }
20    return $results;
21 }
22
23 public function getFields($table)
24 {
25     $sql = $this->db->query("SHOW COLUMNS FROM $table WHERE Field NOT IN
26         ('response_id', 'student_id', 'oset_class_id')");
27     return $sql->result();
28 }
29
30 public function getInfo($id)
31 {
32     $sql = $this->db->query("SELECT * FROM set_instrument WHERE set_instrument_id
33         = '$id'");
34     return $sql->row();
35 }
36
37 public function getNextSetID()
38 {
39     $sql = $this->db->query("SELECT COUNT(*) count FROM set_instrument");
40     return $sql->row()->count+1;
41 }
42
43 public function getDefaultSET()
44 {
45     $sql = $this->db->query("SELECT * FROM set_instrument WHERE set_as_default =
46         '1'");
47     return $sql->row()->set_instrument_id;
48 }
49
50 public function setAsDefault($set_id)
51 {
52     $sql = $this->db->query("UPDATE set_instrument SET set_as_default = '0'");
53     $sql = $this->db->query("UPDATE set_instrument SET set_as_default = '1' WHERE
54         set_instrument_id = '$set_id'");
55 }
56
57 public function updateRecord($data, $id)
58 {
59     $this->db->where('set_instrument_id', $id);
60     $this->db->update('set_instrument', $data);
61 }
62
63 public function saveToDatabase($data)
64 {
65     $result = $this->db->insert('set_instrument', $data);
66 }
67
68 public function checkTableName($table_name)
69 {
70     $sql = $this->db->query("SELECT * FROM set_instrument WHERE table_name =
71         '$table_name'");
72     if ($sql->num_rows() == 0)
73         return TRUE;
74     else
75         return FALSE;
76 }
77
78 public function isEmpty()
79 {

```

```

75     $sql = $this->db->query("SELECT * FROM set_instrument");
76     if($sql->num_rows() == 0)
77         return TRUE;
78     else
79         return FALSE;
80 }
81
82 public function createTables($model)
83 {
84     $this->load->model('set/'.$model);
85     $this->$model->createTable();
86 }
87
88 }

```

Listing 31: set_instrument.php

```

1 <?php if ( ! defined('BASEPATH')) exit('No direct script access allowed');
2
3 class SET_model extends CI_Model
4 {
5     public function updateSETstatus($data)
6     {
7         $this->db->update('set_status', $data);
8     }
9
10    public function getRecords()
11    {
12        $sql = $this->db->query("SELECT * FROM set_status");
13        if ($sql->num_rows() == 0){
14            return null;
15        }
16        $results['accounts_generated'] = $sql->row()->accounts_generated;
17        $results['semester'] = $sql->row()->sem_ay;
18        return $results;
19    }
20
21    public function resetSET()
22    {
23        $this->db->update('set_status', array('accounts_generated' => '0'));
24        $this->db->query('TRUNCATE score_per_respondent');
25        $sql = $this->db->query('SELECT table_name FROM set_instrument');
26        $this->load->helper('file');
27        if($sql->num_rows() > 0)
28        {
29            foreach ($sql->result() as $row)
30            {
31                $this->db->query('TRUNCATE '.$row->table_name);
32                $this->writeCSV($row->table_name);
33            }
34        }
35    }
36
37    public function writeCSV($table_name)
38    {
39        $this->load->model('set_instrument');
40        //create file
41        $file = './csv/'.$table_name.'.csv';
42        if(file_exists($file))
43            unlink($file);
44        $fp = fopen($file, 'w');
45        //write column header
46        $header =
47            "student_number","student_name","student_program","subject","section",
48            "instructor","department_code","college_code','";
49        $fields = $this->set_instrument->getFields($table_name);
50
51        foreach ($fields as $row)
52            $header .= "'".$row->Field.'"','';
53        $header = rtrim($header, ",");

```



```

53
54     fwrite($fp, $header);
55     fclose($fp);
56 }
57 }

```

Listing 32: set_model.php

```

1 <?php
2
3 class Student extends CI_Model
4 {
5     public function getRecords($college_code, $keyword)
6     {
7         $sql = $this->db->query("SELECT * FROM student WHERE college_code LIKE
            '%$college_code%' AND name LIKE '%$keyword%' ORDER BY college_code, name
            ASC");
8
9         if ($sql->num_rows() == 0){
10             return null;
11         }
12
13         foreach ($sql->result() as $row){
14             $results['name'][] = $row->name;
15             $results['student_id'][] = $row->student_id;
16             $results['college_code'][] = $row->college_code;
17             $results['program'][] = $row->program;
18         }
19         return $results;
20     }
21
22     public function getInfo($student_id)
23     {
24         $sql = $this->db->query("SELECT * FROM student WHERE student_id =
            '$student_id'");
25         return $sql->row();
26     }
27
28     public function getClasses($student_id)
29     {
30         $sql = $this->db->query("SELECT class.oset_class_id,subject, section,
            instructor, department_code
31             FROM classlist, class WHERE class.oset_class_id = classlist.oset_class_id AND
            student_id = '$student_id'");
32
33         $i = 0;
34         foreach ($sql->result() as $row)
35         {
36             $results['class_id'][$i] = $row->oset_class_id;
37             $results['subject'][$i] = $row->subject;
38             $results['section'][$i] = $row->section;
39             $results['department_code'][$i] = $row->department_code;
40             $results['instructor'][$i] = $row->instructor;
41             $i++;
42         }
43         return $results;
44     }
45
46     public function getClassesToEvaluate($student_id)
47     {
48         $sql = $this->db->query("SELECT class.oset_class_id, subject, section,
            faculty.name, controller_name, open, evaluated
49             FROM class, classlist, faculty, set_instrument WHERE
50             class.oset_class_id = classlist.oset_class_id AND
51             instructor = instructor_code AND
52             set_instrument.set_instrument_id = class.set_instrument_id
53             AND student_id = '$student_id' ORDER BY subject, name");
54
55         foreach ($sql->result() as $row)
56         {

```

```

57     $results['oset_class_id'][] = $row->oset_class_id;
58     $results['subject'][] = $row->subject;
59     $results['section'][] = $row->section;
60     $results['controller_name'][] = $row->controller_name;
61     $results['instructor'][] = $row->name;
62     $results['open'][] = $row->open;
63     $results['evaluated'][] = $row->evaluated;
64 }
65 return $results;
66 }
67
68 public function getUnevaluatedClasses($student_id)
69 {
70     $sql = $this->db->query("SELECT subject, section, instructor FROM classlist,
71         class
72     WHERE student_id = '$student_id' AND classlist.oset_class_id =
73         class.oset_class_id
74     AND evaluated = '0'");
75
76     if ($sql->num_rows() == 0){
77         return false;
78     }
79
80     foreach ($sql->result() as $row){
81         $results['subject'][] = $row->subject;
82         $results['section'][] = $row->section;
83         $results['instructor'][] = $row->instructor;
84     }
85
86     return $results;
87 }
88
89 public function deleteAll()
90 {
91     $sql = $this->db->query("TRUNCATE student");
92 }
93
94 public function update($data, $id)
95 {
96     $this->db->where('student_id', $id);
97     $this->db->update('student', $data);
98 }
99
100 public function importClasslist()
101 {
102     $this->load->model('SET_model');
103     $setdata = $this->SET_model->getRecords();
104     $sem = $setdata['semester'];
105
106     $this->db_crs = $this->load->database('crs', TRUE);
107
108     //delete classlist, student
109     $sql = $this->db->query("TRUNCATE classlist");
110     $sql = $this->db->query("TRUNCATE student");
111
112     $sql = $this->db->query("SELECT oset_class_id, class_id from class where
113         activated = '1'");
114     foreach ($sql->result() as $row){
115         $activatedClasses['oset_class_id'][] = $row->oset_class_id;
116         $activatedClasses['class_id'][] = $row->class_id;
117     }
118
119     $i = 0;
120     $query = "INSERT INTO classlist (oset_class_id, student_id) VALUES ";
121     foreach ($activatedClasses['class_id'] as $activatedClass)
122     {
123         $sql = $this->db_crs->query("SELECT studentid, classid from
124             osetuser_classlists_view where classid = '$activatedClass'");
125         foreach ($sql->result() as $row)
126         {
127             $query .= "('$activatedClasses['oset_class_id'][$i].'",
128                 '$row->studentid.'"), ";
129         }
130     }

```

```

125
126     $i++;
127     if(($i) % 100 == 0)
128     {
129         $query = substr($query, 0, strlen($query)-2);
130         $sql = $this->db->query($query);
131         $query = "INSERT INTO classlist (oset_class_id, student_id) VALUES ";
132     }
133 }
134 if($i % 100 != 0)
135 {
136     $query = substr($query, 0, strlen($query)-2);
137     $sql = $this->db->query($query);
138 }
139 }
140
141 public function importStudents()
142 {
143     //import students (based on classlist)
144     $this->db_crs = $this->load->database('crs', TRUE);
145     $sql = $this->db->query("SELECT DISTINCT student_id FROM classlist");
146     foreach ($sql->result() as $row){
147         $activatedStudents[] = $row->student_id;
148     }
149
150     $query = "INSERT INTO student (student_id, name, college_code, program) VALUES
151             ";
152     $i = 0;
153     foreach ($activatedStudents as $activatedStudent)
154     {
155         $sql = $this->db_crs->query("SELECT s.studentid, unit, program, lastname,
156             firstname from osetuser_students_view s, osetuser_studentterms_view st
157             where s.studentid = st.studentid AND s.studentid =
158             '$activatedStudent'");
159         $row = $sql->row();
160
161         $unit = $row->unit;
162         if($row->unit == 'NTTC')
163             $unit = 'NTTCHP';
164
165         $query .= ' ("'. $row->studentid. '", "'. $row->lastname. ' ', ' '.
166             $row->firstname. '",
167             "'. $row->unit. '", "'. $row->program. '", ' ';
168
169         if($i % 50 == 0)
170         {
171             $query = substr($query, 0, strlen($query)-2);
172             $sql = $this->db->query($query);
173             $query = "INSERT INTO student (student_id, name, college_code, program)
174                 VALUES ";
175         }
176         $i++;
177     }
178 }
179
180 public function accountGenerated()
181 {
182     $sql = $this->db->query("SELECT accounts_generated FROM set_status");
183     if($sql->row()->accounts_generated == 1)
184         return true;
185     else
186         return false;
187 }
188 }
189 ?>

```

Listing 33: student.php

```

1 <?php
2
3 class User extends CI_Model
4 {
5     public function login($username, $password)
6     {
7         $sql = $this->db->query("SELECT username, password, user_type, first_name,
8             last_name, college_code, salt FROM users WHERE username=' $username'");
9         $row = $sql->row();
10
11         if($row)
12         {
13             $password = $password.$row->salt;
14             if($row->password == MD5($password))
15                 return $sql->row();
16         }
17         else
18         {
19             //check if student
20             $username = str_replace("-", "", $username);
21             $sql = $this->db->query("SELECT name, password, student_id, salt FROM
22                 student WHERE student_id=' $username'");
23             $row = $sql->row();
24
25             if($row)
26             {
27                 $password = $password.$row->salt;
28                 if($row->password == MD5($password))
29                     return $sql->row();
30             }
31         }
32         return false;
33     }
34
35     public function saveToDatabase($data)
36     {
37         $result = $this->db->insert('users', $data);
38         $this->load->model('audit_trail');
39         $this->audit_trail->saveToDatabase('Added user account');
40     }
41
42     public function updateRecord($data, $id)
43     {
44         $this->db->where('username', $id);
45         $this->db->update('users', $data);
46         $this->load->model('audit_trail');
47         $this->audit_trail->saveToDatabase('Updated user account');
48     }
49
50     public function deleteRecord($id)
51     {
52         $this->db->where('username', $id);
53         $this->db->delete('users');
54         $this->load->model('audit_trail');
55         $this->audit_trail->saveToDatabase('Deleted user account');
56     }
57
58     public function getInfo($username)
59     {
60         $sql = $this->db->query("SELECT * FROM users WHERE username=' $username'");
61         return $sql->row();
62     }
63
64     public function getRecords($keyword)
65     {
66         if($keyword == "")
67             $sql = $this->db->query("SELECT * FROM users ORDER BY last_name ASC");
68         else
69             $sql = $this->db->query("SELECT * FROM users WHERE username LIKE
70                 '%$keyword%' OR first_name LIKE '%$keyword%' OR last_name LIKE
71                 '%$keyword%' ORDER BY first_name ASC");
72
73         if ($sql->num_rows() == 0) {

```



```

        echo validation_errors(); else echo "<br/>";
        ?&nbsp;   </font></td></tr>
27      <tr></td></tr>
28      <tr><td>Username</tr>
29      <tr><td><input type="text" name="username" size=25 required/>
        <br/></tr>
30      <tr><td><br/></td></tr>
31      </tr>
32      <tr><td>Password</tr>
33      <tr><td><input type="password" name="password" size=25 required/>
        <br/></tr>
34      <tr>
35          <td colspan=2 align="center"><br/><br/><input type="submit"
            class="button" name="submit" value="Login" />
36      </tr>
37      </table>
38      <?php echo form_close();?>
39      </center>
40      </div>
41      </div>
42      <div class="right">
43
44          <span style="font-family: Georgia; font-weight: normal; font-size: 23px;
            color: maroon">Student Evaluation of Teachers (SET)</span>
45      <br/><br/>
46      <div style="font-size: 13px; line-height: 1.6; width: 95%;">
47      <p>
48          Please login using your student number (e.g. 2010-99999) as username
            and password given to you.
49      </p>
50      <span style="font-size: 15px;">About SET</span>
51      <p>
52          Students of the University of the Philippines Manila are requested to
            evaluate the teaching
53      performance of their respective classes near the end of the semester.
54      </p>
55      <p>
56          The main purpose of the Student Evaluation of Teaching Performance
            (SET) is for the students to share their thoughts, feelings and
57      suggestions on how to improve
58      the particular class as well as the performance of the faculty being
            evaluated so that the
59      degree programs of different colleges can be enhanced and the benefits
            that the students get from
60      their classes can be maximized.
61      </p>
62      </div>
63      </div>
64      </div>
65      </body>

```

Listing 35: login.view.php

```

1      <header>
2          <title>OSET 4.0</title>
3          <link href='<?=base_url('css/style.css')?>' rel='stylesheet' type='text/css'>
4      </header>
5
6      <body>
7          <div class="wrapper">
8              <?php include('header.php'); ?>
9
10         <div class = "right">
11
12         </div>
13     </div>
14 </body>

```

Listing 36: home.php

```

1 <meta http-equiv='Content-Type' content='text/html; charset=UTF-8' />
2 <script src="<?php if(strpos($_SERVER["PHP_SELF"],"changepassword")) echo
  str_replace('http', 'https', base_url('js/jquery-1.9.1.js')); else echo
  base_url('js/jquery-1.9.1.js');?>"></script>
3 <script src="<?php if(strpos($_SERVER["PHP_SELF"],"changepassword")) echo
  str_replace('http', 'https', base_url('js/jquery-ui.js')); else echo
  base_url('js/jquery-ui.js');?>"></script>
4 <script>
5 <?php
6     $index = 0;
7     if(isset($isAdmin)) $index++;
8     if(isset($isClerk)) $index++;
9     if(isset($isAnalyst)) $index++;
10    if(strpos($_SERVER["PHP_SELF"],"changepassword") === false)
11        $index = 0;
12    ?>
13    $(document).ready(function() {
14        $("#accordion").accordion({active:<?php echo $index; ?>, heightStyle:
15            "content"});
16    });
17 </script>
18 <div class="header">
19     &nbsp; &nbsp; &nbsp;
20     </img>
22     &nbsp; &nbsp; &nbsp;
23     <font class="title">Online Student Evaluation of Teachers</font>
24     <div class="subtitle">
25         University of the Philippines Manila</div>
26     <div class="loginbar">Welcome <?php echo $first_name; ?>. <a href="<?php echo
27       base_url('/index.php/login/logout'); ?>">Logout</a> &nbsp;&nbsp;&nbsp;</div>
28 </div>
29 <div class="left">
30     <div id="accordion">
31         <?php
32         if(isset($isAdmin))
33         {
34             <div class="module-div2">
35                 <a href="" class="no-style"><h1>Administration</h1></a>
36             </div>
37
38             <div>
39                 <div class="module-div" class="current">
40                     <h1>Account Management</h1>
41                     <a href="'.base_url('/index.php/admin/account').'"
42                       <?php if(strpos($_SERVER["PHP_SELF"],"admin/account")) echo
43                         'class="current"'; echo'> View User Accounts</a>
44                     <a href="'.base_url('/index.php/admin/studentaccountmanagement').'"
45                       <?php if(strpos($_SERVER["PHP_SELF"],"admin/studentaccountmanagement")
46                         && !strpos($_SERVER["PHP_SELF"],"admin/studentaccountmanagement
47                           /changepassword")) echo 'class="current"';
48                       echo'>Generate Student Accounts</a>
49                     <a href="'.base_url('/index.php/admin/studentaccountmanagement/
50                       changepassword').'" <?php if(strpos($_SERVER["PHP_SELF"],
51                         "admin/studentaccountmanagement
52                           /changepassword")) echo 'class="current"';
53                       echo ' ">Change Student\'s Password</a>
54                     <a href="'.base_url('/index.php/admin/audittrail').'"
55                       <?php if(strpos($_SERVER["PHP_SELF"],"audittrail")) echo
56                         'class="current"';
57                       echo ' ">Audit Trail</a>
58                 </div>
59
60                 <div class="module-div">
61                     <h1>Class Management</h1>
62                     <a href="'.base_url('/index.php/admin/classmanagement').'"
63                       <?php if(strpos($_SERVER["PHP_SELF"],"admin/classmanagement")) echo
64                         'class="current"'; echo'>Download Classes</a>
65                 </div>
66             </div>

```

```

57     <div class="module-div">
58         <h1>SET </h1>
59         <a href="'.base_url('/index.php/admin/SET').'"
           if(strpos($_SERVER["PHP_SELF"],"admin/SET")) echo
           'class="current"'; echo' "> Setup</a>
60         <a href="'.base_url('/index.php/admin/setinstrumentmanagement').'"
           if(strpos($_SERVER["PHP_SELF"],"admin/setinstrument")) echo
           'class="current"'; echo' "> SET Instrument Management</a>
61     </div>
62 </div>';
63 }
64 if(isset($isClerk))
65 {
66     echo '
67     <div class="module-div2">
68         <a href="" class="no-style"><h1>Clerk Utilities</h1></a>
69     </div>
70
71     <div>
72         <div class="module-div">
73             <h1>Class Management</h1>
74             <a href="'.base_url('/index.php/clerk/classmanagement').'"
75                 if(strpos($_SERVER["PHP_SELF"],"clerk/classmanagement")
76                 && !strpos($_SERVER["PHP_SELF"],"clerk/classmanagement/view"))
77                 echo 'class="current"'; echo' ">Classes-Faculty Selection</a>
78             <a href="'.base_url('/index.php/clerk/studentaccount').'"
79                 if(strpos($_SERVER["PHP_SELF"],"clerk/studentaccount")) echo
                 'class="current"'; echo' ">List of Students</a>
                 <a href="'.base_url('/index.php/clerk/setinstrumentassignment').'"
                 if(strpos($_SERVER["PHP_SELF"],"clerk/setinstrumentassignment")
                 && strpos($_SERVER["PHP_SELF"],"set")) echo 'class="current"';
                 echo' ">SET Instrument Assignment</a>;
80             echo ' </div>';
81
82             if($SET['accounts_generated'])
83             {
84                 echo '
85                 <div class="module-div">
86                     <h1>Evaluation Management</h1>
87                     <a href =
88                         "'.base_url('/index.php/clerk/evaluationmanagement/open').'"
89                         if(strpos($_SERVER["PHP_SELF"], "open") ||
90                         strpos($_SERVER["PHP_SELF"],"close")) echo 'class="current"';
91                         echo' ">Evaluation Mode</a>
92                     <a href =
93                         "'.base_url('/index.php/clerk/evaluationmanagement/status').'"
94                         if(strpos($_SERVER["PHP_SELF"], "status")) echo
95                         'class="current"'; echo' ">Evaluation Status</a>
96                 </div>
97                 ';
98             }
99             echo '
100             <div class="module-div">
101                 <h1>Report Management </h1>
102                 <a href = "'.base_url('/index.php/clerk/reportmanagement/
103                     reportperclass').'"
104                     if(strpos($_SERVER["PHP_SELF"],
105                     "reportperclass")) echo 'class="current"'; echo' ">Class
106                     Detailed Report</a>
107                 <a href="'.base_url('/index.php/clerk/reportmanagement/
108                     facultysummarizedreport').'"
109                     if(strpos($_SERVER["PHP_SELF"],"faculty")) echo
                     'class="current"'; echo' ">Faculty Summarized Report</a>
110             </div>
111         </div>';
112     }
113     if(isset($isAnalyst))
114     {
115         echo '
116         <div class="module-div2">
117             <a class="no-style" href=""><h1>Info Security Analyst</h1></a>
118         </div>
119         <div>
120             <div class="module-div">

```



```

110         <h1>Export Data</h1>
111         <a href="'.base_url('/index.php/infoanalyst/exportdata').'"';
            if(strpos($_SERVER["PHP_SELF"],"export")) echo 'class="current"';
            echo'>Archive Tables</a>
112     </div>
113 </div>
114 ';
115 }
116 ?>
117 <div class="module-div2">
118     <a class="no-style" href=""><h1>Account Management</h1></a>
119 </div>
120 <div>
121     <div class="module-div">
122         <a href="<?=base_url('/index.php/changepassword')?>" <?php
            if(strpos($_SERVER["PHP_SELF"],
123                 "changepassword")) echo 'class="current"'?>> Change password</a>
124         <a href="<?=base_url('/index.php/login/logout')?>">Logout</a>
125     </div>
126 </div>
127 </div>
128 </div>

```

Listing 37: header.php

```

1 <?php
2 header("Cache-Control: no-store, no-cache, must-revalidate"); // HTTP/1.1
3 header("Pragma: no-cache"); // HTTP/1.0
4
5 $url = "http" . (($SERVER['SERVER_PORT']==443) ? "s://" : "://") .
        $_SERVER['HTTP_HOST'] . $_SERVER['REQUEST_URI'];
6 if($url == base_url('index.php/login') ||
7    $url == base_url('') ||
8    $url == base_url('index.php/changepassword'))
9 {
10     if(substr($url, 0, 4) == 'http')
11     {
12         $url = str_replace('http', 'https', $url);
13         header('location:'.$url);
14     }
15 }
16 ?>

```

Listing 38: check.php

```

1 <?php include('check.php'); ?>
2 <header>
3     <title>OSET 4.0</title>
4     <link href='<?=str_replace('http', 'https', base_url('css/style.css'))?>'
        rel='stylesheet' type='text/css'>
5 </header>
6
7 <body>
8 <div class="wrapper">
9     <?php include('header.php'); ?>
10
11     <div class = "right">
12
13         <h2> Change Password </h2>
14
15         <div id="formcss">
16             <span class="error_msg"><?php if(isset($msg)) {if($msg == "Password
                changed.") echo "<font color='#019901'>".$msg."<br/></font>"; else
                echo $msg."<br/>"; }?></span><br/>
17             <?php echo str_replace('http', 'https',
                form_open('changepassword/submit', array('onSubmit'=>true))); ?>
18         <table>
19             <tr>

```

```

20     <td>Old password : <font color="red">*</font></td>
21     <td class="element"><input type="password" name="password"
22         id="password" value="" required></td>
23
24     <tr>
25     <td>New password : <font color="red">*</font></td>
26     <td class="element"><input type="password" name="password1"
27         id="password" value="" required></td>
28
29     <tr>
30     <td>Confirm password : <font color="red">*</font></td>
31     <td class="element"><input type="password" name="password2"
32         id="password2" value="" required></td>
33
34     <tr>
35     <td><td><br/><input type="submit" value="Save"><a href="<?php echo
36         base_url('index.php/home'); ?>"><input type="button"
37         value="Cancel"></input></a>
38
39     </tr>
40 </table>
41 <?php echo form_close();?>
42 </div>
43 </div>
44 </div>
45 </body>

```

Listing 39: change_password.php

```

1 <?php include('check.php');?>
2
3 <header>
4     <title>OSET 4.0</title>
5     <link href='<?base_url('css/style.css')?>' rel='stylesheet' type='text/css'>
6
7     <script>
8         function warning(){
9             return confirm('Are you sure you want to delete this record?');
10        }
11    </script>
12
13 </header>
14
15 <body>
16     <div class="wrapper">
17         <?php include('header.php'); ?>
18
19         <div class = "right">
20
21             <h2> User Accounts </h2>
22
23             <div id="formcss">
24                 <?php echo form_open('admin/account/search', array('onSubmit'=>true));
25                 if (!isset($keyword)) $keyword = "";?>
26                 <table>
27                     <tr>
28                         <td id="Name-label">Search User:</td>
29                         <td class="element"><input type="text" name="keyword" value="<?php echo
30                             $keyword;?>"></td>
31                         <td class="element"><input type="submit"
32                             name="Search" id="Search" value="Search" Name="Searchbutton"></td>
33                     </tr>
34                 </table>
35             </div>
36
37             <br/><a href="<?base_url('/index.php/admin/account/add')?>"> + Add new
38             user</a><br/><br/>

```

```

37     <?php
38         if(isset($_SESSION['msg'])) {echo "<center><font
           color=green>".$_SESSION['msg']. "</font><br/><br/></center>";
           unset($_SESSION['msg']);}
39
40         if(count($records['username']))
41         {
42             echo'
43             <table class="records">
44                 <tr>
45                     <th>Last Name</th>
46                     <th>First Name</th>
47                     <th>Username</th>
48                     <th>User Role</th>
49                     <th>College</th>
50                     <th></th>
51                 </tr>;
52
53                 for($i=0; $i<count($records['username']); $i++) {
54                     echo "<tr>
55                         <td>".$_records['last_name'][$i]. "</td>
56                         <td>".$_records['first_name'][$i]. "</td>
57                         <td>".$_records['username'][$i]. "</td>
58                         <td>".$_records['user_type'][$i]. "</td>
59                         <td>".$_records['college_code'][$i]. "</td>
60                         <td><a href='".str_replace('http', 'https',
61                             base_url('index.php/admin/account/edit/'.
62                                 $records['username'][$i]))."'> Edit &nbsp; </a>";
63                         if($username != $records['username'][$i])
64                             echo "<a href = '".base_url('index.php/admin/account/delete/'.
65                                 $records['username'][$i])."' onclick='return warning();'>
66                             Delete </a>";
67
68                         echo "
69                         </td>
70                     </tr>";
71                 }
72             echo "</table>";
73         }
74         else
75             echo "No record found.<br/>";
76     ?>
77
78     <?php
79         if($keyword)
80             echo '<br/><a href="account">Back</a>';
81
82     ?>
83 </div>
84 </div>
85 </body>

```

Listing 40: admin/account_list.php

```

1 <?php include('check.php');?>
2
3 <header>
4     <title>OSET 4.0</title>
5     <link href='<?=base_url('css/style.css')?' rel='stylesheet' type='text/css'>
6 </header>
7
8 <body>
9     <div class="wrapper">
10         <?php include('header.php'); ?>
11
12         <div class = "right">
13
14             <h2> Add New SET Instrument </h2>
15
16             <div id="formcss">

```

```

17     <span class="error_msg"><?php if(isset($error_msg)) echo
18         $error_msg."<br/>"; ?></span><br/>
19     <?php echo form_open_multipart('admin/setinstrumentmanagement/submit',
20         array('onSubmit'=>true)); ?>
21     <table>
22     <tr>
23     <td width="200px">SET Instrument ID : <font color="red">*</font></td>
24     <td class="element"><input type="text" name="id" value="<?php echo
25         $set_id; ?>" readonly=""></td>
26     </tr>
27     <tr>
28     <td>SET Name : <font color="red">*</font></td>
29     <td class="element"><input type="text" name="name" value="<?php
30         if(isset($SET_name)) echo $SET_name; ?>" required></td>
31     </tr>
32     <tr>
33     <td>Zip file: <font color="red">*</font></td>
34     <td><input type="file" name="zipFile" size="20" /></td>
35     </tr>
36     <tr>
37     <td><br/><input type="submit" value="Add"></td><a href="<?php echo
38         base_url('index.php/admin/setinstrumentmanagement'); ?>"><input
39         type="button" value="Cancel"></a>
40     </tr>
41     </table>
42     <?php form_close(); ?>
43 </div>
44 </div>
45 </div>
46 </body>

```

Listing 41: admin/add_set_instrument.php

```

1 <?php include('check.php'); ?>
2
3 <header>
4 <title>OSET 4.0</title>
5 <link href="<?=str_replace('http', 'https', base_url('css/style.css')) ?>"
6     rel='stylesheet' type='text/css'>
7 <script>
8     function show(div, id)
9     {
10         var divs = document.getElementsByName(div);
11
12         if(document.getElementById(id).checked)
13         {
14             for(var i = 0; i < divs.length; i++)
15                 divs[i].style.display="block";
16         }
17         else
18         {
19             for(var i = 0; i < divs.length; i++)
20                 divs[i].style.display="none";
21         }
22     }
23 </script>
24 </header>
25 <body>
26 <div class="wrapper">
27 <?php include('header.php'); ?>
28
29 <div class = "right">
30

```

```

31 <h2> Add New User </h2>
32
33 <div id="formcss">
34 <span class="error_msg"><?php if(isset($error_msg)) echo
    $error_msg."<br/>"; ?><br/></span>
35 <?php echo str_replace('http', 'https', form_open('admin/account/submit',
    array('onSubmit'=>true))); ?>
36 <table>
37 <tr>
38 <td>Username : <font color="red">*</font></td>
39 <td class="element"><input type="text" name="username" id="username"
    value="<?php if(isset($user['username'])) echo $user['username'];
    ?>" required></td>
40 </tr>
41
42 <tr>
43 <td>First name : <font color="red">*</font></td>
44 <td class="element"><input type="text" name="first_name"
    id="first_name" value="<?php if(isset($user['first_name'])) echo
    $user['first_name']; ?>" required></td></tr>
45
46 <tr>
47 <td>Last name : <font color="red">*</font></td>
48 <td class="element"><input type="text" name="last_name" id="last_name"
    value="<?php if(isset($user['last_name'])) echo $user['last_name'];
    ?>" required></td>
49 </tr>
50
51 <tr>
52 <td>User role : <font color="red">*</font></td>
53 <td class="element">
54 <?php
55     $user_type = 0;
56     if(isset($user['user_type']))
57         $user_type = $user['user_type'];
58     ?>
59 <br/>
60 <input type="checkbox" value=1 name="isAdmin" <?php
    if(strpos($user_type, '1') !== false) echo
    "checked";?>>administrator<br/>
61 <input type="checkbox" value=2 name="isClerk" id="isClerk" <?php
    if(strpos($user_type, '2') !== false) echo "checked";?>
    onClick="show('collegeDiv', 'isClerk');">clerk<br/>
62 <input type="checkbox" value=3 name="isAnalyst" <?php
    if(strpos($user_type, '3') !== false) echo
    "checked";?>>information security analyst
63 <br/><br/>
64 </tr>
65
66 <tr>
67 <td><div name="collegeDiv" <?php if(strpos($user_type, '2') === false
    || $user_type == 0) echo 'style="display:none;";?> >College :
    <font color="red">*</font></div></td>
68 <td class="element">
69 <div name="collegeDiv" <?php if(strpos($user_type, '2') === false
    || $user_type == 0) echo 'style="display:none;";?>
70 <?php if(!isset($user['college_code'])) $user['college_code'] =
    "CAMP";?>
71 <select name="college_code" id="college_code">
72 <?php
73     for ($i = 0; $i < count($colleges['college_code']); $i++)
74     {
75         echo '<option value="' . $colleges['college_code'][$i] . '"';
76         if($user['college_code'] == $colleges['college_code'][$i])
77             echo " selected";
78         echo '>' . $colleges['college_name'][$i] . '</option>';
79     }
80     ?>
81 </select>
82 </div>
83 </td>
84 </tr>
85

```

```

86         <tr>
87         <td>Password : <font color="red">*</font></td>
88         <td class="element"><input type="password" name="password"
            id="password" value="" required></td>
89         </tr>
90
91         <tr>
92         <td>Confirm password : <font color="red">*</font></td>
93         <td class="element"><input type="password" name="password2"
            id="password2" value="" required></td>
94         </tr>
95
96         <tr>
97         <td><td><br/><input type="submit" value="Add"><a href="<?php echo
            base_url('index.php/admin/account')?>"><input type="button"
            value="Cancel"></a>
98         </td>
99         </table>
100         <?php echo form_close();?>
101     </div>
102 </div>
103 </div>
104 </body>

```

Listing 42: admin/add_user.php

```

1 <?php include('check.php');?>
2
3 <header>
4 <title>OSET 4.0</title>
5 <link href='<?=base_url('css/style.css')?>' rel='stylesheet' type='text/css'>
6 <script>
7     function warning(){
8         return confirm('Are you sure you want to delete selected record(s)?');
9     }
10 </script>
11
12 </header>
13
14 <body>
15 <div class="wrapper">
16 <?php include('header.php'); ?>
17 <script>
18     $(function() {
19         $("#from").datepicker({
20             dateFormat: 'yy-mm-dd',
21             showAnim: 'slideDown',
22             changeYear: true,
23             changeMonth: true,
24             onClose: function( selectedDate ) {
25                 $( "#to" ).datepicker( "option", "minDate", selectedDate );
26             }
27         });
28         $("#to").datepicker({
29             dateFormat: 'yy-mm-dd',
30             showAnim: 'slideDown',
31             changeYear: true,
32             changeMonth: true,
33             onClose: function( selectedDate ) {
34                 $( "#from" ).datepicker( "option", "maxDate", selectedDate );
35             }
36         });
37         $("#checkAll").click(function(){
38             $('input:checkbox').not(this).prop('checked', this.checked);
39         });
40     });
41 </script>
42 <div class = "right">
43
44 <h2> Audit Trail</h2>

```

```

45
46 <div id="formcss">
47   <?php echo form_open('admin/audittrail/search', array('onSubmit'=>true)); ?>
48   <table>
49     <tr>
50       <td>Search:</td>
51       <td><input type="text" name="keyword" value="<?php
52         if(isset($search['keyword'])) echo $search['keyword'];?>"></td>
53       <td>&nbsp; &nbsp; From <input id="from" class="date_picker" name="date1"
54         value="<?php if(isset($search['date1'])) echo
55           $search['date1'];?>"></input></td>
56       <td>&nbsp; &nbsp; To <input id="to" class="date_picker" name="date2"
57         value="<?php if(isset($search['date2'])) echo $search['date2'];?>"
58         ></input></td>
59       <td>&nbsp; &nbsp; <input type="submit" name="Search" value="Search"></td>
60     </tr>
61   </table>
62 </form>
63 </div>
64 <br/>
65 <?php if(isset($_SESSION['msg'])) echo ' <div align="center"
66   style="color:green">'. $_SESSION['msg'].' </div><br/>';
67   unset($_SESSION['msg']); ?>
68 <?php
69   if($audit_trail)
70     {
71       echo'
72       <form action="'.base_url('index.php/admin/audittrail/submit').' "
73         method="POST" onsubmit="return warning();">
74       <table class="records">
75         <tr>
76           <th>Name</th>
77           <th>Username</th>
78           <th>Action</th>
79           <th>Date/Time</th>
80           <th align="left"><input type="checkbox" id="checkAll"></input></th>
81         </tr>';
82
83       foreach ($audit_trail as $record) {
84         echo "<tr>
85           <td>".$record->name."</td>
86           <td>".$record->username."</td>
87           <td>".$record->action."</td>
88           <td>".$record->date_time."</td>
89           <td><input type='checkbox'
90             name=' ".$record->audit_id."'></input></td>
91         </tr>";
92       }
93       echo "</table>
94       <br/>
95       <input type='submit' value='Delete'></input>
96     </form>
97     ";
98   }
99   else
100     echo "No record found.<br/><br/>";
101   ?>
102 <?php
103   if(isset($search['keyword']))
104     echo '<a href="'.base_url('index.php/admin/audittrail').'">Back</a>';
105   ?>
106 </div>
107 </div>
108 </body>

```

Listing 43: admin/audit_trail.php

```

1 <?php
2   if(strpos($_SERVER["PHP_SELF"],"index.php/admin") && !isset($isAdmin))
3     header('location:'.base_url('index.php/home'));
4   elseif(strpos($_SERVER["PHP_SELF"],"index.php/clerk") && !isset($isClerk))
5     header('location:'.base_url('index.php/home'));
6   elseif(strpos($_SERVER["PHP_SELF"],"index.php/infoanalyst") &&
7     !isset($isAnalyst))
8     header('location:'.base_url('index.php/home'));
9   elseif(strpos($_SERVER["PHP_SELF"],"index.php/student"))
10    header('location:'.base_url('index.php/home'));
11
12 $url = "http" . (($SERVER['SERVER_PORT']==443) ? "s://" : "://") .
13   $_SERVER['HTTP_HOST'] . $_SERVER['PHP_SELF'];
14 if($url == base_url('index.php/admin/studentaccountmanagement/changepassword') ||
15   $url == base_url('index.php/admin/account/add') ||
16   ($url == base_url('index.php/admin/studentaccountmanagement') &&
17     !isset('accounts_generated')))
18 {
19   if(substr($url, 0, 4) == 'http')
20   {
21     $url = str_replace('http', 'https', $url);
22     header('location:'. $url);
23   }
24 }
25 ?>

```

Listing 44: admin/check.php

```

1 <?php include('check.php');?>
2
3 <header>
4   <title>OSET 4.0</title>
5   <link href='<?=base_url('css/style.css')?' rel='stylesheet' type='text/css'>
6
7   <script>
8     function warning(){
9       return confirm('Are you sure you want to delete this record?');
10    }
11  </script>
12
13 </header>
14
15 <body>
16   <div class="wrapper">
17     <?php include('header.php'); ?>
18
19     <div class = "right">
20
21     <h2> Download Classes </h2>
22
23     <?php
24     if(!isset('accounts_generated'))
25     {
26       echo
27       ' <table class="records">
28         <tr>
29           <th>College Name</th>
30           <th>College Code</th>
31           <th>Classes Downloaded</th>
32         </tr>
33         ' ;
34
35       for($i=0; $i<count($records['college_code']); $i++) {
36         echo " <tr>
37           <td>". $records['college_name'][$i]. "</td>
38           <td>". $records['college_code'][$i]. "</td>
39           <td>";
40         if($records['downloaded'][$i])
41           echo "Classes downloaded. <a

```



```

        href='classmanagement/downloadClasses/'.
        $records['college_code'][$i]."'>Redownload classes</a>";
42     else
43     echo "<a href='classmanagement/downloadClasses/'.
        $records['college_code'][$i]."'>Download classes</a>";
44     echo "</td>";
45     </tr>";
46     }
47     echo '</table>';
48     }
49     else {
50     echo "Downloading of classes has been disabled because students accounts
        have already been generated.";
51     }
52     ?>
53
54 </div>
55 </div>
56 </body>

```

Listing 45: admin/download_classes.php

```

1 <?php include('check.php');?>
2
3 <header>
4 <title>OSET 4.0</title>
5 <link href='<?=base_url('css/style.css')?>' rel='stylesheet' type='text/css'>
6 </header>
7
8 <body>
9 <div class="wrapper">
10 <?php include('header.php'); ?>
11
12 <div class = "right">
13
14 <h2> Edit SET Instrument </h2>
15
16 <div id="formcss">
17 <span class="error_msg"><?php if(isset($error_msg)) echo $error_msg;
    ?></span><br/><br/>
18 <?php echo form_open('admin/setinstrumentmanagement/update/'.
    $set->set_instrument_id, array('onSubmit'=>true)); ?>
19 <table>
20 <tr>
21 <td>SET Name : <font color="red">*</font></td>
22 <td class="element"><input type="text" name="name" value="<?php echo
    $set->name;?>" required></td>
23 </tr>
24
25 <tr>
26 <td></td>
27 <td><input type="submit" value="Save"></input><a href="<?php echo
    base_url('index.php/admin/setinstrumentmanagement');?>"><input
    type="button" value="Cancel"></input></a>
28 </td>
29 </tr>
30 </table>
31 <?php form_close();?>
32 </div>
33 </div>
34 </div>
35 </body>

```

Listing 46: admin/edit_set_instrument.php

```

1 <?php include('check.php');?>
2
3 <header>

```

```

4 <title>OSET 4.0</title>
5 <link href='<?=str_replace('http', 'https', base_url('css/style.css'))?>'
  rel='stylesheet' type='text/css'>
6 <script>
7     function show(div, id)
8     {
9         var divs = document.getElementsByName(div);
10
11         if(document.getElementById(id).checked)
12         {
13             for(var i = 0; i < divs.length; i++)
14                 divs[i].style.display="block";
15         }
16         else
17         {
18             for(var i = 0; i < divs.length; i++)
19                 divs[i].style.display="none";
20         }
21     }
22 </script>
23 </header>
24
25 <body onLoad="show('passwordDiv', 'changePassword'),
  show('collegeDiv', 'isClerk');">
26 <div class="wrapper">
27 <?php include('header.php'); ?>
28
29 <div class = "right">
30
31 <h2> Edit User </h2>
32
33 <div id="formcss">
34 <span class="error_msg"><?php if(isset($error_msg)) echo
  $error_msg."<br/>"; ?><br/></span>
35 <?php
36 if(!isset($error_msg))
37 {
38     $user['first_name'] = $info->first_name;
39     $user['last_name'] = $info->last_name;
40     $user['user_type'] = $info->user_type;
41     $user['username'] = $info->username;
42     $user['user_type'] = $info->user_type;
43     $user['college_code'] = $info->college_code;
44 }
45 echo str_replace('http', 'https',
  form_open('admin/account/update/'. $user['username'],
  array('onSubmit'=>true)); ?>
46 <table>
47 <tr>
48 <td>Username :</td>
49 <td class="element"><input type="text" name="username" id="username"
  value="<?php echo $user['username'];?>" disabled required</td>
50 </tr>
51
52 <tr>
53 <td>First name : <font color="red">*</font></td>
54 <td class="element"><input type="text" name="first_name"
  id="first_name" value="<?php echo $user['first_name'];?>"
  required</td></tr>
55
56 <tr>
57 <td>Last name : <font color="red">*</font></td>
58 <td class="element"><input type="text" name="last_name" id="last_name"
  value="<?php echo $user['last_name'];?>" required</td>
59 </tr>
60
61 <tr>
62 <td>User role : <font color="red">*</font></td>
63 <td class="element">
64 <br/>
65 <input type="checkbox" value=1 name="isAdmin" <?php
  if(strpos($user['user_type'], '1') !== false) echo
  "checked";?>>administrator<br/>

```

```

66         <input type="checkbox" value=2 name="isClerk" id="isClerk" <?php
           if(strpos($user['user_type'], '2') !== false) echo "checked";?>
           onClick="show('collegeDiv','isClerk')">clerk<br/>
67         <input type="checkbox" value=3 name="isAnalyst" <?php
           if(strpos($user['user_type'], '3') !== false) echo
           "checked";?>>information security analyst
68         <br/><br/>
69     </tr>
70
71     <tr>
72         <td><div name="collegeDiv" style="display:none;">College : <font
           color="red">*</font></div><br/></td>
73         <td class="element">
74             <div name="collegeDiv" style="display:none;">
75                 <select name="college_code" id="college_code">
76                     <?php
77                         for ($i = 0; $i < count($colleges['college_code']); $i++)
78                         {
79                             echo '<option value="'. $colleges['college_code'][$i].' "';
80                             if($user['college_code'] == $colleges['college_code'][$i])
81                                 echo " selected";
82                             echo '>' . $colleges['college_name'][$i].'</option>';
83                         }
84                     ?>
85                 </select>
86             </div>
87             <br/>
88         </td>
89     </tr>
90
91     <tr>
92         <td>Change password : <font color="red">*</font>
93         <td><input type="radio" id="changePassword" name="changePassword"
           onClick="show('passwordDiv', 'changePassword');" value="yes"
           <?php if(isset($error_msg)) echo "checked"?>> Yes
94         <input type="radio" name="changePassword"
           onClick="show('passwordDiv', 'changePassword');" value="no"
           <?php if(!isset($error_msg)) echo "checked"?>> No
95     </tr>
96
97     <tr>
98         <td><div name="passwordDiv" style="display:none;">New password :
           <font color="red">*</font></div>
99         <td><div name="passwordDiv" style="display:none;"><input
           type="password" name="password"></div>
100     </tr>
101     <tr>
102         <td><div name="passwordDiv" style="display:none;">Confirm password :
           <font color="red">*</font></div>
103         <td><div name="passwordDiv" style="display:none;"><input
           type="password" name="password2"></div>
104     </tr>
105     <tr>
106         <td><td><br/><input type="submit" value="Save"><a href="<?php echo
           base_url("/index.php/admin/account") ?>"><input type="button"
           value="Cancel"></a>
107     </td>
108 </table>
109 <?php echo form_close();?>
110 </div>
111 </div>
112 </div>
113 </body>

```

Listing 47: admin/edit_user.php

```

1 <?php include('check.php'); ?>
2
3 <header>
4 <title>OSET 4.0</title>

```

```

5     <link href='<?=base_url('css/style.css')?>' rel='stylesheet' type='text/css'>
6 </header>
7
8 <body>
9     <div class="wrapper">
10        <?php include('header.php'); ?>
11
12        <div class = "right">
13            <h2>Database Error</h2>
14
15            The system cannot connect to crs database.
16
17            <br/><br/>
18            <a href="<?php echo $_SERVER['HTTP_REFERER']; ?>">Back</a>
19
20        </div>
21    </div>
22 </body>

```

Listing 48: admin/error_database.php

```

1 <meta http-equiv='Content-Type' content='text/html; charset=UTF-8' />
2 <script src="<?php if(strpos($_SERVER["PHP_SELF"],"changepassword")) echo
   str_replace('http', 'https', base_url('js/jquery-1.9.1.js')); else echo
   base_url('js/jquery-1.9.1.js');?>"></script>
3 <script src="<?php if(strpos($_SERVER["PHP_SELF"],"changepassword")) echo
   str_replace('http', 'https', base_url('js/jquery-ui.js')); else echo
   base_url('js/jquery-ui.js');?>"></script>
4 <script>
5     <?php
6         $index = 0;
7         if(isset($isAdmin)) $index++;
8         if(isset($isClerk)) $index++;
9         if(isset($isAnalyst)) $index++;
10        if(strpos($_SERVER["PHP_SELF"],"changepassword") === false)
11            $index = 0;
12    ?>
13    $(document).ready(function() {
14        $('#accordion').accordion({active:<?php echo $index; ?>, heightStyle:
15            "content"});
16    });
17 </script>
18 <div class="header">
19     &nbsp; &nbsp; &nbsp;
20     </img>
21     &nbsp; &nbsp; &nbsp;
22     <font class="title">Online Student Evaluation of Teachers</font>
23     <div class="subtitle">
24         University of the Philippines Manila</div>
25     <div class="loginbar">Welcome <?php echo $first_name; ?>. <a href="<?php echo
       base_url('/index.php/login/logout'); ?>">Logout</a> &nbsp; &nbsp;</div>
26 </div>
27
28 <div class="left">
29     <div id="accordion">
30         <?php
31             if(isset($isAdmin))
32             {
33                 echo '
34                 <div class="module-div2">
35                     <a href="" class="no-style"><h1>Administration</h1></a>
36                 </div>
37
38                 <div>
39                     <div class="module-div" class="current">
40                         <h1>Account Management</h1>
41                         <a href="'.base_url('/index.php/admin/account')."';
                           if(strpos($_SERVER["PHP_SELF"],"admin/account")) echo

```

```

42         'class="current"'; echo'> View User Accounts</a>
43     <a href="'.base_url('/index.php/admin/studentaccountmanagement').'"
        if(strpos($_SERVER["PHP_SELF"],"admin/studentaccountmanagement")
        && !strpos($_SERVER["PHP_SELF"],"admin/studentaccountmanagement
44         /changepassword")) echo 'class="current"';
        echo'">Generate Student Accounts</a>
45     <a href="'.base_url('/index.php/admin/studentaccountmanagement/
        changepassword').'"'; if(strpos($_SERVER["PHP_SELF"],
46         "admin/studentaccountmanagement
        /changepassword")) echo 'class="current"';
47     echo '">Change Student\'s Password</a>
48     <a href="'.base_url('/index.php/admin/audittrail').'"';
        if(strpos($_SERVER["PHP_SELF"],"audittrail")) echo
49         'class="current"';
        echo '">Audit Trail</a>
50 </div>
51
52 <div class="module-div">
53     <h1>Class Management</h1>
54     <a href="'.base_url('/index.php/admin/classmanagement').'"';
        if(strpos($_SERVER["PHP_SELF"],"admin/classmanagement")) echo
55         'class="current"'; echo'>Download Classes</a>
56 </div>
57
58 <div class="module-div">
59     <h1>SET </h1>
60     <a href="'.base_url('/index.php/admin/SET').'"';
        if(strpos($_SERVER["PHP_SELF"],"admin/SET")) echo
        'class="current"'; echo'"> Setup</a>
61     <a href="'.base_url('/index.php/admin/setinstrumentmanagement').'"';
        if(strpos($_SERVER["PHP_SELF"],"admin/setinstrument")) echo
        'class="current"'; echo'"> SET Instrument Management</a>
62 </div>
63 }
64 if(isset($isClerk))
65 {
66     echo '
67     <div class="module-div2">
68         <a href="" class="no-style"><h1>Clerk Utilities</h1></a>
69     </div>
70
71     <div>
72         <div class="module-div">
73             <h1>Class Management</h1>
74             <a href="'.base_url('/index.php/clerk/classmanagement').'"';
75             if(strpos($_SERVER["PHP_SELF"],"clerk/classmanagement")
76             && !strpos($_SERVER["PHP_SELF"],"clerk/classmanagement/view"))
77             echo 'class="current"'; echo '">Classes-Faculty Selection</a>
78             <a href="'.base_url('/index.php/clerk/studentaccount').'"';
                if(strpos($_SERVER["PHP_SELF"],"clerk/studentaccount")) echo
                'class="current"'; echo'">List of Students</a>
79             <a href="'.base_url('/index.php/clerk/setinstrumentassignment').'"';
                if(strpos($_SERVER["PHP_SELF"],"clerk/setinstrumentassignment")
                && strpos($_SERVER["PHP_SELF"],"set")) echo 'class="current"';
                echo '">SET Instrument Assignment</a>;
80         echo ' </div>';
81
82     if($SET['accounts_generated'])
83     {
84         echo '
85         <div class="module-div">
86             <h1>Evaluation Management</h1>
87             <a href =
                "'.base_url('/index.php/clerk/evaluationmanagement/open').'"';
                if(strpos($_SERVER["PHP_SELF"], "open") ||
                strpos($_SERVER["PHP_SELF"],"close")) echo 'class="current"';
                echo'">Evaluation Mode</a>
88             <a href =
                "'.base_url('/index.php/clerk/evaluationmanagement/status').'"';
                if(strpos($_SERVER["PHP_SELF"], "status")) echo
                'class="current"'; echo'">Evaluation Status</a>
89         </div>

```

```

90     ' ;
91     }
92     echo '
93     <div class="module-div">
94         <h1>Report Management </h1>
95         <a href = "'.base_url('/index.php/clerk/reportmanagement
96             /reportperclass') .'"'; if(strpos($_SERVER["PHP_SELF"],
97                 "reportperclass")) echo 'class="current"'; echo'>Class
98             Detailed Report</a>
99         <a href="'.base_url('/index.php/clerk/reportmanagement/
100             facultysummarizedreport') .'"';
101             if(strpos($_SERVER["PHP_SELF"], "faculty")) echo
102                 'class="current"'; echo'>Faculty Summarized Report</a>
103     </div>
104 </div>';
105 }
106 if(isset($isAnalyst))
107 {
108     echo '
109     <div class="module-div2">
110         <a class="no-style" href=""><h1>Info Security Analyst</h1></a>
111     </div>
112     <div>
113         <div class="module-div">
114             <h1>Export Data</h1>
115             <a href="'.base_url('/index.php/infoanalyst/exportdata') .'"';
116                 if(strpos($_SERVER["PHP_SELF"], "export")) echo 'class="current"';
117                 echo'>Archive Tables</a>
118         </div>
119     </div>
120     ' ;
121 }
122 ?>
123 <div class="module-div2">
124     <a class="no-style" href=""><h1>Account Management</h1></a>
125 </div>
126 <div>
127     <div class="module-div">
128         <a href="<?=base_url('/index.php/changepassword')?>" <?php
129             if(strpos($_SERVER["PHP_SELF"],
130                 "changepassword")) echo 'class="current"'?>> Change password</a>
131         <a href="<?=base_url('/index.php/login/logout')?>">Logout</a>
132     </div>
133 </div>
134 </div>
135 </div>

```

Listing 49: admin/header.php

```

1 <?php include('check.php');?>
2
3 <header>
4     <title>OSET 4.0</title>
5     <link href='<?=base_url('css/style.css')?>' rel='stylesheet' type='text/css'>
6     <script>
7         function warning(){
8             return confirm('Save SET setup?');
9         }
10    </script>
11 </header>
12
13 <body>
14 <div class="wrapper">
15 <?php include('header.php'); ?>
16
17 <div class = "right">
18
19     <h2>SET Setup</h2>
20
21     The SET is currently set for <span style="color:maroon"> <?php

```

```

        if(substr($SET['semester'], 4, 4) == 1) echo '1st'; else echo '2nd';?>
        Semester </span>
22    Academic Year <span style="color:maroon"> <?php echo substr($SET['semester'],
        0, 4).'-'; echo substr($SET['semester'], 0, 4)+1;?>.</span>
23
24    </br></br>
25    <?php echo form_open('admin/SET/submit', array('onSubmit'=>true)); ?>
26
27    <table>
28    <tr>
29        <td>Academic Year : <font color="red">*</font></td>
30        <td class="element">
31            <select name="academic_year" id="Academic_Year">
32                <?php
33                    $year = date("Y");
34                    for ($i = 4; $i >= 0; $i--)
35                    {
36                        $year1 = $year-$i;
37                        $year2 = $year-$i+1;
38                        echo '<option value="'. $year1.'"' ; if (substr($SET['semester'], 0, 4)
                        == $year1) echo "selected"; echo '>'. $year1.' -
                        '. $year2.'</option>';
39                    }
40                ?>
41            </select></td>
42    </tr>
43
44    <tr>
45        <td>Semester : <font color="red">*</font></td>
46        <td>
47            <input type="radio" name="semester" id="Semester-1" value="1" <?php
                if(substr($SET['semester'], 4, 4) == 1) echo
                'checked';?>>First</label><br /><label for="Semester-2">
48            <input type="radio" name="semester" id="Semester-2" value="2" <?php
                if(substr($SET['semester'], 4, 4) == 2) echo
                'checked';?>>Second</label></td>
49    </tr>
50
51    <tr>
52        <td><input type="submit" name="submit" id="submit" value="Save"
                User_ID="submitbutton" onClick="return warning();"></td>
53    </tr>
54    <tr>
55        <td colspan="2"><br/></r><i>Clicking save will delete all the records of
                the past SET setup.</i></td>
56    </tr>
57
58    </table>
59
60    <?php form_close(); ?>
61
62
63
64 </div>
65 </div>
66 </body>

```

Listing 50: admin/SET.php

```

1 <?php include('check.php');?>
2
3 <header>
4     <title>OSET 4.0</title>
5     <link href='<?==base_url('css/style.css')?>' rel='stylesheet' type='text/css'>
6 </header>
7
8 <body>
9     <div class="wrapper">
10        <?php include('header.php'); ?>
11

```

```

12 <div class = "right">
13
14 <h2> SET Instrument Management </h2>
15
16 <?php
17     if(isset($_SESSION['msg'])) {echo "<center><font
18         color=green>".$_SESSION['msg'].</font><br/><br/></center>";
19         unset($_SESSION['msg']);}
20
21     if(count($records['name']))
22     {
23         echo'
24         <table class="records">
25         <tr>
26             <th width="120px">SET Instrument ID</th>
27             <th>SET Instrument Name</th>
28             <th></th>
29             <th></th>
30             <th></th>
31         </tr>';
32
33         for ($i = 0; $i <count($records['name']); $i++) {
34             echo "<tr>
35                 <td align='center'>".$_records['set_instrument_id'][$i].</td>
36                 <td>".$_records['name'][$i].</td>
37                 <td><a href= '".base_url('index.php/admin/set/'.
38                     $records['controller_name'][$i].'/preview')>
39                     Preview</a></td>
40                 <td><a href= '".base_url('index.php/admin/
41                     setinstrumentmanagement/edit/'.
42                     $records['set_instrument_id'][$i])."'> Edit</a></td>";
43
44                 if($records['set_as_default'][$i])
45                     echo "<td>Currently default</td>";
46                 else
47                     echo "<td><a href=
48                         '".base_url('index.php/admin/setinstrumentmanagement
49                         /setasdefault/'.
50                         $records['set_instrument_id'][$i])."'>Set as
51                         default</a></td>";
52
53                 echo "</tr>";
54             }
55         echo '</table>';
56     }
57     else
58         echo "No SET instrument uploaded.";
59     ?>
60     <br/><br/><a href="setinstrumentmanagement/add"><input type="button"
61         value="Upload New SET Instrument" /></a>
62
63 </div>
64 </div>
65 </body>

```

Listing 51: admin/set_instrument.php

```

1 <?php include('check.php');?>
2
3 <header>
4 <title>OSET 4.0</title>
5 <link href='<?=str_replace('http', 'https', base_url('css/style.css'))?'>
6     rel='stylesheet' type='text/css'>
7 <script>
8     function show(div, id)
9     {
10         var divs = document.getElementsByName(div);
11         if(document.getElementById(id).checked)

```



```

12     {
13         for(var i = 0; i < divs.length; i++)
14             divs[i].style.display="block";
15     }
16     else
17     {
18         for(var i = 0; i < divs.length; i++)
19             divs[i].style.display="none";
20     }
21 }
22 </script>
23 </header>
24
25 <body>
26     <div class="wrapper">
27         <?php include('header.php'); ?>
28
29         <div class = "right">
30
31             <h2> Generate Student Accounts </h2>
32
33             <?php
34                 if(!$_SET['accounts_generated'])
35                 {
36                     echo "Before importing the classlist make sure that the college
37                         clerks have already selected all the classes that will undergo
38                         evaluation process.
39
40                         After the students' accounts have been generated, downloading and
41                         selection of classes will be disabled.<br/><br/><a
42                             href='studentaccountmanagement/download'>Generate student
43                             accounts</a>";
44                 }
45             }
46         </div>
47     </div>
48 </body>

```

Listing 52: admin/student_accounts.php

```

1 <?php include('check.php'); ?>
2
3 <header>
4     <title>OSET 4.0</title>
5     <link href='<?=str_replace('http', 'https', base_url('css/style.css'))?'>'
6         rel='stylesheet' type='text/css'>
7 </header>
8
9 <body>
10     <div class="wrapper">
11         <?php include('header.php'); ?>
12
13         <div class = "right">
14
15             <h2>Change Student's Password </h2>
16
17             <div id="formcss">
18                 <span class="error_msg"><?php if(isset($msg)) {if($msg == "Password
19                     changed.") echo "<font color='#019901'>".$msg."<br/></font>"; else
20                     echo $msg."<br/>"; }?><br/></span>
21                 <?php echo str_replace('http', 'https',
22                     form_open('admin/studentaccountmanagement/changepasswordsubmit',
23                         array('onSubmit'=>true))); ?>
24                 <table>
25                     <tr>

```

```

21     <td>Student Number: <font color="red">*</font></td>
22     <td class="element"><input type="text" name="student_number"
        value="<?php if (isset($student_number)) echo $student_number;?>"
        required></td>
23     </tr>
24
25     <tr>
26     <td>New password : </td>
27     <td class="element"><?php echo $password; ?> <input type="hidden"
        name="password" id="password" value="<?php echo $password; ?>"
        readOnly></td>
28     </tr>
29
30     <tr>
31     <td><td><br/><input type="submit" value="Save"><a href="<?php echo
        base_url('index.php/home'); ?>"><input type="button"
        value="Cancel"></input></a>
32
33     </tr>
34     </table>
35     <?php echo form_close();?>
36 </div>
37 </div>
38 </body>

```

Listing 53: admin/student_change_password.php

```

1 <?php include('check.php');?>
2
3 <header>
4     <title>OSET 4.0</title>
5     <link href='<?base_url('css/style.css')?>' rel='stylesheet' type='text/css'>
6 </header>
7
8 <body>
9     <div class="wrapper">
10    <span class="nostyle">
11    <?php include('header.php'); ?>
12    </span>
13
14    <script>
15        $(function() {
16            var instructors = <?php echo json_encode($faculty['name']); ?>;
17
18            $("#instructor").autocomplete({
19                source: instructors
20            });
21        });
22
23        function convertToCode()
24        {
25            document.getElementById('warning').style.display="none";
26            var name = document.getElementById('instructor').value;
27            var instructor_codes = <?php echo json_encode($faculty['instructor_code']);
                ?>;
28            var instructors = <?php echo json_encode($faculty['name']); ?>;
29
30            for (var i = 0; i<instructors.length; i++)
31            {
32                if(instructors[i] == name)
33                {
34                    document.getElementById('instructor').value = instructor_codes[i];
35                    return true;
36                }
37            }
38
39            document.getElementById('warning').style.display="block";
40            return false;
41        }
42    </script>

```

```

43
44 <link href='<?=base_url('css/autocomplete.css')?>' rel='stylesheet'
    type='text/css'>
45
46 <div class = "right">
47
48 <h2>Add Instructor <?php echo "(".$class['subject']." -
    ".$class['section'].""); ?></h2>
49
50 <form method="POST" action="<?php echo
    base_url('index.php/clerk/classmanagement/submit/' . $class["class_id"])?>"
    onSubmit='return convertToCode()'>
51
52 <table>
53 <tr>
54 <td colspan="2"><span id="warning" style="color:red; display:none;">This
    name is not a member of the faculty. Click <a href="<?php echo
    base_url("index.php/clerk/classmanagement/
55 addNewInstructor/" . $class['class_id'])?>">here</a> to add a new faculty
    member.</span><br/></td>
56 </tr>
57 <tr>
58 <td width="120px;">Instructor's name: <font color='red'>*</font>
59 <td>
60 <input name="instructor_code" size="30" type="text" id="instructor"
    required></input>
61 </td>
62 </tr>
63 <tr>
64 <td></td>
65 <td><input type='submit' value="Add"><a href="<?php echo
    base_url('index.php/clerk/classmanagement/edit/' . $class["class_id"]);
    ?>"><input type="button" value="Cancel"></a> </td>
66 </tr>
67 </table>
68
69 </form>
70
71 </div>
72 </div>
73 </body>

```

Listing 54: clerk/add_instructor.php

```

1 <?php include('check.php');?>
2
3 <header>
4 <title>OSET 4.0</title>
5 <link href='<?=base_url('css/style.css')?>' rel='stylesheet' type='text/css'>
6 </header>
7
8 <body>
9 <div class="wrapper">
10 <?php include('header.php'); ?>
11 <script>
12 function checkCode()
13 {
14 document.getElementById('warning').style.display="none";
15 var code = document.getElementById('instructor').value.toUpperCase();
16 var instructor_codes = <?php echo
    json_encode($faculty['instructor_code']); ?>;
17
18 for (var i = 0; i<instructor_codes.length; i++)
19 {
20 if(instructor_codes[i] == code)
21 {
22 document.getElementById('warning').style.display="block";
23 return false;
24 }
25 }

```

```

26         document.getElementById('instructor').value = code;
27         return true;
28     }
29 }
30 </script>
31
32 <div class = "right">
33
34 <h2>Add New Faculty Member </h2>
35
36 <form method="POST" action= "<?php echo base_url(
37     'index.php/clerk/classmanagement/addNewInstructorSubmit/'.
38     $class['class_id']);?>" onSubmit='return checkCode()?'>
39
40 <table>
41     <tr>
42         <td colspan="2"><span id="warning" style="color:red;
43             display:none;">Instructor Code already exists.</span><br/></td>
44     </tr>
45     <tr>
46         <td>Instructor's name: <font color='red'>*</font>
47         <td>
48             <input name="name" size="30" type="text" required></input>
49     </td>
50 </tr>
51     <tr>
52         <td>Instructor's code: <font color='red'>*</font>
53         <td>
54             <input name="code" id="instructor" size="30" type="text"
55             required></input>
56     </td>
57 </tr>
58     <tr>
59         <td><input name="addToClass" size="30" type="checkbox">Add this
60         instructor to <?php echo $class['subject']. " - ".$class['section'];
61         ?></input></td>
62     </tr>
63     <tr>
64         <td><br/><input type='submit' value="Add"><a href="<?php echo
65         base_url('index.php/clerk/classmanagement/
66         addInstructor/' . $class["class_id"]); ?>"><input type="button"
67         value="Cancel"></a> </td>
68     </tr>
69 </table>
</form>
</div>
</div>
</body>

```

Listing 55: clerk/add_new_instructor.php

```

1 <?php include('check.php');?>
2
3 <header>
4     <title>OSET 4.0</title>
5     <link href='<?php echo base_url('css/style.css')?' rel='stylesheet' type='text/css'>
6 </header>
7
8 <body>
9     <div class="wrapper">
10         <?php include('header.php'); ?>
11         <div class = "right">
12
13         <h2> Classes Selection <?php echo " (". $user_college_name. ")"; ?></h2>
14
15         <?php echo form_open('clerk/classmanagement/search', array('onSubmit'=>true));

```

```

16     ?>
17     <table>
18     <tr>
19         <td>Subject:</td>
20         <td width="180"><input type="text" name="subject" <?php
21             if(isset($search['subject'])) echo "value='". $search['subject'];
22             ?>'></td>
23         <td>Department: </td>
24         <td width="220">
25             <select name="department">
26                 <option value = "">All departments</option>
27                 <?php
28                     if(!isset($search['department']))
29                         $search['department'] = "";
30                     for ($i = 0; $i < count($departments['department_code']); $i++)
31                     {
32                         echo '<option value="'. $departments['department_code'][$i].' "'';
33                         if($search['department'] == $departments['department_code'][$i])
34                             echo " selected";
35                         echo '>' . $departments['department_name'][$i].'</option>';
36                     }
37                 ?>
38             </select>
39         </td>
40     </tr>
41     <td><input type="submit" value="Search"></td>
42 </table>
43 <?php echo form_close(); ?>
44
45 <table width="100%">
46 <tr>
47 <td align="center"><font color="green"><?php if(isset($_SESSION['msg']))
48     {echo $_SESSION['msg']; unset($_SESSION['msg']);}?></font></td>
49 </tr>
50 </table>
51 <br/>
52 <?php
53     if(isset($records))
54     {
55         echo
56         '<table class="records">
57         <tr>
58             <th>Subject</th>
59             <th>Section</th>
60             <th>Instructors</th>
61             <th align="left">' . if(!isset($_SESSION['accounts_generated'])) echo '<input
62                 type="checkbox" id="checkAll">';
63             echo '
64             Activated</th><th></th>
65         </tr>';
66         echo form_open('clerk/classmanagement/saveSelection/'. $user_college_code,
67             array('onSubmit'=>true));
68         for($i=0; $i<count($records['subject']); $i++) {
69             $class_id = $records['class_id'][$i];
70             echo "<tr>
71                 <td>". $records['subject'][$i]. "</td>
72                 <td>". $records['section'][$i]. "</td>
73                 <td>";
74
75                 foreach ($records['instructors'][$class_id] as $instructor)
76                     echo $instructor. "<br/>";
77
78                 echo "<td>";
79
80                 $j = 0;
81                 foreach ($records['activated'][$class_id] as $activated)
82                 {
83                     echo "<input type='checkbox' name='". $records['class_id'][$i].
84                         $records['faculty_id'][$class_id][$j]. "'";
85                     if($activated)
86                         echo " checked ";
87                     if(isset($_SESSION['accounts_generated']))

```

```

82         echo " disabled";
83         echo "><br/>";
84         $j++;
85     }
86
87
88     echo "<td><a
            href='".base_url('index.php/clerk/classmanagement/edit/'.
            $records['class_id'][$i])."'>Edit</a></td>
            </tr>";
89
90     }
91     echo "</table>";
92     echo "</table>";
93     if(!$SET['accounts_generated'])
94         echo "<table><tr><td><br><input type = 'submit' value = 'Save
            Activation Status'</tr></table>";
95     echo form_close();
96 }
97 else
98 {
99     if(!isset($search['subject']))
100         $search['subject'] = "";
101     if($search['subject'] == "" && $search['department'] == "")
102         echo "Classes for the ".$user_college_name." have not yet been
            downloaded.";
103     else
104         echo "No record found.";
105 }
106
107 if(isset($search['subject']))
108     echo '<br/><br/><a href="classmanagement">Back to all classes </a>';
109
110 ?>
111
112 </div>
113 </div>
114 </body>

```

Listing 56: clerk/class_selection.php

```

1 <?php include('check.php');?>
2
3 <header>
4 <title>OSET 4.0</title>
5 <link href='<?=base_url('css/style.css')?>' rel='stylesheet' type='text/css'>
6 </header>
7
8 <body>
9 <div class="wrapper">
10 <?php include('header.php'); ?>
11 <div class = "right">
12
13 <h2>Close Evaluation <?php echo (".$user_college_name."); ?></h2>
14 <div class="tabs">
15 <table cellpadding="3">
16 <tr>
17 <td align = "center"><a href = "<?php echo
            base_url('index.php/clerk/evaluationmanagement/open')?>"><div class =
            "tabH">Open Evaluation</div></a>
18 <td align = "center"><a href = "#"><div class = "selectedtabH">Close
            Evaluation</div></a>
19 </tr>
20 </table>
21 </div><br/>
22 <?php echo form_open('clerk/evaluationmanagement/searchclose',
            array('onSubmit'=>true)); ?>
23
24 <table>
25 <tr>
26 <td>Subject:</td>

```

```

27     <td width="180"><input type="text" name="subject" <?php
        if(isset($search['subject'])) echo "value='". $search['subject']; ?>
        '></td>
28     <td>Department: </td>
29     <td width="220">
30         <select name="department">
31             <option value = "">All departments</option>
32             <?php
33                 if(!isset($search['department']))
34                     $search['department'] = "";
35                 for ($i = 0; $i < count($departments['department_code']); $i++)
36                 {
37                     echo '<option value="'. $departments['department_code'][$i].'";
38                     if($search['department'] == $departments['department_code'][$i])
39                         echo " selected";
40                     echo '>'. $departments['department_name'][$i]. '</option>';
41                 }
42             <?>
43         </select>
44     </td>
45 </td></td>
46 <td><input type="submit" value="Search"></td>
47 </tr>
48 </table>
49 <?php echo form_close(); ?>
50
51 <table width="100%">
52 <tr>
53     <td align="center"><font color="green"><?php if(isset($_SESSION['msg']))
        {echo $_SESSION['msg'];<br/><br/>}
        unset($_SESSION['msg']);}></font></td>
54 </tr>
55 </table>
56
57 <?php
58     if(isset($records))
59     {
60         echo
61         '<table class="records">
62         <tr>
63             <th>Subject</th>
64             <th>Section</th>
65             <th>Instructor</th>
66             <th>No. of Respondents</th>
67             <th>No. of Students</th>
68             <th align="left"><input type="checkbox" id="checkAll"></th>
69         </tr>';
70         echo form_open('clerk/evaluationmanagement/closesubmit/'.
            $user_college_code, array('onSubmit'=>true));
71         for($i=0; $i<count($records['subject']); $i++) {
72             $class_id = $records['oset_class_id'][$i];
73             echo "<tr>
74                 <td>". $records['subject'][$i]. "</td>
75                 <td>". $records['section'][$i]. "</td>
76                 <td>". $records['instructor'][$i]. "</td>
77                 <td>". $records['no_of_respondents'][$i]. "</td>
78                 <td>". $records['no_of_students'][$i]. "</td>
79                 <td><input type='checkbox'
                    name='". $records['oset_class_id'][$i]. "'></input></td>
80             </tr>";
81         }
82         echo "</table>";
83         echo "<table><tr><td><br><input type = 'submit' value = 'Close evaluation
            mode'></tr></table>";
84         echo form_close();
85     }
86     else
87         echo "No class opened for evaluation found.";
88
89     if(isset($search['subject']))
90         echo '<br/><br/><a href=
            "'.base_url('index.php/clerk/evaluationmanagement/close').'"> Back to
            all classes </a>';

```

```

91
92     ?>
93
94 </div>
95 </div>
96 </body>

```

Listing 57: clerk/close_evaluation.php

```

1 <?php include('check.php');?>
2
3 <header>
4 <title>OSET 4.0</title>
5 <link href='<?=base_url('css/style.css')?>' rel='stylesheet' type='text/css'>
6
7 <script>
8     function warning(){
9         return confirm('Are you sure you want to delete this record?');
10    }
11 </script>
12
13 </header>
14
15 <body>
16 <div class="wrapper">
17 <?php include('header.php'); ?>
18
19 <div class = "right">
20
21 <h2>Instructors <?php echo "(". $class['subject'] ." - ". $class['section'] .")";
22     ?></h2>
23
24 <a href="<?php echo base_url('/index.php/clerk/classmanagement/
25     addInstructor') . "/" . $class['class_id']; ?>">+Add Instructor</a><br/><br/>
26
27 <?php
28     if(isset($class['names']))
29     {
30         echo
31         '<table class="records">
32             <tr>
33                 <th>Instructor Name</a></th>
34                 <th>Instructor Code</a></th>
35                 <th></th>
36             </tr>';
37
38         for($i=0; $i<count($class['instructors']); $i++)
39         {
40             echo "<tr>
41                 <td>". $class['names'][$i] . "</td>
42                 <td>". $class['instructors'][$i] . "</td>
43                 <td><a href= ' ". base_url('/index.php/clerk/classmanagement
44                     /deleteInstructor') . "/" .
45                     $class['class_id'] . $class['faculty_id'][$i] . " "
46                     onclick='return warning();'>Delete Instructor</a></td>
47             </tr>";
48         }
49         echo "</table>";
50     }
51     else
52     echo "There are no instructors assigned to this class yet.";
53 ?>
54
55 <br/><br/>
56 <?php
57     if(isset($_SESSION['subject_keyword']) ||
58         isset($_SESSION['department_keyword']))
59     echo '<a
60         href="'. base_url('/index.php/clerk/classmanagement/search') .'">Back
61         to search results</a>';

```



```

56     else
57         echo ' <a href="' . base_url('/index.php/clerk/classmanagement/') . '">Back to
list of classes </a>';
58     ?>
59 </div>
60 </div>
61 </body>

```

Listing 58: clerk/edit_class.php

```

1 <?php include('check.php');?>
2
3 <header>
4     <title>OSET 4.0</title>
5     <link href='<?base_url('css/style.css')?>' rel='stylesheet' type='text/css'>
6 </header>
7
8 <body>
9     <div class="wrapper">
10         <?php include('header.php'); ?>
11
12         <div class = "right">
13
14             <h2>Edit SET Instrument <?php echo "(" . $class['subject'] . " -
                " . $class['section'] . ")" . ">?></h2>
15
16             <form method="POST" action="<?php echo base_url('index.php/clerk/
17                 setinstrumentassignment/update/' . $class["oset_class_id"])?>">
18
19             <table>
20                 <tr>
21                     <td width="120px;">SET Instrument: <font color='red'>*</font>
22                     <td>
23                         <select name="set_instrument">
24                             <?php
25                                 $i = 0;
26                                 foreach ($set['set_instrument_id'] as $id)
27                                 {
28                                     echo "<option";
29                                     if($id == $class['set_instrument_id'])
30                                         echo " selected";
31                                     echo " value=" . $id . ">" . $set['name'][$i] . "</option>";
32                                     $i++;
33                                 }
34                             ?>
35                         </select>
36                     </td>
37                 </tr>
38                 <tr>
39                     <td></td>
40                     <td><input type='submit' value="Save"><a href="<?php echo
                        base_url('index.php/clerk/setinstrumentassignment/')?>"><input
                        type="button" value="Cancel"></a> </td>
41                 </tr>
42             </table>
43
44             </form>
45
46         </div>
47     </div>
48 </body>

```

Listing 59: clerk/edit_set_instrument.php

```

1 <?php include('check.php');?>
2
3 <header>
4     <title>OSET 4.0</title>

```

```

5     <link href='<?base_url('css/style.css')?>' rel='stylesheet' type='text/css'>
6 </header>
7
8 <body>
9     <div class="wrapper">
10    <?php include('header.php'); ?>
11    <div class = "right">
12
13    <h2>Class Evaluation Status <?php echo "(". $user_college_name."); ?></h2>
14    <div class="tabs">
15    <table cellpadding="3">
16        <tr>
17            <td align = "center"><a href = "#"><div class = "selectedtabH">Class
18                Evaluation Status</div></a>
19            <td align = "center"><a href = "<?php echo
20                base_url('index.php/clerk/evaluationmanagement/studentstatus'); ?>"><div
21                class = "tabH">Student Evaluation Status</div></a>
22        </tr>
23    </table>
24    </div><br/>
25    <?php echo form_open('clerk/evaluationmanagement/searchstatus',
26        array('onSubmit'=>true)); ?>
27
28    <table>
29        <tr>
30            <td>Subject:</td>
31            <td width="180"><input type="text" name="subject" <?php
32                if(isset($search['subject'])) echo "value='". $search['subject'];
33                ?>></td>
34            <td>Department: </td>
35            <td width="220">
36                <select name="department">
37                    <option value = "">All departments</option>
38                    <?php
39                    if(!isset($search['department']))
40                        $search['department'] = "";
41                    for ($i = 0; $i < count($departments['department_code']); $i++)
42                    {
43                        echo '<option value="'. $departments['department_code'][$i].'";
44                        if($search['department'] == $departments['department_code'][$i])
45                            echo " selected";
46                        echo '>'. $departments['department_name'][$i]. '</option>';
47                    }
48                </select>
49            </td>
50        </tr>
51        <tr>
52            <td><input type="submit" value="Search"></td>
53        </tr>
54    </table>
55    <?php echo form_close(); ?>
56
57    <?php
58    if(isset($records))
59    {
60        echo
61        ' <table class="records">
62        <tr>
63            <th>Subject</th>
64            <th>Section</th>
65            <th>Instructor</th>
66            <th>No. of Respondents</th>
67            <th>No. of Students</th>
68            <th>Status</th>
69        </tr>';
70        echo form_open('clerk/evaluationmanagement/closesubmit/'.
71            $user_college_code, array('onSubmit'=>true));
72        for($i=0; $i<count($records['subject']); $i++) {
73            echo " <tr>
74                <td>". $records['subject'][$i]. "</td>
75                <td>". $records['section'][$i]. "</td>
76                <td>". $records['instructor'][$i]. "</td>
77                <td>". $records['no_of_respondents'][$i]. "</td>

```

```

71         <td>".$records['no_of_students'][$i]."</td>
72         <td>";
73         if($records['status'][$i] == 1)echo "Open";
74         else echo "Closed";
75         echo"</td>
76         </tr>";
77     }
78     echo "</table>";
79     echo form_close();
80 }
81 else
82 {
83     echo "There are no class selected to undergo evaluation for the current
84     semester.";
85 }
86 if(isset($search['subject']))
87     echo '<br/><br/><a href=
88         "'.base_url('index.php/clerk/evaluationmanagement/status').'">Back to
89         all classes </a>';
90
91 </div>
92 </div>
93 </body>

```

Listing 60: clerk/evaluation_status.php

```

1 <header>
2 <title>OSET 4.0</title>
3 <link href='<?=base_url('css/style.css')?>' rel='stylesheet' type='text/css'>
4 </header>
5
6 <body>
7 <div class="wrapper">
8 <?php include('header.php'); ?>
9
10 <div class = "right">
11 <h2>Faculty Summarized Report <?php echo "($user_college_name)"; ?></h2>
12 <div class="tabs">
13 <table cellpadding="3">
14 <tr>
15 <td align = "center"><a href = "#"><div class = "selectedtabH">View
16 <div class = "center"><a href = "<?php echo
17 <div class = "tabH">Search Report
18 </tr>
19 </table>
20 </div>
21 <br/>
22 <a href="<?php echo base_url('index.php/clerk/reportmanagement/
23 <a href="<?php echo base_url('index.php/clerk/reportmanagement/
24 <?php if(substr($SET['semester'], 4, 1)==1) echo '1st'; else echo '2nd';
25 <?php if(substr($SET['semester'], 4, 1)==1) echo '1st'; else echo '2nd';
26 <?php $y = substr($SET['semester'], 0, 4); $y2 = $y+1; echo
27 $y.'-' . $y2;?>
28 <br/><br/>
29
30 <?php echo form_open('clerk/reportmanagement/searchfacultysummarizedreport',
31 <table>
32 <tr>
33 <td>Instructor's name: </td>
34 <td><input type="text" size="15" name="instructor" <?php
35 if(isset($search['instructor'])) echo

```

```

35         "value='". $search['instructor']; ?>' ></td>
36     <td>&nbsp;<input type="submit" value="Search"></td>
37 </tr>
38 </table>
39 <?php echo form_close(); ?>
40 <table class="records">
41 <?php
42     if(isset($instructors))
43     {
44         echo '
45         <tr>
46             <th>Name</th>
47             <th width="20%">Subject</th>
48             <th width="6%">Units</th>
49             <th style="white-space:nowrap;">No. of Students</th>
50             <th style="white-space:nowrap;">No. of Respondents</th>
51             <th width="8%">Score</th>
52             <th>Total</th>
53             <th>Rating</th>
54         </tr>
55         ';
56         $i = 0; $j = 0;
57         foreach ($instructors['name'] as $name)
58         {
59             $rows = $count[$j]+1;
60             $totalunits = 0; $totalscore = 0;
61             if($classes['score'][$i] >= 1)
62                 $totalunits += $classes['units'][$i];
63             $totalscore += $classes['total'][$i];
64             echo '
65             <tr>
66                 <td align="center" valign="middle"
67                     rowspan='. $rows. '><b>'. $name. '</b></td>
68                 <td>'. $classes['subject'][$i]. '</td>
69                 <td align="center">'. $classes['units'][$i]. '</td>
70                 <td align="center">'. $classes['no_of_students'][$i]. '</td>
71                 <td align="center">'. $classes['no_of_respondents'][$i]. '</td>
72                 <td align="right">'. sprintf('%0.4f',
73                     round($classes['score'][$i],4)). '</td>
74                 <td align="right">'. sprintf('%0.4f',
75                     round($classes['total'][$i],4)). '</td>
76                 <td align="center">'. $classes['rating'][$i]. '</td>
77             </tr>';
78             for ($k = 1, $i++; $k < $count[$j]; $i++)
79             {
80                 if($classes['score'][$i] >= 1)
81                     $totalunits += $classes['units'][$i];
82                 $totalscore += $classes['total'][$i];
83                 echo '
84                 <tr>
85                     <td>'. $classes['subject'][$i]. '</td>
86                     <td align="center">'. $classes['units'][$i]. '</td>
87                     <td align="center">'. $classes['no_of_students'][$i]. '</td>
88                     <td align="center">'. $classes['no_of_respondents'][$i]. '</td>
89                     <td align="right">'. sprintf('%0.4f',
90                         round($classes['score'][$i],4)). '</td>
91                     <td align="right">'. sprintf('%0.4f',
92                         round($classes['total'][$i],4)). '</td>
93                     <td align="center">'. $classes['rating'][$i]. '</td>
94                 </tr>
95                 ';
96                 $k++;
97             }
98             if($totalunits >= 1)
99                 $save = round($totalscore/$totalunits, 4);
100             else
101                 $save = 0;
102             echo '
103             <tr>
104                 <td><b>TOTAL</b></td>
105                 <td align="center"><b>'. $totalunits. '</b></td>
106                 <td colspan = 3></td>
107                 <td align="right"><b>'. $save. '</b></td>

```

```

102         <td align="center"><b>' .getRating($save).'</b></td>
103     </tr>
104     ' ;
105     $j++;
106     }
107     echo "</table>";
108     }
109     else
110     {
111         if(!isset($search))
112             echo "There is no instructor whose all classes are already closed for
113                 evaluation.";
114         else
115             echo "No instructor found.";
116     }
117     if(isset($search))
118         echo "<br/><br/><a href='".base_url('index.php/clerk/reportmanagement/
119             facultysummarizedreport')."'>Back to all instructors </a>";
120     ?>
121 </div>
122 </div>
</body>

```

Listing 61: clerk/faculty_report.php

```

1 <header>
2 <title>OSET 4.0</title>
3 <link href='<?=base_url('css/style.css')?>' rel='stylesheet' type='text/css'>
4 </header>
5
6 <body>
7 <div class="wrapper">
8 <?php include('header.php');
9     function convertToString($sem_ay)
10    {
11        $sem = substr($sem_ay, 4, 1);
12        if($sem == 1)
13            $sem = "1st semester, A.Y. ";
14        else {
15            $sem = "2nd semester, A.Y. ";
16        }
17        $year = substr($sem_ay, 0, 4);
18        $year2 = $year+1;
19
20        return ' '.$sem.' '.$year.'-' . $year2;
21    }
22    ?>
23
24    <div class = "right">
25    <h2>Faculty Summarized Report <?php echo "(". $user_college_name.)"; ?></h2>
26
27    <div class="tabs">
28    <table cellpadding="3">
29        <tr>
30            <td align = "center"><a href = "<?php echo
31                base_url('index.php/clerk/reportmanagement
32                /facultysummarizedreport');?>"><div class = "tabH">View Report</div></a>
33            <td align = "center"><a href = "#"><div class = "selectedtabH">Search
34                Report Archive</div></a>
35        </tr>
36    </table>
37    </div>
38    <br/>
39    <?php echo
40        form_open('clerk/reportmanagement/searchfacultysummarizedreportarchive',
41            array('onSubmit'=>true)); ?>
42    <table>
43        <tr>
44            <td>A.Y. Sem: </td>
45            <td>

```



```

1 <meta http-equiv='Content-Type' content='text/html; charset=UTF-8' />
2 <script src="<?php if(strpos($_SERVER["PHP_SELF"],"changepassword")) echo
   str_replace('http', 'https', base_url('js/jquery-1.9.1.js')); else echo
   base_url('js/jquery-1.9.1.js');?>"></script>
3 <script src="<?php if(strpos($_SERVER["PHP_SELF"],"changepassword")) echo
   str_replace('http', 'https', base_url('js/jquery-ui.js')); else echo
   base_url('js/jquery-ui.js');?>"></script>
4 <script>
5   <?php
6     $index = 0;
7     if(isset($isAdmin)) $index++;
8     if(isset($isClerk)) $index++;
9     if(isset($isAnalyst)) $index++;
10    if(strpos($_SERVER["PHP_SELF"],"changepassword") === false)
11      $index = 0;
12  ?>
13  $(document).ready(function() {
14    $("#accordion").accordion({active:<?php echo $index; ?>, heightStyle:
15      "content"});
16  });
17 </script>
18 <div class="header">
19   &nbsp; &nbsp; &nbsp;
20   </img>
21   &nbsp; &nbsp; &nbsp;
22   <font class="title">Online Student Evaluation of Teachers</font>
23   <div class="subtitle">
24     University of the Philippines Manila</div>
25   <div class="loginbar">Welcome <?php echo $first_name; ?>. <a href="<?php echo
     base_url('/index.php/login/logout'); ?>">Logout</a> &nbsp;&nbsp;&nbsp;</div>
26 </div>
27
28 <div class="left">
29   <div id="accordion">
30     <?php
31     if(isset($isAdmin))
32     {
33       echo '
34       <div class="module-div2">
35         <a href="" class="no-style"><h1>Administration</h1></a>
36       </div>
37
38       <div>
39         <div class="module-div" class="current">
40           <h1>Account Management</h1>
41           <a href="'.base_url('/index.php/admin/account').'"';
42             if(strpos($_SERVER["PHP_SELF"],"admin/account")) echo
43               'class="current"'; echo'> View User Accounts</a>
44           <a href="'.base_url('/index.php/admin/studentaccountmanagement').'"';
45             if(strpos($_SERVER["PHP_SELF"],"admin/studentaccountmanagement")
46               && !strpos($_SERVER["PHP_SELF"],"admin/studentaccountmanagement
47                 /changepassword")) echo 'class="current"';
48               echo'>Generate Student Accounts</a>
49           <a href="'.base_url('/index.php/admin/studentaccountmanagement/
50             changepassword').'"'; if(strpos($_SERVER["PHP_SELF"],
51               "admin/studentaccountmanagement
52                 /changepassword")) echo 'class="current"';
53             echo ' ">Change Student\'s Password</a>
54           <a href="'.base_url('/index.php/admin/audittrail').'"';
55             if(strpos($_SERVER["PHP_SELF"],"audittrail")) echo
56               'class="current"';
57             echo ' ">Audit Trail</a>
58         </div>
59
60         <div class="module-div">
61           <h1>Class Management</h1>
62           <a href="'.base_url('/index.php/admin/classmanagement').'"';
63             if(strpos($_SERVER["PHP_SELF"],"admin/classmanagement")) echo
64               'class="current"'; echo'>Download Classes</a>
65         </div>
66     }

```

```

57     <div class="module-div">
58         <h1>SET </h1>
59         <a href="'.base_url('/index.php/admin/SET').'"
           if(strpos($_SERVER["PHP_SELF"],"admin/SET")) echo
           'class="current"'; echo' "> Setup</a>
60         <a href="'.base_url('/index.php/admin/setinstrumentmanagement').'"
           if(strpos($_SERVER["PHP_SELF"],"admin/setinstrument")) echo
           'class="current"'; echo' "> SET Instrument Management</a>
61     </div>
62 </div>';
63 }
64 if(isset($isClerk))
65 {
66     echo '
67     <div class="module-div2">
68         <a href="" class="no-style"><h1>Clerk Utilities</h1></a>
69     </div>
70
71     <div>
72         <div class="module-div">
73             <h1>Class Management</h1>
74             <a href="'.base_url('/index.php/clerk/classmanagement').'"
75               if(strpos($_SERVER["PHP_SELF"],"clerk/classmanagement")
76                 && !strpos($_SERVER["PHP_SELF"],"clerk/classmanagement/view"))
77               echo 'class="current"'; echo' ">Classes-Faculty Selection</a>
78             <a href="'.base_url('/index.php/clerk/studentaccount').'"
79               if(strpos($_SERVER["PHP_SELF"],"clerk/studentaccount")) echo
               'class="current"'; echo' ">List of Students</a>
               <a href="'.base_url('/index.php/clerk/setinstrumentassignment').'"
               if(strpos($_SERVER["PHP_SELF"],"clerk/setinstrumentassignment")
               && strpos($_SERVER["PHP_SELF"],"set")) echo 'class="current"';
               echo' ">SET Instrument Assignment</a>';
80         echo ' </div>';
81
82         if($SET['accounts_generated'])
83         {
84             echo '
85             <div class="module-div">
86                 <h1>Evaluation Management</h1>
87                 <a href=
88                   "'.base_url('/index.php/clerk/evaluationmanagement/open').'"
89                   if(strpos($_SERVER["PHP_SELF"],"open") ||
90                     strpos($_SERVER["PHP_SELF"],"close")) echo 'class="current"';
91                   echo' ">Evaluation Mode</a>
92                 <a href=
93                   "'.base_url('/index.php/clerk/evaluationmanagement/status').'"
94                   if(strpos($_SERVER["PHP_SELF"],"status")) echo
95                   'class="current"'; echo' ">Evaluation Status</a>
96             </div>
97             ';
98         }
99         echo '
100         <div class="module-div">
101             <h1>Report Management </h1>
102             <a href=
103               "'.base_url('/index.php/clerk/reportmanagement
104                 /reportperclass').'"
105               if(strpos($_SERVER["PHP_SELF"],
106                 "reportperclass")) echo 'class="current"'; echo' ">Class
107               Detailed Report</a>
108             <a href="'.base_url('/index.php/clerk/reportmanagement/
109               facultysummarizedreport').'"
               if(strpos($_SERVER["PHP_SELF"],"faculty")) echo
               'class="current"'; echo' ">Faculty Summarized Report</a>
110         </div>
111     </div>';
112 }
113 if(isset($isAnalyst))
114 {
115     echo '
116     <div class="module-div2">
117         <a class="no-style" href=""><h1>Info Security Analyst</h1></a>
118     </div>
119     <div>
120         <div class="module-div">

```



```

110         <h1>Export Data</h1>
111         <a href="'.base_url('/index.php/infoanalyst/exportdata').'"';
            if(strpos($_SERVER["PHP_SELF"],"export")) echo 'class="current"';
            echo'>Archive Tables</a>
112     </div>
113 </div>
114 ';
115 }
116 ?>
117 <div class="module-div2">
118     <a class="no-style" href=""><h1>Account Management</h1></a>
119 </div>
120 <div>
121     <div class="module-div">
122         <a href="=base_url('/index.php/changepassword')?" <?php
            if(strpos($_SERVER["PHP_SELF"],
123             "changepassword")) echo 'class="current"'?>> Change password</a>
124         <a href="=base_url('/index.php/login/logout')?">Logout</a>
125     </div>
126 </div>
127 </div>
128 </div>

```

Listing 63: clerk/header.php

```

1 <?php include('check.php');?>
2
3 <header>
4     <title>OSET 4.0</title>
5     <link href="=base_url('css/style.css')?" rel='stylesheet' type='text/css'>
6 </header>
7
8 <body>
9     <div class="wrapper">
10     <?php include('header.php'); ?>
11     <div class = "right">
12
13     <h2> Open Evaluation <?php echo "($_.user_college_name.)"; ?></h2>
14     <div class="tabs">
15     <table cellpadding="3">
16         <tr>
17             <td align = "center"><a href = "#"><div class = "selectedtabH">Open
                Evaluation</div></a>
18             <td align = "center"><a href = "<?php echo
                base_url('index.php/clerk/evaluationmanagement/close')?>"><div class =
                "tabH">Close Evaluation</div></a>
19         </tr>
20     </table>
21 </div><br/>
22 <?php echo form_open('clerk/evaluationmanagement/searchopen',
                array('onSubmit'=>true)); ?>
23
24 <table>
25     <tr>
26         <td>Subject:</td>
27         <td width="180"><input type="text" name="subject" <?php
                if(isset($search['subject'])) echo "value='".$_search['subject']; ?>
                '></td>
28         <td>Department: </td>
29         <td width="220">
30             <select name="department">
31                 <option value = "">All departments</option>
32                 <?php
33                     if(!isset($search['department']))
34                         $search['department'] = "";
35                     for ($i = 0; $i < count($departments['department_code']); $i++)
36                     {
37                         echo '<option value="'. $departments['department_code'][$i].'"';
38                         if($search['department'] == $departments['department_code'][$i])
39                             echo " selected";

```

```

40         echo '>' . $departments['department_name'][$i] . '</option>';
41     }
42     ?>
43     </select>
44     </td>
45     <td></td>
46     <td><input type="submit" value="Search"></td>
47 </tr>
48 </table>
49 <?php echo form_close(); ?>
50
51 <table width="100%">
52 <tr>
53     <td align="center"><font color="green"><?php if(isset($_SESSION['msg']))
54         {echo $_SESSION['msg'] . '<br/><br/>';
55         unset($_SESSION['msg']);} ?></font></td>
56 </tr>
57 </table>
58 <?php
59     if(isset($records))
60     {
61         echo
62         ' <table class="records">
63         <tr>
64             <th>Subject</th>
65             <th>Section</th>
66             <th>Instructor</th>
67             <th align="left"><input type="checkbox" id="checkAll"></th>
68         </tr>';
69         echo form_open('clerk/evaluationmanagement/opensubmit/'.
70             $user_college_code, array('onSubmit'=>true));
71         for($i=0; $i<count($records['subject']); $i++) {
72             $class_id = $records['oset_class_id'][$i];
73             echo " <tr>
74                 <td>". $records['subject'][$i] . "</td>
75                 <td>". $records['section'][$i] . "</td>
76                 <td>". $records['instructor'][$i] . "</td>
77                 <td><input type='checkbox'
78                     name='". $records['oset_class_id'][$i] . "'></input></td>
79             </tr>";
80         }
81         echo "</table>";
82         echo "<table><tr><td><br><input type = 'submit' value = 'Open evaluation
83             mode'></tr></table>";
84         echo form_close();
85     }
86     else
87     echo "No class to be opened for evaluation found.";
88
89     if(isset($search['subject']))
90     echo ' <br/><br/><a
91         href="'. base_url('index.php/clerk/evaluationmanagement/open') . "'>Back
92         to all classes </a>';
93
94     ?>
95 </div>
96 </div>
97 </body>

```

Listing 64: clerk/open_evaluation.php

```

1 <?php include('check.php'); ?>
2
3 <header>
4     <title>OSET 4.0</title>
5     <link href='<?=base_url('css/style.css') ?>' rel='stylesheet' type='text/css'>
6 </header>
7
8 <body>

```



```

75         echo
76         "<tr>
77             <td>".$records['subject'][$i]."</td>
78             <td>".$records['section'][$i]."</td>
79             <td>".$records['instructor'][$i]."</td>
80             <td><a target='_blank' href='".$base_url('index.php/clerk/set/'.
                $records['controller_name'][$i].
                '/generateReportPerClass/'.$id)."'>View report</a></td>
81         </tr>";
82         $i++;
83     }
84     echo '</table>';
85 }
86 else
87 {
88     echo 'There is no class which evaluation process is already closed.';
89 }
90 if(isset($search['subject']))
91     echo "<br/><br/><a href='".$base_url('index.php/clerk/reportmanagement
92         /reportperclass')."'>Back to all classes </a>";
93     ?>
94 </div>
95
96 <br/><br/>
97
98 </div>
99 </div>
100 </body>

```

Listing 65: clerk/report_per_class.php

```

1 <header>
2 <title>OSET 4.0</title>
3 <link href='<?=$base_url('css/style.css')?'>' rel='stylesheet' type='text/css'>
4 </header>
5
6 <body>
7 <div class="wrapper">
8 <?php include('header.php');
9     function convertToString($sem_ay)
10    {
11        $sem = substr($sem_ay, 4, 1);
12        if($sem == 1)
13            $sem = "1st,";
14        else {
15            $sem = "2nd,";
16        }
17        $year = substr($sem_ay, 0, 4);
18        $year2 = $year+1;
19
20        return ' '.$sem.' '.$year.'-'.$year2;
21    }
22    ?>
23
24 <div class = "right">
25 <h2>Class Detailed Report <?php echo "($user_college_name)"; ?></h2>
26
27 <div class="tabs">
28 <table cellpadding="3">
29 <tr>
30 <td align = "center"><a href = "<?php echo
                base_url('index.php/clerk/reportmanagement/reportperclass'); ?>"><div
                class = "tabH">View Report</div></a>
31 <td align = "center"><a href = "#"><div class = "selectedtabH">Search
                Report Archive</div></a>
32 </tr>
33 </table>
34 </div>
35 <br/>
36 <?php echo form_open('clerk/reportmanagement/searchreportperclassarchive',

```

```

        array('onSubmit'=>true)); ?>
37 <table>
38 <tr>
39 <td>A.Y. Sem:
40 <select name="sem_ay">
41 <?php
42     if(!isset($search['sem_ay']))
43         $search['sem_ay'] = "";
44     if(isset($sem_ay))
45     {
46         foreach ($sem_ay as $s)
47         {
48             echo '<option value="'. $s. "'>';
49             if($search['sem_ay'] == $s)
50                 echo " selected";
51             echo '>' . convertToString($s) . '</option>';
52         }
53     }
54     else
55         echo '<option value ='. $SET['semester']. '>' .
            convertToString($SET['semester']). '</option>'
56     ?>
57 </select>&nbsp;
58 </td>
59 <td>Department:
60 <select name="department">
61 <option value = ">All departments</option>
62 <?php
63     if(!isset($search['department']))
64         $search['department'] = "";
65     for ($i = 0; $i < count($departments['department_code']); $i++)
66     {
67         echo '<option value="'. $departments['department_code'][$i]. "'>';
68         if($search['department'] == $departments['department_code'][$i])
69             echo " selected";
70         echo '>' . $departments['department_name'][$i] . '</option>';
71     }
72     ?>
73 </select>&nbsp;
74 </td>
75 <td>Subject: <input type="text" size="15" name="subject" <?php
        if(isset($search['subject'])) echo "value='". $search['subject']; ?>
        >&nbsp; </td>
76 <td valign="bottom"><input type="submit" value="Search"></td>
77 </tr>
78 </table>
79 <?php echo form_close(); ?>
80
81 <?php
82     if($records)
83     {
84         echo '
85         <table class="records">
86             <tr>
87                 <th>Course</th>
88                 <th>Instructor</th>
89                 <th>Department</th>
90                 <th></th>
91             </tr>';
92
93         $i = 0;
94         foreach ($records['path'] as $link)
95         {
96             echo
97                 "<tr>
98                 <td>". $records['course'][$i]. "</td>
99                 <td>". $records['instructor'][$i]. "</td>
100                <td>". $records['department'][$i]. "</td>
101                <td><a target='_blank' href='". base_url($link). "'>View
                    report</a></td>
102                </tr>";
103             $i++;
104         }

```

```

105         echo '</table>';
106     }
107     else
108     {
109         echo 'No report found.';
110     }
111     ?>
112 </div>
113
114 <br/><br/>
115
116 </div>
117 </div>
118 </body>

```

Listing 66: clerk/report_per_class_archive.php

```

1 <?php include('check.php');?>
2
3 <header>
4     <title>OSET 4.0</title>
5     <link href='<?==base_url('css/style.css')?' rel='stylesheet' type='text/css'>
6 </header>
7
8 <body>
9     <div class="wrapper">
10    <?php include('header.php'); ?>
11    <div class = "right">
12
13    <h2> Assignment of SET Instrument <?php echo " (".$user_college_name.");
14    ?></h2>
15
16    <?php echo form_open('clerk/setinstrumentassignment/search',
17        array('onSubmit'=>true)); ?>
18
19    <table>
20        <tr>
21            <td>Subject:</td>
22            <td width="180"><input type="text" name="subject" <?php
23                if(isset($search['subject'])) echo "value='".$search['subject'];
24                ?>></td>
25            <td>Department: </td>
26            <td width="220">
27                <select name="department">
28                    <option value = "">All departments</option>
29                    <?php
30                        if(!isset($search['department']))
31                            $search['department'] = "";
32                        for ($i = 0; $i < count($departments['department_code']); $i++)
33                        {
34                            echo '<option value="'. $departments['department_code'][$i].' "';
35                            if($search['department'] == $departments['department_code'][$i])
36                                echo " selected";
37                            echo '>'. $departments['department_name'][$i]. '</option>';
38                        }
39                    ?>
40                </select>
41            </td>
42            <td></td>
43            <td><input type="submit" value="Search"></td>
44        </tr>
45    </table>
46    <?php echo form_close(); ?>
47
48    <table width="100%">
49        <tr>
50            <td align="center"><font color="green"><?php if(isset($_SESSION['msg']))
51                {echo $_SESSION['msg']; unset($_SESSION['msg']);}?></font></td>
52        </tr>
53    </table>

```

```

49     <br/>
50     <?php
51         if(isset($records))
52         {
53             echo form_open('clerk/setinstrumentassignment/submit/',
54                 array('onSubmit'=>true));
55             echo
56             ' <table class="records">
57             <tr>
58                 <th>Subject</th>
59                 <th>Section</th>
60                 <th>Instructor</th>
61                 <th>SET Instrument</th>
62                 <th align="left"><input type="checkbox" id="checkAll"></th>
63             </tr>';
64             for($i=0; $i<count($records['subject']); $i++) {
65                 echo " <tr>
66                     <td>".$records['subject'][$i]."</td>
67                     <td>".$records['section'][$i]."</td>
68                     <td>".$records['instructor'][$i]."</td>
69                     <td>".$records['set_instrument'][$i]."</td>";
70                 echo " <td><input type='checkbox'
71                     name='."$records['oset_class_id'][$i]."'></td>";
72             }
73             echo "</table>";
74
75             echo "<br/>
76             <table>
77             <tr>
78                 <td width='270px'>Choose SET instrument for selected classes: </td>
79                 <td>
80                     <select name='set_instrument'>";
81                     for ($i = 0; $i < count($instruments['set_instrument_id']);
82                         $i++)
83                     {
84                         echo ' <option
85                             value=".'"$instruments['set_instrument_id'][$i].'">'
86                             ."$instruments['name'][$i].'</option>';
87                     }
88                     echo "
89                     </select>
90                 </td>
91                 <td><input type = 'submit' value = 'Submit'></td>
92             </tr>
93             </table>";
94         }
95         else
96         {
97             echo "No unopened class found.";
98         }
99         if(isset($search['subject']))
100            echo ' <br/><br/><a href="setinstrumentassignment">Back to all classes
101                </a>';
102     ?>
103
104 </div>
105 </div>
106 </body>

```

Listing 67: clerk/set_instrument_assignment.php

```

1 <?php include('check.php');?>
2
3 <header>
4 <title>OSET 4.0</title>

```

```

5     <link href='<?=base_url('css/style.css')?>' rel='stylesheet' type='text/css'>
6 </header>
7
8 <body>
9     <div class="wrapper">
10        <?php include('header.php'); ?>
11
12        <div class = "right">
13
14        <h2> List of Classes <?php echo " (".$student->name.)"; ?></h2>
15
16        <?php
17            echo
18                '<table class="records">
19                    <tr>
20                        <th>Subject</th>
21                        <th>Section</th>
22                        <th>Department</th>
23                        <th>Instructor</th>
24                    </tr>';
25
26            for($i=0; $i<count($classes['class_id']); $i++) {
27                echo "<tr>
28                    <td>". $classes['subject'][$i]. "</td>
29                    <td>". $classes['section'][$i]. "</td>
30                    <td>". $classes['department_code'][$i]. "</td>
31                    <td>". $classes['instructor'][$i]. "</td>
32                </tr>";
33            }
34            echo "</table>";
35        ?>
36
37        <br/><br/>
38        <?php
39            if(isset($_SESSION['student_keyword']))
40                echo '
41                    <form id="search_form" method="POST"
42                        action="'.base_url('/index.php/clerk/studentaccount/search').'">
43                        <input type="hidden" value="'.$_SESSION['student_keyword'].'"
44                            name="name">
45                        <a href="#"
46                            onclick="document.getElementById(\'search_form\').submit();">Back
47                            to search results</a>
48                    </form>
49                    ';
50            else
51                echo '<a href="'.base_url('/index.php/clerk/studentaccount/').'">Back to
                    list of students </a>';
52        ?>
53    </div>
54 </div>
55 </body>

```

Listing 68: clerk/student_classlist.php

```

1 <?php include('check.php');?>
2
3 <header>
4     <title>OSET 4.0</title>
5     <link href='<?=base_url('css/style.css')?>' rel='stylesheet' type='text/css'>
6 </header>
7
8 <body>
9     <div class="wrapper">
10        <?php include('header.php'); ?>
11        <div class = "right">
12
13        <h2>Student Evaluation Status <?php echo " (".$user_college_name.)"; ?></h2>
14        <div class="tabs">
15        <table cellpadding="3">

```



```

16     <tr>
17     <td align = "center"><a href = "<?php echo
        base_url('index.php/clerk/evaluationmanagement/status');?>"><div class
          = "tabH">Class Evaluation Status</div></a>
18     <td align = "center"><a href = "#"><div class = "selectedtabH">Student
        Evaluation Status</div></a>
19     </tr>
20 </table>
21 </div><br/>
22 <a href= "<?php echo base_url('/index.php/clerk/evaluationmanagement/
23   updatePDFStudentStatus')?>">
24   Update list
25 </a><br/><br/>
26
27 <iframe src='<?php echo
        base_url('/reports/students_with_unevaluated_classes_' .
          $user_college_code.'.pdf');?>' width="100%" height="1000px;" />
28 </div>
29 </div>
30 </body>

```

Listing 69: clerk/student_status.php

```

1 <?php include('check.php');?>
2
3 <header>
4   <title>OSET 4.0</title>
5   <link href='<?=base_url('css/style.css')?>' rel='stylesheet' type='text/css'>
6 </header>
7
8 <body>
9   <div class="wrapper">
10    <?php include('header.php'); ?>
11
12    <div class = "right">
13
14    <h2> List of Students <?php echo "(". $user_college_name.")"; ?></h2>
15
16    <?php
17      if(!isset($name))
18        $name = "";
19      echo form_open('clerk/studentaccount/search', array('onSubmit'=>true));
20      echo
21      "<table>
22        <tr>
23          <td>Student's name:
24          <td><input type='text' name='name' value='". $name."'>
25          <td><input type='submit' value=' Search'>
26        </tr>
27      </table>";
28      echo form_close();
29    ?>
30
31    <?php
32      if(isset($records))
33      {
34        echo
35        '<table class="records">
36          <tr>
37            <th>Name</th>
38            <th>Student Number</th>
39            <th></th>
40          </tr>';
41
42        for($i=0; $i<count($records['student_id']); $i++) {
43          echo "<tr>
44            <td>". $records['name'][$i]. "</td>
45            <td>". substr_replace($records['student_id'][$i], '-', 4,
46              0). "</td>

```

```

47         studentaccount/viewclasses/'.
48         $records['student_id'][$i])."'>View classes</a></td>
49     }
50     echo "</table>";
51 }
52 else
53 {
54     if($name == "")
55         echo "Student accounts for the ".$user_college_name." have not yet been
56         generated.";
57     else
58         echo "No record found.";
59 }
60 if($name)
61     echo "<br/><br/><a href='studentaccount'>Back to all students</a>"
62 ?>
63
64 </div>
65 </div>
66 </body>

```

Listing 70: clerk/student_list.php

```

1 <?php
2 function getRating($score)
3 {
4     $rating = "";
5     if($score >= 1)
6     {
7         if ($score <= 1.24)
8             $rating = "Outstanding";
9         elseif ($score <= 1.75)
10            $rating = "Very satisfactory";
11        elseif ($score <= 2.25)
12            $rating = "Satisfactory";
13        elseif ($score <= 2.75)
14            $rating = "Fair";
15        else
16            $rating = "Needs improvement";
17    }
18    return $rating;
19 }
20 ?>
21
22 <html>
23 <header>
24
25 </header>
26 <style>
27     table {font-size: 12px; border-collapse: collapse;}
28     td {white-space: nowrap;
29         padding: 0 3px;}
30     body{font: 14px "proxima-nova", Helvetica, Arial, sans-serif;}
31 </style>
32
33 <body>
34     <b>
35         UNIVERSITY OF THE PHILIPPINES MANILA <br/>
36         STUDENT EVALUATION OF TEACHERS
37     </b>
38
39     <br/><br/>
40     <table width="100%">
41         <tr>
42             <td>College: <?php echo $user_college_code;?></td>
43             <td>Date: <?php date_default_timezone_set('Asia/Manila'); echo date("F j,
44                 Y, g:i a"); ?></td>

```

```

45     <tr>
46         <td>Sem/AY: <?php echo $sem_ay; ?></td>
47     </tr>
48 </table>
49 <hr>
50 <br/>
51
52 <table border='1'>
53     <?php
54         if(isset($instructors))
55         {
56             echo '
57                 <tr>
58                     <th>Name</th>
59                     <th width="20%">Subject</th>
60                     <th width="8%">Units</th>
61                     <th width="11%">No. of Students</th>
62                     <th width="11%">No. of Students Evaluated</th>
63                     <th width="9%">Score</th>
64                     <th>Total</th>
65                     <th>Rating</th>
66                 </tr>
67             ';
68             $i = 0; $j = 0;
69             foreach ($instructors['name'] as $name)
70             {
71                 $rows = $count[$j]+1;
72                 $totalunits = 0; $totalscore = 0;
73                 if($classes['score'][$i] >= 1)
74                     $totalunits += $classes['units'][$i];
75                 $totalscore += $classes['total'][$i];
76                 echo '
77                     <tr>
78                         <th align="center" valign="middle" rowspan='.$rows.'>'.$name.'</th>
79                         <td>'.$classes['subject'][$i]. '</td>
80                         <td align="center">'.$classes['units'][$i]. '</td>
81                         <td align="center">'.$classes['no_of_students'][$i]. '</td>
82                         <td align="center">'.$classes['no_of_respondents'][$i]. '</td>
83                         <td align="right">'.sprintf('%0.4f',
84                             round($classes['score'][$i],4)). '</td>
85                         <td align="right">'.sprintf('%0.4f',
86                             round($classes['total'][$i],4)). '</td>
87                         <td align="center">'.$classes['rating'][$i]. '</td>
88                     </tr>';
89                 for ($k = 1, $i++; $k < $count[$j]; $i++)
90                 {
91                     if($classes['score'][$i] >= 1)
92                         $totalunits += $classes['units'][$i];
93                     $totalscore += $classes['total'][$i];
94                     echo '
95                         <tr>
96                             <td>'.$classes['subject'][$i]. '</td>
97                             <td align="center">'.$classes['units'][$i]. '</td>
98                             <td align="center">'.$classes['no_of_students'][$i]. '</td>
99                             <td align="center">'.$classes['no_of_respondents'][$i]. '</td>
100                             <td align="right">'.sprintf('%0.4f',
101                                 round($classes['score'][$i],4)). '</td>
102                             <td align="right">'.sprintf('%0.4f',
103                                 round($classes['total'][$i],4)). '</td>
104                             <td align="center">'.$classes['rating'][$i]. '</td>
105                         </tr>';
106                     $k++;
107                 }
108                 if($totalunits >= 1)
109                     $ave = round($totalscore/$totalunits, 4);
110                 else
111                     $ave = 0;
112                 echo '
113                     <tr>
114                         <td><b>TOTAL</b></td>
115                         <td align="center"><b>'.$totalunits.'</b></td>
116                         <td colspan = 3></td>

```

```

114         <td align="right"><b>'.save.'</b></td>
115         <td align="center"><b>'.getRating($save).'</b></td>
116     </tr>
117     ';
118     $j++;
119 }
120 }
121 else
122     echo "There is no instructor whose all classes are already closed for
    evaluation.";
123 ?>
124 </table>
125 </body>
126 </html>

```

Listing 71: clerk/summarized_faculty_report.php

```

1 <?php include('check.php'); ?>
2 <header>
3     <title>OSET 4.0</title>
4     <link href='<?=base_url('css/style.css')?>' rel='stylesheet' type='text/css'>
5 </header>
6
7 <body>
8 <div class="wrapper">
9     <?php include('header.php'); ?>
10
11     <div class = "right">
12         <h2> SET Instrument Tables </h2>
13
14         <?php
15         if(count($records['name']))
16         {
17             echo'
18             <table class="records">
19             <tr>
20                 <th width="120px">SET Instrument ID</th>
21                 <th>SET Instrument Name</th>
22                 <th>Table Name</th>
23                 <th></th>
24             </tr>';
25
26             for ($i = 0; $i <count($records['name']); $i++) {
27                 echo "<tr>
28                     <td align='center'>".$records['set_instrument_id'][$i]."</td>
29                     <td>".$records['name'][$i]."</td>
30                     <td>".$records['table_name'][$i]."</td>
31                     <td><a href='".base_url('index.php/infoanalyst/
32                         exportdata/downloadCSV/'.
33                         $records['table_name'][$i])."'>Export data from this
34                         table</a></td>
35                 </tr>";
36             }
37             echo '</table>';
38         }
39         else
40             echo "No SET instrument uploaded.";
41     ?>
42 </div>
43 </body>

```

Listing 72: infoanalyst/set_instrument_list.php

```

1 <?php
2     if(strpos($_SERVER['PHP_SELF'], "index.php/admin") && !isset($isAdmin))
3         header('location:'.base_url('index.php/home'));

```



```

47         echo ' ">Change Student\'s Password</a>
48         <a href="'.base_url('/index.php/admin/audittrail').'"';
           if(strpos($_SERVER["PHP_SELF"],"audittrail")) echo
           'class="current"';
49         echo ' ">Audit Trail</a>
50     </div>
51
52     <div class="module-div">
53         <h1>Class Management</h1>
54         <a href="'.base_url('/index.php/admin/classmanagement').'"';
           if(strpos($_SERVER["PHP_SELF"],"admin/classmanagement")) echo
           'class="current"'; echo'>Download Classes</a>
55     </div>
56
57     <div class="module-div">
58         <h1>SET </h1>
59         <a href="'.base_url('/index.php/admin/SET').'"';
           if(strpos($_SERVER["PHP_SELF"],"admin/SET")) echo
           'class="current"'; echo'> Setup</a>
60         <a href="'.base_url('/index.php/admin/setinstrumentmanagement').'"';
           if(strpos($_SERVER["PHP_SELF"],"admin/setinstrument")) echo
           'class="current"'; echo'> SET Instrument Management</a>
61     </div>
62 </div>';
63 }
64 if(isset($isClerk))
65 {
66     echo '
67     <div class="module-div2">
68         <a href="" class="no-style"><h1>Clerk Utilities</h1></a>
69     </div>
70
71     <div>
72         <div class="module-div">
73             <h1>Class Management</h1>
74             <a href="'.base_url('/index.php/clerk/classmanagement').'"';
75             if(strpos($_SERVER["PHP_SELF"],"clerk/classmanagement")
76             && !strpos($_SERVER["PHP_SELF"],"clerk/classmanagement/view"))
77             echo 'class="current"'; echo ' ">Classes-Faculty Selection</a>
78             <a href="'.base_url('/index.php/clerk/studentaccount').'"';
79             if(strpos($_SERVER["PHP_SELF"],"clerk/studentaccount")) echo
           'class="current"'; echo'>List of Students</a>
           <a href="'.base_url('/index.php/clerk/setinstrumentassignment').'"';
           if(strpos($_SERVER["PHP_SELF"],"clerk/setinstrumentassignment")
           && strpos($_SERVER["PHP_SELF"],"set")) echo 'class="current"';
           echo ' ">SET Instrument Assignment</a>';
80         echo ' </div>';
81
82     if($SET['accounts_generated'])
83     {
84         echo '
85         <div class="module-div">
86             <h1>Evaluation Management</h1>
87             <a href="'.base_url('/index.php/clerk/evaluationmanagement/open')
           .'"'; if(strpos($_SERVER["PHP_SELF"],"open") ||
           strpos($_SERVER["PHP_SELF"],"close")) echo 'class="current"';
           echo ' ">Evaluation Mode</a>
88             <a href="'.base_url('/index.php/clerk/evaluationmanagement/status')
           .'"'; if(strpos($_SERVER["PHP_SELF"],"status")) echo
           'class="current"'; echo'>Evaluation Status</a>
89         </div>
90     ' ;
91     }
92     echo '
93     <div class="module-div">
94         <h1>Report Management </h1>
95         <a href="'.base_url('/index.php/clerk/reportmanagement/
           reportperclass').'"'; if(strpos($_SERVER["PHP_SELF"],
           "reportperclass")) echo 'class="current"'; echo'>Class
           Detailed Report</a>
96         <a href="'.base_url('/index.php/clerk/reportmanagement/
           facultysummarizedreport').'"';
97         if(strpos($_SERVER["PHP_SELF"],"faculty")) echo
98     '

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    'class="current"'; echo' ">Faculty Summarized Report</a>
99     </div>
100   </div>';
101 }
102 if(isset($isAnalyst))
103 {
104   echo '
105   <div class="module-div2">
106     <a class="no-style" href=""><h1>Info Security Analyst</h1></a>
107   </div>
108   <div>
109     <div class="module-div">
110       <h1>Export Data</h1>
111       <a href="'.base_url('/index.php/infoanalyst/exportdata').'";
           if(strpos($_SERVER["PHP_SELF"],"export")) echo 'class="current"';
           echo'>Archive Tables</a>
112     </div>
113   </div>
114   '
115 }
116 ?>
117 <div class="module-div2">
118   <a class="no-style" href=""><h1>Account Management</h1></a>
119 </div>
120 <div>
121   <div class="module-div">
122     <a href="<?=>base_url('/index.php/changepassword')?>" <?php
           if(strpos($_SERVER["PHP_SELF"],
123             "changepassword")) echo 'class="current'?>> Change password</a>
124     <a href="<?=>base_url('/index.php/login/logout')?>">Logout</a>
125   </div>
126 </div>
127 </div>
128 </div>

```

Listing 74: infoanalyst/header.php

```

1 <header>
2 <title>OSET 4.0</title>
3 <link href='<?=>base_url('css/style.css')?>' rel='stylesheet' type='text/css'>
4 <style>
5   table.SET td, th{
6     border: 1px solid rgba(0, 0, 0, 0.5);
7     border-color: #bbb;
8     padding: 8px 5px;
9   }
10  table.SET .narrow{
11    width: 70px;
12  }
13  table.SET tr:hover{
14    background-color: #CCCCFF;
15  }
16  table.SET #header:hover{
17    background-color: #FFF;
18  }
19  table.SET {
20    width:100%;
21  }
22  table.SETnoborder td, table.SETnoborder th{
23    border: 0;
24    width:100%;
25  }
26 </style>
27 <script>
28   function showPart(part){
29     document.body.scrollTop = document.documentElement.scrollTop = 0;
30     document.getElementById('part1').style.display = "none";
31     document.getElementById('part2').style.display = "none";
32     document.getElementById('part3').style.display = "none";
33     document.getElementById(part).style.display = "block";

```

```

34     }
35     function show(id){
36         document.getElementById(id).style.display = "block";
37     }
38     function hide(id){
39         document.getElementById(id).style.display = "none";
40     }
41     function showOther(value, id){
42         document.getElementById(id).style.display = "none";
43         if(value == "Others")
44             document.getElementById(id).style.display = "inline";
45         else if(value == "others")
46             if(document.getElementById("others").checked)
47                 document.getElementById(id).style.display = "inline";
48     }
49     function validateForm()
50     {
51         var name, radios;
52         var valid = true;
53         for(var i = 1; i <= 26; i++)
54         {
55             name = "part3a_"+i;
56             document.getElementById(name).style.backgroundColor = "#FFF";
57             radios = document.getElementsByName(name);
58             if(!(radios[0].checked || radios[1].checked || radios[2].checked ||
59                 radios[3].checked || radios[4].checked))
60             {
61                 valid = false;
62                 document.getElementById(name).style.backgroundColor = "#FFCCCC";
63             }
64         }
65         if(!valid)
66         {
67             document.getElementById('error_msg').style.display = "block";
68             document.body.scrollTop = document.documentElement.scrollTop = 0;
69         }
70         return valid;
71     }
72     </script>
73 </header>
74 <body>
75     <div class="wrapper">
76         <?php include('header.php'); ?>
77
78         <div class = "right">
79             <?php if($preview)
80                 echo '<h2>Preview of SET Instrument (UP Diliman SET)</h2>';
81             else
82                 {
83                     echo '<h2>Evaluate '. $class['subject'].' -
84                         '.ucwords(stritolower($class['instructor'])).'</h2>';
85                     echo '<form method="POST" onSubmit="return validateForm();" action="'
86                         .base_url('index.php/student/set/upset/submit/'.
87                             $class['oset_class_id']).' ">';
88                 }
89             ?>
90
91         <div id="part1">
92             <span style = "color:maroon;font-size:15pt;font-family:Times New
93                 Roman;font-weight:normal">
94                 <font color="grey">The Student</font><font color="grey"> | </font> The
95                 Course <font color="grey"> | </font> The Teacher <font color="grey">
96                 | </font>
97             </span>
98             <hr>
99             <br/>
100
101             <table class="SET">
102                 <tr id="header">
103                     <th colspan="2"></th>
104                     <th class="narrow">Very much</th>
105                     <th class="narrow">Much</th>

```



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100     <th class="narrow">Moderately</th>
101     <th class="narrow">Little</th>
102     <th class="narrow">Not at all</th>
103 </tr>
104 <tr>
105     <td>1.</td>
106     <td>How actively did you participate in class discussions and
107         activities? </td>
108     <td align="center"><input type="radio" name="part1_1"
109         value="1"></input></td>
110     <td align="center"><input type="radio" name="part1_1"
111         value="2"></input></td>
112     <td align="center"><input type="radio" name="part1_1"
113         value="3"></input></td>
114     <td align="center"><input type="radio" name="part1_1"
115         value="4"></input></td>
116     <td align="center"><input type="radio" name="part1_1"
117         value="5"></input></td>
118 </tr>
119 <tr>
120     <td>2.</td>
121     <td>Did you learn new ideas from your interactions with your teacher
122         and classmates? </td>
123     <td align="center"><input type="radio" name="part1_2"
124         value="1"></input></td>
125     <td align="center"><input type="radio" name="part1_2"
126         value="2"></input></td>
127     <td align="center"><input type="radio" name="part1_2"
128         value="3"></input></td>
129     <td align="center"><input type="radio" name="part1_2"
130         value="4"></input></td>
131     <td align="center"><input type="radio" name="part1_2"
132         value="5"></input></td>
133 </tr>
134 <tr>
135     <td>3.</td>
136     <td>How receptive were you to new ideas presented by your teacher and
137         classmates? </td>
138     <td align="center"><input type="radio" name="part1_3"
139         value="1"></input></td>
140     <td align="center"><input type="radio" name="part1_3"
141         value="2"></input></td>
142     <td align="center"><input type="radio" name="part1_3"
143         value="3"></input></td>
144     <td align="center"><input type="radio" name="part1_3"
145         value="4"></input></td>
146     <td align="center"><input type="radio" name="part1_3"
147         value="5"></input></td>
148 </tr>
149 <tr>
150     <td>4.</td>
151     <td>How much effort did you give to meeting the requirements in this
152         course? (eg. term papers, reports, assigned readings) </td>
153     <td align="center"><input type="radio" name="part1_4"
154         value="1"></input></td>
155     <td align="center"><input type="radio" name="part1_4"
156         value="2"></input></td>
157     <td align="center"><input type="radio" name="part1_4"
158         value="3"></input></td>
159     <td align="center"><input type="radio" name="part1_4"
160         value="4"></input></td>
161     <td align="center"><input type="radio" name="part1_4"
162         value="5"></input></td>
163 </tr>
164 <tr>
165     <td>5.</td>
166     <td>Do you feel that you have performed well in this course? </td>
167     <td align="center"><input type="radio" name="part1_5"
168         value="1"></input></td>
169     <td align="center"><input type="radio" name="part1_5"
170         value="2"></input></td>
171     <td align="center"><input type="radio" name="part1_5"
172         value="3"></input></td>

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146         <td align="center"><input type="radio" name="part1_5"
147         value="4"></input></td>
148     </tr>
149     <tr>
150         <td>6.</td>
151         <td>Have your expectations of this course been met? </td>
152         <td align="center"><input type="radio" name="part1_6"
153         value="1"></input></td>
154         <td align="center"><input type="radio" name="part1_6"
155         value="2"></input></td>
156         <td align="center"><input type="radio" name="part1_6"
157         value="3"></input></td>
158         <td align="center"><input type="radio" name="part1_6"
159         value="4"></input></td>
160         <td align="center"><input type="radio" name="part1_6"
161         value="5"></input></td>
162     </tr>
163     <tr id="header">
164         <th colspan="2"></th>
165         <th>0</th>
166         <th>1</th>
167         <th>2-3</th>
168         <th>4-5</th>
169         <th>6</th>
170     </tr>
171     <tr>
172         <td>7.</td>
173         <td>How many times have you been late*? </td>
174         <td align="center"><input type="radio" name="part1_7"
175         value="0"></input></td>
176         <td align="center"><input type="radio" name="part1_7"
177         value="1"></input></td>
178         <td align="center"><input type="radio" name="part1_7"
179         value="2-3"></input></td>
180         <td align="center"><input type="radio" name="part1_7"
181         value="4-5"></input></td>
182         <td align="center"><input type="radio" name="part1_7"
183         value="6"></input></td>
184     </tr>
185     <tr>
186         <td>8.</td>
187         <td>How many class meetings have you missed? </td>
188         <td align="center"><input type="radio" name="part1_8"
189         value="0"></input></td>
190         <td align="center"><input type="radio" name="part1_8"
191         value="1"></input></td>
192         <td align="center"><input type="radio" name="part1_8"
193         value="2-3"></input></td>
194         <td align="center"><input type="radio" name="part1_8"
195         value="4-5"></input></td>
196         <td align="center"><input type="radio" name="part1_8"
197         value="6"></input></td>
198     </tr>
199     <tr>
200         <td>9.</td>
201         <td colspan="6">What final grade will you give yourself in this
202         course?
203         <select name="part1_9">
204             <option value="NR"></option>
205             <option>1.0</option>
206             <option>1.25</option>
207             <option>1.5</option>
208             <option>1.75</option>
209             <option>2.0</option>
210             <option>2.25</option>
211             <option>2.5</option>
212             <option>2.75</option>
213             <option>3.0</option>
214             <option>INC</option>
215         </select>

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201         </td>
202     </tr>
203 </table>
204
205 <br/>
206 <span style="font-size:13px">*Per UP regulations, <i>late</i> is defined
    as arriving more than 10 minutes after the scheduled time.</span>
207
208 <br/><br/>
209 <input type="button" value="Next Part ">
    onClick="showPart('part2');"></input>
210 </div>
211
212 <div id="part2" style="display:none">
213     <span style="color:maroon;font-size:15pt;font-family:Times New
    Roman;font-weight:normal">
214     The Student<font color="grey"> | </font> <font color="grey">The
    Course</font><font color="grey"> | </font> The Teacher <font
    color="grey"> | </font>
215 </span>
216 <hr>
217 <br/>
218
219 <table class="SET">
220     <tr id="header">
221         <th colspan="2" align="left">Part A.</th>
222         <th class="narrow">Strongly Agree</th>
223         <th class="narrow">Agree</th>
224         <th class="narrow">Disagree</th>
225         <th class="narrow">Strongly Disagree</th>
226     </tr>
227     <tr>
228         <td>1.</td>
229         <td>This course stimulates me to study beyond the lessons assigned.
            </td>
230         <td align="center"><input type="radio" name="part2a_1"
            value="1"></input></td>
231         <td align="center"><input type="radio" name="part2a_1"
            value="2"></input></td>
232         <td align="center"><input type="radio" name="part2a_1"
            value="3"></input></td>
233         <td align="center"><input type="radio" name="part2a_1"
            value="4"></input></td>
234     </tr>
235     <tr>
236         <td>2.</td>
237         <td>This course has developed in me a greater sense of responsibility
            (i.e. self-reliance, self discipline, independent study) </td>
238         <td align="center"><input type="radio" name="part2a_2"
            value="1"></input></td>
239         <td align="center"><input type="radio" name="part2a_2"
            value="2"></input></td>
240         <td align="center"><input type="radio" name="part2a_2"
            value="3"></input></td>
241         <td align="center"><input type="radio" name="part2a_2"
            value="4"></input></td>
242     </tr>
243     <tr>
244         <td>3.</td>
245         <td>I have worked more conscientiously in this course more than in
            most other courses. </td>
246         <td align="center"><input type="radio" name="part2a_3"
            value="1"></input></td>
247         <td align="center"><input type="radio" name="part2a_3"
            value="2"></input></td>
248         <td align="center"><input type="radio" name="part2a_3"
            value="3"></input></td>
249         <td align="center"><input type="radio" name="part2a_3"
            value="4"></input></td>
250     </tr>
251     <tr>
252         <td>4.</td>
253         <td>Even if this course were not required, it would still be
254

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422         <td align="center"><input type="radio" name="part3a_3"
423         value="1"></input></td>
424         <td align="center"><input type="radio" name="part3a_3"
425         value="2"></input></td>
426         <td align="center"><input type="radio" name="part3a_3"
427         value="3"></input></td>
428         <td align="center"><input type="radio" name="part3a_3"
429         value="4"></input></td>
430         <td align="center"><input type="radio" name="part3a_3"
431         value="0"></input></td>
432     </tr>
433     <tr id="part3a_4">
434         <td>4.</td>
435         <td>Relates the course to other fields and current issues/concerns.
436         <font color="red"> *</font></td>
437         <td align="center"><input type="radio" name="part3a_4"
438         value="1"></input></td>
439         <td align="center"><input type="radio" name="part3a_4"
440         value="2"></input></td>
441         <td align="center"><input type="radio" name="part3a_4"
442         value="3"></input></td>
443         <td align="center"><input type="radio" name="part3a_4"
444         value="4"></input></td>
445         <td align="center"><input type="radio" name="part3a_4"
446         value="0"></input></td>
447     </tr>
448     <tr id="part3a_5">
449         <td>5.</td>
450         <td>Fosters a stimulating atmosphere which encourages students to
451         participate in class discussions/activities. <font color="red">
452         *</font></td>
453         <td align="center"><input type="radio" name="part3a_5"
454         value="1"></input></td>
455         <td align="center"><input type="radio" name="part3a_5"
456         value="2"></input></td>
457         <td align="center"><input type="radio" name="part3a_5"
458         value="3"></input></td>
459         <td align="center"><input type="radio" name="part3a_5"
460         value="4"></input></td>
461         <td align="center"><input type="radio" name="part3a_5"
462         value="0"></input></td>
463     </tr>
464     <tr id="part3a_6">
465         <td>6.</td>
466         <td>Stimulates the students to study more about the subject. <font
467         color="red"> *</font></td>
468         <td align="center"><input type="radio" name="part3a_6"
469         value="1"></input></td>
470         <td align="center"><input type="radio" name="part3a_6"
471         value="2"></input></td>
472         <td align="center"><input type="radio" name="part3a_6"
473         value="3"></input></td>
474         <td align="center"><input type="radio" name="part3a_6"
475         value="4"></input></td>
476         <td align="center"><input type="radio" name="part3a_6"
477         value="0"></input></td>
478     </tr>
479     <tr id="part3a_7">
480         <td>7.</td>
481         <td>Does not encourage studetns to do their best. <font color="red">
482         *</font></td>
483         <td align="center"><input type="radio" name="part3a_7"
484         value="4"></input></td>
485         <td align="center"><input type="radio" name="part3a_7"
486         value="3"></input></td>
487         <td align="center"><input type="radio" name="part3a_7"
488         value="2"></input></td>
489         <td align="center"><input type="radio" name="part3a_7"
490         value="1"></input></td>
491         <td align="center"><input type="radio" name="part3a_7"
492         value="0"></input></td>
493     </tr>
494     <tr id="part3a_8">

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```

465         <td>8.</td>
466         <td>Speaks clearly and audibly. <font color="red"> *</font></td>
467         <td align="center"><input type="radio" name="part3a_8"
468             value="1"></input></td>
469         <td align="center"><input type="radio" name="part3a_8"
470             value="2"></input></td>
471         <td align="center"><input type="radio" name="part3a_8"
472             value="3"></input></td>
473         <td align="center"><input type="radio" name="part3a_8"
474             value="4"></input></td>
475         <td align="center"><input type="radio" name="part3a_8"
476             value="0"></input></td>
477     </tr>
478     <tr id="part3a_9">
479         <td>9.</td>
480         <td>Uses appropriate teaching techniques and instructional materials.
481             <font color="red"> *</font></td>
482         <td align="center"><input type="radio" name="part3a_9"
483             value="1"></input></td>
484         <td align="center"><input type="radio" name="part3a_9"
485             value="2"></input></td>
486         <td align="center"><input type="radio" name="part3a_9"
487             value="3"></input></td>
488         <td align="center"><input type="radio" name="part3a_9"
489             value="4"></input></td>
490         <td align="center"><input type="radio" name="part3a_9"
491             value="0"></input></td>
492     </tr>
493     <tr id="part3a_10">
494         <td>10.</td>
495         <td>Does not respect students' ideas and viewpoints. <font
496             color="red"> *</font></td>
497         <td align="center"><input type="radio" name="part3a_10"
498             value="4"></input></td>
499         <td align="center"><input type="radio" name="part3a_10"
500             value="3"></input></td>
501         <td align="center"><input type="radio" name="part3a_10"
502             value="2"></input></td>
503         <td align="center"><input type="radio" name="part3a_10"
504             value="1"></input></td>
505         <td align="center"><input type="radio" name="part3a_10"
506             value="0"></input></td>
507     </tr>
508     <tr id="part3a_11">
509         <td>11.</td>
510         <td>Explains concepts again when he/she notes that the concept is not
511             well understood. <font color="red"> *</font></td>
512         <td align="center"><input type="radio" name="part3a_11"
513             value="1"></input></td>
514         <td align="center"><input type="radio" name="part3a_11"
515             value="2"></input></td>
516         <td align="center"><input type="radio" name="part3a_11"
517             value="3"></input></td>
518         <td align="center"><input type="radio" name="part3a_11"
519             value="4"></input></td>
520         <td align="center"><input type="radio" name="part3a_11"
521             value="0"></input></td>
522     </tr>
523     <tr id="part3a_12">
524         <td>12.</td>
525         <td>Identifies and stresses important points. <font color="red">
526             *</font> </td>
527         <td align="center"><input type="radio" name="part3a_12"
528             value="1"></input></td>
529         <td align="center"><input type="radio" name="part3a_12"
530             value="2"></input></td>
531         <td align="center"><input type="radio" name="part3a_12"
532             value="3"></input></td>
533         <td align="center"><input type="radio" name="part3a_12"
534             value="4"></input></td>
535         <td align="center"><input type="radio" name="part3a_12"
536             value="0"></input></td>
537     </tr>

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509 <tr id="part3a_13">
510 <td>13.</td>
511 <td>Demonstrates thorough and broad knowledge of the subject of the
      course. <font color="red"> *</font></td>
512 <td align="center"><input type="radio" name="part3a_13"
      value="1"></input></td>
513 <td align="center"><input type="radio" name="part3a_13"
      value="2"></input></td>
514 <td align="center"><input type="radio" name="part3a_13"
      value="3"></input></td>
515 <td align="center"><input type="radio" name="part3a_13"
      value="4"></input></td>
516 <td align="center"><input type="radio" name="part3a_13"
      value="0"></input></td>
517 </tr>
518 <tr id="part3a_14">
519 <td>14.</td>
520 <td>Uses evaluation measures and tests which adequately sample what
      was covered in the course. <font color="red"> *</font></td>
521 <td align="center"><input type="radio" name="part3a_14"
      value="1"></input></td>
522 <td align="center"><input type="radio" name="part3a_14"
      value="2"></input></td>
523 <td align="center"><input type="radio" name="part3a_14"
      value="3"></input></td>
524 <td align="center"><input type="radio" name="part3a_14"
      value="4"></input></td>
525 <td align="center"><input type="radio" name="part3a_14"
      value="0"></input></td>
526 </tr>
527 <tr id="part3a_15">
528 <td>15.</td>
529 <td>Gives constructive criticism of students' works. <font
      color="red"> *</font></td>
530 <td align="center"><input type="radio" name="part3a_15"
      value="1"></input></td>
531 <td align="center"><input type="radio" name="part3a_15"
      value="2"></input></td>
532 <td align="center"><input type="radio" name="part3a_15"
      value="3"></input></td>
533 <td align="center"><input type="radio" name="part3a_15"
      value="4"></input></td>
534 <td align="center"><input type="radio" name="part3a_15"
      value="0"></input></td>
535 </tr>
536 <tr id="part3a_16">
537 <td>16.</td>
538 <td>Is firm and consistent; strict but reasonable in disciplining
      students. <font color="red"> *</font></td>
539 <td align="center"><input type="radio" name="part3a_16"
      value="1"></input></td>
540 <td align="center"><input type="radio" name="part3a_16"
      value="2"></input></td>
541 <td align="center"><input type="radio" name="part3a_16"
      value="3"></input></td>
542 <td align="center"><input type="radio" name="part3a_16"
      value="4"></input></td>
543 <td align="center"><input type="radio" name="part3a_16"
      value="0"></input></td>
544 </tr>
545 <tr id="part3a_17">
546 <td>17.</td>
547 <td>Does not invite questions from students. <font color="red">
      *</font></td>
548 <td align="center"><input type="radio" name="part3a_17"
      value="4"></input></td>
549 <td align="center"><input type="radio" name="part3a_17"
      value="3"></input></td>
550 <td align="center"><input type="radio" name="part3a_17"
      value="2"></input></td>
551 <td align="center"><input type="radio" name="part3a_17"
      value="1"></input></td>
552 <td align="center"><input type="radio" name="part3a_17"

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        value="0"></input></td>
553 </tr>
554 <tr id="part3a_18">
555 <td>18.</td>
556 <td>Treats students tactfully; does not embarrass them. <font
        color="red"> *</font></td>
557 <td align="center"><input type="radio" name="part3a_18"
        value="1"></input></td>
558 <td align="center"><input type="radio" name="part3a_18"
        value="2"></input></td>
559 <td align="center"><input type="radio" name="part3a_18"
        value="3"></input></td>
560 <td align="center"><input type="radio" name="part3a_18"
        value="4"></input></td>
561 <td align="center"><input type="radio" name="part3a_18"
        value="0"></input></td>
562 </tr>
563 <tr id="part3a_19">
564 <td>19.</td>
565 <td>Does not invite through behaviour and general appearance. <font
        color="red"> *</font></td>
566 <td align="center"><input type="radio" name="part3a_19"
        value="4"></input></td>
567 <td align="center"><input type="radio" name="part3a_19"
        value="3"></input></td>
568 <td align="center"><input type="radio" name="part3a_19"
        value="2"></input></td>
569 <td align="center"><input type="radio" name="part3a_19"
        value="1"></input></td>
570 <td align="center"><input type="radio" name="part3a_19"
        value="0"></input></td>
571 </tr>
572 <tr id="part3a_20">
573 <td>20.</td>
574 <td>Explains the grading procedure and standards clearly and applies
        them. <font color="red"> *</font></td>
575 <td align="center"><input type="radio" name="part3a_20"
        value="1"></input></td>
576 <td align="center"><input type="radio" name="part3a_20"
        value="2"></input></td>
577 <td align="center"><input type="radio" name="part3a_20"
        value="3"></input></td>
578 <td align="center"><input type="radio" name="part3a_20"
        value="4"></input></td>
579 <td align="center"><input type="radio" name="part3a_20"
        value="0"></input></td>
580 </tr>
581 <tr id="part3a_21">
582 <td>21.</td>
583 <td>Admits errors in the presentation of subject matter, and in
        evaluation. <font color="red"> *</font></td>
584 <td align="center"><input type="radio" name="part3a_21"
        value="1"></input></td>
585 <td align="center"><input type="radio" name="part3a_21"
        value="2"></input></td>
586 <td align="center"><input type="radio" name="part3a_21"
        value="3"></input></td>
587 <td align="center"><input type="radio" name="part3a_21"
        value="4"></input></td>
588 <td align="center"><input type="radio" name="part3a_21"
        value="0"></input></td>
589 </tr>
590 <tr id="part3a_22">
591 <td>22.</td>
592 <td>Answers students' questions adequately. <font color="red">
        *</font></td>
593 <td align="center"><input type="radio" name="part3a_22"
        value="1"></input></td>
594 <td align="center"><input type="radio" name="part3a_22"
        value="2"></input></td>
595 <td align="center"><input type="radio" name="part3a_22"
        value="3"></input></td>
596 <td align="center"><input type="radio" name="part3a_22"

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597         value="4"></input></td>
598     <td align="center"><input type="radio" name="part3a_22"
599         value="0"></input></td>
600 </tr>
601 <tr id="part3a_23">
602     <td>23.</td>
603     <td>Is not available for consultation. <font color="red">
604         *</font></td>
605     <td align="center"><input type="radio" name="part3a_23"
606         value="4"></input></td>
607     <td align="center"><input type="radio" name="part3a_23"
608         value="3"></input></td>
609     <td align="center"><input type="radio" name="part3a_23"
610         value="2"></input></td>
611     <td align="center"><input type="radio" name="part3a_23"
612         value="1"></input></td>
613     <td align="center"><input type="radio" name="part3a_23"
614         value="0"></input></td>
615 </tr>
616 <tr id="part3a_24">
617     <td>24.</td>
618     <td>Is able to make students comprehend and appreciate complex ideas.
619         <font color="red"> *</font></td>
620     <td align="center"><input type="radio" name="part3a_24"
621         value="1"></input></td>
622     <td align="center"><input type="radio" name="part3a_24"
623         value="2"></input></td>
624     <td align="center"><input type="radio" name="part3a_24"
625         value="3"></input></td>
626     <td align="center"><input type="radio" name="part3a_24"
627         value="4"></input></td>
628     <td align="center"><input type="radio" name="part3a_24"
629         value="0"></input></td>
630 </tr>
631 <tr id="part3a_25">
632     <td>25.</td>
633     <td>Gives unreasonable course requirements and assignments. <font
634         color="red"> *</font></td>
635     <td align="center"><input type="radio" name="part3a_25"
636         value="4"></input></td>
637     <td align="center"><input type="radio" name="part3a_25"
638         value="3"></input></td>
639     <td align="center"><input type="radio" name="part3a_25"
640         value="2"></input></td>
641     <td align="center"><input type="radio" name="part3a_25"
642         value="1"></input></td>
643     <td align="center"><input type="radio" name="part3a_25"
644         value="0"></input></td>
645 </tr>
646 <tr id="part3a_26">
647     <td>26.</td>
648     <td>Uses comprehensive, up-to-date and relevant reading list. <font
649         color="red"> *</font></td>
650     <td align="center"><input type="radio" name="part3a_26"
651         value="1"></input></td>
652     <td align="center"><input type="radio" name="part3a_26"
653         value="2"></input></td>
654     <td align="center"><input type="radio" name="part3a_26"
655         value="3"></input></td>
656     <td align="center"><input type="radio" name="part3a_26"
657         value="4"></input></td>
658     <td align="center"><input type="radio" name="part3a_26"
659         value="0"></input></td>
660 </tr>
661 </table>
662 <br/><br/>
663 <table class="SET">
664     <tr id="header">
665         <th align="left">Part B.</th>
666     </tr>
667     <tr>
668         <td>1. How many times has the teacher been late?

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644         <select name="part3b_1">
645             <option value="NR"></option>
646             <option>0</option>
647             <option>1</option>
648             <option>2-3</option>
649             <option>4-5</option>
650             <option>6</option>
651         </select>
652     </td>
653 </tr>
654 <tr>
655     <td>2. How many class meetings has the teacher missed?
656     <select name="part3b_2">
657         <option value="NR"></option>
658         <option>0</option>
659         <option>1</option>
660         <option>2-3</option>
661         <option>4-5</option>
662         <option>6</option>
663     </select>
664 </td>
665 </tr>
666 <tr>
667     <td>3. The teacher generally dismisses the class
668     <select name="part3b_3">
669         <option value="NR"></option>
670         <option>Too early</option>
671         <option>On time</option>
672         <option>Late</option>
673         <option>Very late</option>
674     </select>
675 </td>
676 </tr>
677 <tr>
678     <td>4. What are the bases used by teacher for grading?<br /><br />
679     &nbsp;&nbsp;&nbsp;&nbsp;<input type="checkbox"
680         name="recitation">Recitation</input><br />
681     &nbsp;&nbsp;&nbsp;&nbsp;<input type="checkbox"
682         name="quizzes">Quizzes</input><br />
683     &nbsp;&nbsp;&nbsp;&nbsp;<input type="checkbox" name="midterms">Midterm
684         Exams</input><br />
685     &nbsp;&nbsp;&nbsp;&nbsp;<input type="checkbox" name="finals">Final
686         Exams</input><br />
687     &nbsp;&nbsp;&nbsp;&nbsp;<input type="checkbox"
688         name="reports">Reports</input><br />
689     &nbsp;&nbsp;&nbsp;&nbsp;<input type="checkbox"
690         name="papers">Papers</input><br />
691     &nbsp;&nbsp;&nbsp;&nbsp;<input type="checkbox" name="others" id="others"
692         onClick="showOther('others', 'part3_Other')">Others</input>
693     <span style="display:none;" id="part3_Other">
694     &nbsp;&nbsp;&nbsp;&nbsp;<input type="text" placeholder="Please
695         specify." name="part3b_4Other"></input>
696     </span>
697     <br />
698     <br />
699 </td>
700 </tr>
701 <tr>
702     <td>5. How soon does the teacher post results or return corrected
703     assignments, quizzes, exams, papers, etc.?
704     <select name="part3b_5">
705         <option value="NR"></option>
706         <option>One week</option>
707         <option>Two weeks</option>
708         <option>One month</option>
709         <option>More than one month</option>
710         <option>Never</option>
711     </select>
712 </td>
713 </tr>
714 <tr>
715     <td>6. Is the teacher fair in giving grades?
716     <select name="part3b_6_1">

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120 <br/><br/>
121 </td>
122 </tr>
123
124 <tr>
125 <td>7.</td>
126 <td>Have many times have you been late?</td>
127 <td><?php echo $part1_7['NR']; ?></td>
128 <td><?php $sum = 0; $count = 0; echo $part1_7['0']; $sum+= $part1_7['0'];
    $count+=$part1_7['0']; ?></td>
129 <td><?php echo $part1_7['1']; $sum+= $part1_7['1']*2;
    $count+=$part1_7['1'];?></td>
130 <td><?php echo $part1_7['2-3']; $sum+= $part1_7['2-3']*3;
    $count+=$part1_7['2-3'];?></td>
131 <td><?php echo $part1_7['4-5']; $sum+= $part1_7['4-5']*4;
    $count+=$part1_7['4-5'];?></td>
132 <td><?php echo $part1_7['6']; $sum+= $part1_7['6']*5;
    $count+=$part1_7['6'];?></td>
133 <td><?php if($count != 0) echo round($ave1[7] = $sum/$count, 4); else echo
    0;?></td>
134 </tr>
135 <tr>
136 <td>8.</td>
137 <td>How many class meetings have you missed?</td>
138 <td><?php echo $part1_8['NR']; ?></td>
139 <td><?php $sum = 0; $count = 0; echo $part1_8['0']; $sum+= $part1_8['0'];
    $count+=$part1_8['0']; ?></td>
140 <td><?php echo $part1_8['1']; $sum+= $part1_8['1']*2;
    $count+=$part1_8['1'];?></td>
141 <td><?php echo $part1_8['2-3']; $sum+= $part1_8['2-3']*3;
    $count+=$part1_8['2-3'];?></td>
142 <td><?php echo $part1_8['4-5']; $sum+= $part1_8['4-5']*4;
    $count+=$part1_8['4-5'];?></td>
143 <td><?php echo $part1_8['6']; $sum+= $part1_8['6']*5;
    $count+=$part1_8['6'];?></td>
144 <td><?php if($count != 0) echo round($ave1[8] = $sum/$count, 4); else echo
    0;?></td>
145 </tr>
146 </table>
147
148 <br/>
149 <table class="records">
150 <tr>
151 <td colspan="12">9. What final grade will you give yourself in this
    course?</td>
152 </tr>
153 <tr>
154 <td>NR</td>
155 <td>1.00</td>
156 <td>1.25</td>
157 <td>1.50</td>
158 <td>1.75</td>
159 <td>2.00</td>
160 <td>2.25</td>
161 <td>2.50</td>
162 <td>2.75</td>
163 <td>3.00</td>
164 <td>INC</td>
165 <td>AVE</td>
166 </tr>
167 <tr>
168 <td><?php echo $part1_9['NR']; ?></td>
169 <td><?php $sum = 0; $count = 0; echo $part1_9['1.0']; $sum+=
    $part1_9['1.0']; $count+=$part1_9['1.0']; ?></td>
170 <td><?php echo $part1_9['1.25']; $sum+= $part1_9['1.25']*1.25;
    $count+=$part1_9['1.25'];?></td>
171 <td><?php echo $part1_9['1.5']; $sum+= $part1_9['1.5']*1.5;
    $count+=$part1_9['1.5'];?></td>
172 <td><?php echo $part1_9['1.75']; $sum+= $part1_9['1.75']*1.75;
    $count+=$part1_9['1.75'];?></td>
173 <td><?php echo $part1_9['2.0']; $sum+= $part1_9['2.0']*2.0;
    $count+=$part1_9['2.0'];?></td>
174 <td><?php echo $part1_9['2.25']; $sum+= $part1_9['2.25']*2.25;

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175         $count+=$part1_9['2.25'];?></td>
176     <td><?php echo $part1_9['2.5']; $sum+= $part1_9['2.5']*2.5;
        $count+=$part1_9['2.5'];?></td>
177     <td><?php echo $part1_9['2.75']; $sum+= $part1_9['2.75']*2.75;
        $count+=$part1_9['2.75'];?></td>
178     <td><?php echo $part1_9['3.0']; $sum+= $part1_9['3.0']*3.0;
        $count+=$part1_9['3.0'];?></td>
179     <td><?php echo $part1_9['INC']; $sum+= $part1_9['INC']*4.0;
        $count+=$part1_9['INC'];?></td>
180     <td><?php if($count != 0) echo round($ave1[9] = $sum/$count, 4); else echo
        0;?></td>
181 </tr>
182 </table>
183 <br/>
184 <div align="right">Weighted Average (Part I): <?php if(isset($ave1)){if($sum =
        array_sum($ave1)) echo round($sum/count($ave1), 4); else echo 0;} else echo
        0; ?></div>
185 <br/><br/>
186 <br/><b>PART II-A. THE COURSE</b>
187 <br/><br/>
188 <table class="records">
189     <tr>
190         <td colspan="8"><br/>
191         &nbsp; &nbsp; &nbsp; 0 - [No Response] &nbsp; &nbsp; &nbsp; 1 - [Strongly Agree] &nbsp; &nbsp; &nbsp;
192         &nbsp; &nbsp; &nbsp; 2 - [Agree] &nbsp; &nbsp; &nbsp; 3 - [Disagree] &nbsp; &nbsp; &nbsp; 4 - [Strongly
            Disagree]
193     <br/><br/>
194     </td>
195     </tr>
196     <tr>
197         <td colspan="2"></td>
198         <td>0</td>
199         <td>1</td>
200         <td>2</td>
201         <td>3</td>
202         <td>4</td>
203         <td>AVE</td>
204     </tr>
205     <tr>
206     <tr>
207         <td width="2%">1.</td>
208         <td>This course stimulates me to study beyond the lessons assigned.</td>
209         <td width="5%"><?php echo $part2a_1[0]; ?></td>
210         <td width="5%"><?php $sum = 0; $count = 0; echo $part2a_1['1']; $sum+=
            $part2a_1['1']; $count+=$part2a_1['1']; ?></td>
211         <td width="5%"><?php echo $part2a_1['2']; $sum+= $part2a_1['2']*2;
            $count+=$part2a_1['2'];?></td>
212         <td width="5%"><?php echo $part2a_1['3']; $sum+= $part2a_1['3']*3;
            $count+=$part2a_1['3'];?></td>
213         <td width="5%"><?php echo $part2a_1['4']; $sum+= $part2a_1['4']*4;
            $count+=$part2a_1['4'];?></td>
214         <td width="10%"><?php if($count != 0) echo round($ave2[1] = $sum/$count,
            4); else echo 0;?></td>
215     </tr>
216     <tr>
217     <tr>
218         <td>2.</td>
219         <td>This course has developed in me a greater sense of responsibility (i.e.
            self-reliance, self discipline, independent study)</td>
220         <td><?php echo $part2a_2[0]; ?></td>
221         <td><?php $sum = 0; $count = 0; echo $part2a_2['1']; $sum+= $part2a_2['1'];
            $count+=$part2a_2['1']; ?></td>
222         <td><?php echo $part2a_2['2']; $sum+= $part2a_2['2']*2;
            $count+=$part2a_2['2'];?></td>
223         <td><?php echo $part2a_2['3']; $sum+= $part2a_2['3']*3;
            $count+=$part2a_2['3'];?></td>
224         <td><?php echo $part2a_2['4']; $sum+= $part2a_2['4']*4;
            $count+=$part2a_2['4'];?></td>
225         <td><?php if($count != 0) echo round($ave2[2] = $sum/$count, 4); else echo
            0;?></td>
226     </tr>

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227 </tr>
228
229 <tr>
230 <td>3.</td>
231 <td>I have worked more conscientiously in this course more than in most
    other courses.</td>
232 <td><?php echo $part2a_3[0]; ?></td>
233 <td><?php $sum = 0; $count = 0; echo $part2a_3['1']; $sum+= $part2a_3['1'];
    $count+= $part2a_3['1']; ?></td>
234 <td><?php echo $part2a_3['2']; $sum+= $part2a_3['2']*2;
    $count+= $part2a_3['2']; ?></td>
235 <td><?php echo $part2a_3['3']; $sum+= $part2a_3['3']*3;
    $count+= $part2a_3['3']; ?></td>
236 <td><?php echo $part2a_3['4']; $sum+= $part2a_3['4']*4;
    $count+= $part2a_3['4']; ?></td>
237 <td><?php if($count != 0) echo round($ave2[3] = $sum/$count, 4); else echo
    0; ?></td>
238 </tr>
239
240 <tr>
241 <td>4.</td>
242 <td>Even if this course were not required, it would still be worthwhile
    taking it.</td>
243 <td><?php echo $part2a_4[0]; ?></td>
244 <td><?php $sum = 0; $count = 0; echo $part2a_4['1']; $sum+= $part2a_4['1'];
    $count+= $part2a_4['1']; ?></td>
245 <td><?php echo $part2a_4['2']; $sum+= $part2a_4['2']*2;
    $count+= $part2a_4['2']; ?></td>
246 <td><?php echo $part2a_4['3']; $sum+= $part2a_4['3']*3;
    $count+= $part2a_4['3']; ?></td>
247 <td><?php echo $part2a_4['4']; $sum+= $part2a_4['4']*4;
    $count+= $part2a_4['4']; ?></td>
248 <td><?php if($count != 0) echo round($ave2[4] = $sum/$count, 4); else echo
    0; ?></td>
249 </tr>
250
251 <tr>
252 <td>5.</td>
253 <td>I am fully satisfied with the way this course was
    handled/conducted.</td>
254 <td><?php echo $part2a_5[0]; ?></td>
255 <td><?php $sum = 0; $count = 0; echo $part2a_5['1']; $sum+= $part2a_5['1'];
    $count+= $part2a_5['1']; ?></td>
256 <td><?php echo $part2a_5['2']; $sum+= $part2a_5['2']*2;
    $count+= $part2a_5['2']; ?></td>
257 <td><?php echo $part2a_5['3']; $sum+= $part2a_5['3']*3;
    $count+= $part2a_5['3']; ?></td>
258 <td><?php echo $part2a_5['4']; $sum+= $part2a_5['4']*4;
    $count+= $part2a_5['4']; ?></td>
259 <td><?php if($count != 0) echo round($ave2[5] = $sum/$count, 4); else echo
    0; ?></td>
260 </tr>
261
262 <tr>
263 <td>6.</td>
264 <td>This course stimulates me to think creatively.</td>
265 <td><?php echo $part2a_6[0]; ?></td>
266 <td><?php $sum = 0; $count = 0; echo $part2a_6['1']; $sum+= $part2a_6['1'];
    $count+= $part2a_6['1']; ?></td>
267 <td><?php echo $part2a_6['2']; $sum+= $part2a_6['2']*2;
    $count+= $part2a_6['2']; ?></td>
268 <td><?php echo $part2a_6['3']; $sum+= $part2a_6['3']*3;
    $count+= $part2a_6['3']; ?></td>
269 <td><?php echo $part2a_6['4']; $sum+= $part2a_6['4']*4;
    $count+= $part2a_6['4']; ?></td>
270 <td><?php if($count != 0) echo round($ave2[6] = $sum/$count, 4); else echo
    0; ?></td>
271 </tr>
272
273 <tr>
274 <td>7.</td>
275 <td>This course develops critical thinking.</td>
276 <td><?php echo $part2a_7[0]; ?></td>

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277     <td><?php $sum = 0; $count = 0; echo $part2a_7['1']; $sum+= $part2a_7['1'];
          $count+=$part2a_7['1']; ?></td>
278     <td><?php echo $part2a_7['2']; $sum+= $part2a_7['2']*2;
          $count+=$part2a_7['2'];?></td>
279     <td><?php echo $part2a_7['3']; $sum+= $part2a_7['3']*3;
          $count+=$part2a_7['3'];?></td>
280     <td><?php echo $part2a_7['4']; $sum+= $part2a_7['4']*4;
          $count+=$part2a_7['4'];?></td>
281     <td><?php if($count != 0) echo round($ave2[7] = $sum/$count, 4); else echo
          0;?></td>
282     </tr>
283 </table>
284
285 <br/>
286 <div align="right">Weighted Average (Part II-A): <?php if(isset($ave2)){if($sum
          = array_sum($ave2)) echo round($sum/count($ave2), 4); else echo 0;} else
          echo 0; ?></div>
287 <br/><br/>
288
289 <b>PART II-B. </b>
290
291 <br/><br/>
292 <table class="records">
293     <tr>
294         <td></td>
295         <td>Yes</td>
296         <td>No</td>
297     </tr>
298     <tr>
299         <td>1. Does the class has a syllabus or expanded outline for the
          course?</td>
300         <td width="6%"><?php echo $part2b_1['yes'];?></td>
301         <td width="6%"><?php echo $part2b_1['no'];?></td>
302     </tr>
303     <tr>
304         <td>&nbsp; &nbsp; &nbsp; 1.1 Have there been departures from the syllabus?</td>
305         <td><?php echo $part2b_1_1['yes'];?></td>
306         <td><?php echo $part2b_1_1['no'];?></td>
307     </tr>
308     <tr>
309         <td>&nbsp; &nbsp; &nbsp; &nbsp; &nbsp; 1.1.2 Do you think the departure(s) from
          the syllabus were necessary?</td>
310         <td><?php echo $part2b_1_1_2['yes'];?></td>
311         <td><?php echo $part2b_1_1_2['no'];?></td>
312     </tr>
313 </table>
314
315 <br/>
316 <table class="records">
317     <tr>
318         <td colspan="2"></td>
319         <td>Too fast</td>
320         <td>Fast</td>
321         <td>Just right</td>
322         <td>Slow</td>
323         <td>Too slow</td>
324         <td>Others</td>
325     </tr>
326     <tr>
327         <td width="2%">2.</td>
328         <td width="45%">How would you rate the overall pace of this course?</td>
329         <td><?php echo $part2b_2['Too fast'];?></td>
330         <td><?php echo $part2b_2['Fast'];?></td>
331         <td><?php echo $part2b_2['Just right'];?></td>
332         <td><?php echo $part2b_2['Slow'];?></td>
333         <td><?php echo $part2b_2['Too slow'];?></td>
334         <td><?php echo $part2b_2['Others']; ?></td>
335     </tr>
336 </table>
337
338 <br/>
339 <table class="records">
340     <tr>

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410     <td colspan="2"></td>
411     <td>0</td>
412     <td>1</td>
413     <td>2</td>
414     <td>3</td>
415     <td>4</td>
416     <td>AVE</td>
417 </tr>
418 <tr>
419     <td width="2%">1.</td>
420     <td>Explains the course objectives, expectations and requirements of the
         course</td>
421     <td width="5%"><?php echo $part3a_1[0]; $sum = 0; ?></td>
422     <td width="5%"><?php echo $part3a_1['1']; $sum+= $part3a_1['1']; ?></td>
423     <td width="5%"><?php echo $part3a_1['2']; $sum+= $part3a_1['2']*2; ?></td>
424     <td width="5%"><?php echo $part3a_1['3']; $sum+= $part3a_1['3']*3; ?></td>
425     <td width="5%"><?php echo $part3a_1['4']; $sum+= $part3a_1['4']*4; ?></td>
426     <td width="10%"><?php if($no_of_respondents != 0) echo round($save[1] =
         $sum/$no_of_respondents, 4); else echo 0;?></td>
427 </tr>
428 <tr>
429     <td>2.</td>
430     <td>Comes to class unprepared for the lesson.</td>
431     <td><?php echo $part3a_2[0]; $sum = 0; ?></td>
432     <td><?php echo $part3a_2['1']; $sum+= $part3a_2['1']; ?></td>
433     <td><?php echo $part3a_2['2']; $sum+= $part3a_2['2']*2; ?></td>
434     <td><?php echo $part3a_2['3']; $sum+= $part3a_2['3']*3; ?></td>
435     <td><?php echo $part3a_2['4']; $sum+= $part3a_2['4']*4; ?></td>
436     <td><?php if($no_of_respondents != 0) echo round($save[2] =
         $sum/$no_of_respondents, 4); else echo 0;?></td>
437 </tr>
438 <tr>
439     <td>3.</td>
440     <td>Presents the subject matter clearly and systematically.</td>
441     <td><?php echo $part3a_3[0]; $sum = 0; ?></td>
442     <td><?php echo $part3a_3['1']; $sum+= $part3a_3['1']; ?></td>
443     <td><?php echo $part3a_3['2']; $sum+= $part3a_3['2']*2; ?></td>
444     <td><?php echo $part3a_3['3']; $sum+= $part3a_3['3']*3; ?></td>
445     <td><?php echo $part3a_3['4']; $sum+= $part3a_3['4']*4; ?></td>
446     <td><?php if($no_of_respondents != 0) echo round($save[3] =
         $sum/$no_of_respondents, 4); else echo 0;?></td>
447 </tr>
448 <tr>
449     <td>4.</td>
450     <td>Relates the course to other fields and current issues/concerns.</td>
451     <td><?php echo $part3a_4[0]; $sum = 0; ?></td>
452     <td><?php echo $part3a_4['1']; $sum+= $part3a_4['1']; ?></td>
453     <td><?php echo $part3a_4['2']; $sum+= $part3a_4['2']*2; ?></td>
454     <td><?php echo $part3a_4['3']; $sum+= $part3a_4['3']*3; ?></td>
455     <td><?php echo $part3a_4['4']; $sum+= $part3a_4['4']*4; ?></td>
456     <td><?php if($no_of_respondents != 0) echo round($save[4] =
         $sum/$no_of_respondents, 4); else echo 0;?></td>
457 </tr>
458 <tr>
459     <td>5.</td>
460     <td>Fosters a stimulating atmosphere which encourages students to
         participate in class discussions/activities.</td>
461     <td><?php echo $part3a_5[0]; $sum = 0; ?></td>
462     <td><?php echo $part3a_5['1']; $sum+= $part3a_5['1']; ?></td>
463     <td><?php echo $part3a_5['2']; $sum+= $part3a_5['2']*2; ?></td>
464     <td><?php echo $part3a_5['3']; $sum+= $part3a_5['3']*3; ?></td>
465     <td><?php echo $part3a_5['4']; $sum+= $part3a_5['4']*4; ?></td>
466     <td><?php if($no_of_respondents != 0) echo round($save[5] =
         $sum/$no_of_respondents, 4); else echo 0;?></td>
467 </tr>
468 <tr>
469     <td>6.</td>
470     <td>Stimulates the students to study more about the subject.</td>
471     <td><?php echo $part3a_6[0]; $sum = 0; ?></td>
472     <td><?php echo $part3a_6['1']; $sum+= $part3a_6['1']; ?></td>
473     <td><?php echo $part3a_6['2']; $sum+= $part3a_6['2']*2; ?></td>
474     <td><?php echo $part3a_6['3']; $sum+= $part3a_6['3']*3; ?></td>
475     <td><?php echo $part3a_6['4']; $sum+= $part3a_6['4']*4; ?></td>

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476         <td><?php if($no_of_respondents != 0) echo round($save[6] =
           $sum/$no_of_respondents, 4); else echo 0;?></td>
477     </tr>
478     <tr>
479         <td>7.</td>
480         <td>Does not encourage studentns to do their best.</td>
481         <td><?php echo $part3a_7[0]; $sum = 0; ?></td>
482         <td><?php echo $part3a_7['1']; $sum+= $part3a_7['1']; ?></td>
483         <td><?php echo $part3a_7['2']; $sum+= $part3a_7['2']*2; ?></td>
484         <td><?php echo $part3a_7['3']; $sum+= $part3a_7['3']*3; ?></td>
485         <td><?php echo $part3a_7['4']; $sum+= $part3a_7['4']*4; ?></td>
486         <td><?php if($no_of_respondents != 0) echo round($save[7] =
           $sum/$no_of_respondents, 4); else echo 0;?></td>
487     </tr>
488     <tr>
489         <td>8.</td>
490         <td>Speaks clearly and audibly.</td>
491         <td><?php echo $part3a_8[0]; $sum = 0; ?></td>
492         <td><?php echo $part3a_8['1']; $sum+= $part3a_8['1']; ?></td>
493         <td><?php echo $part3a_8['2']; $sum+= $part3a_8['2']*2; ?></td>
494         <td><?php echo $part3a_8['3']; $sum+= $part3a_8['3']*3; ?></td>
495         <td><?php echo $part3a_8['4']; $sum+= $part3a_8['4']*4; ?></td>
496         <td><?php if($no_of_respondents != 0) echo round($save[8] =
           $sum/$no_of_respondents, 4); else echo 0;?></td>
497     </tr>
498     <tr>
499         <td>9.</td>
500         <td>Uses appropriate teaching techniques and instructional materials.</td>
501         <td><?php echo $part3a_9[0]; $sum = 0; ?></td>
502         <td><?php echo $part3a_9['1']; $sum+= $part3a_9['1']; ?></td>
503         <td><?php echo $part3a_9['2']; $sum+= $part3a_9['2']*2; ?></td>
504         <td><?php echo $part3a_9['3']; $sum+= $part3a_9['3']*3; ?></td>
505         <td><?php echo $part3a_9['4']; $sum+= $part3a_9['4']*4; ?></td>
506         <td><?php if($no_of_respondents != 0) echo round($save[9] =
           $sum/$no_of_respondents, 4); else echo 0;?></td>
507     </tr>
508     <tr>
509         <td>10.</td>
510         <td>Does not respect students' ideas and viewpoints.</td>
511         <td><?php echo $part3a_10[0]; $sum = 0; ?></td>
512         <td><?php echo $part3a_10['1']; $sum+= $part3a_10['1']; ?></td>
513         <td><?php echo $part3a_10['2']; $sum+= $part3a_10['2']*2; ?></td>
514         <td><?php echo $part3a_10['3']; $sum+= $part3a_10['3']*3; ?></td>
515         <td><?php echo $part3a_10['4']; $sum+= $part3a_10['4']*4; ?></td>
516         <td><?php if($no_of_respondents != 0) echo round($save[10] =
           $sum/$no_of_respondents, 4); else echo 0;?></td>
517     </tr>
518     <tr>
519         <td>11.</td>
520         <td>Explains concepts again when he/she notes that the concept is not well
           understood.</td>
521         <td><?php echo $part3a_11[0]; $sum = 0; ?></td>
522         <td><?php echo $part3a_11['1']; $sum+= $part3a_11['1']; ?></td>
523         <td><?php echo $part3a_11['2']; $sum+= $part3a_11['2']*2; ?></td>
524         <td><?php echo $part3a_11['3']; $sum+= $part3a_11['3']*3; ?></td>
525         <td><?php echo $part3a_11['4']; $sum+= $part3a_11['4']*4; ?></td>
526         <td><?php if($no_of_respondents != 0) echo round($save[11] =
           $sum/$no_of_respondents, 4); else echo 0;?></td>
527     </tr>
528     <tr>
529         <td>12.</td>
530         <td>Identifies and stresses important points.</td>
531         <td><?php echo $part3a_12[0]; $sum = 0; ?></td>
532         <td><?php echo $part3a_12['1']; $sum+= $part3a_12['1']; ?></td>
533         <td><?php echo $part3a_12['2']; $sum+= $part3a_12['2']*2; ?></td>
534         <td><?php echo $part3a_12['3']; $sum+= $part3a_12['3']*3; ?></td>
535         <td><?php echo $part3a_12['4']; $sum+= $part3a_12['4']*4; ?></td>
536         <td><?php if($no_of_respondents != 0) echo round($save[12] =
           $sum/$no_of_respondents, 4); else echo 0;?></td>
537     </tr>
538     <tr>
539         <td>13.</td>
540         <td>Demonstrates thorough and broad knowledge of the subject of the

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course.</td>
541 <td><?php echo $part3a_13[0]; $sum = 0; ?></td>
542 <td><?php echo $part3a_13['1']; $sum+= $part3a_13['1']; ?></td>
543 <td><?php echo $part3a_13['2']; $sum+= $part3a_13['2']*2; ?></td>
544 <td><?php echo $part3a_13['3']; $sum+= $part3a_13['3']*3; ?></td>
545 <td><?php echo $part3a_13['4']; $sum+= $part3a_13['4']*4; ?></td>
546 <td><?php if($no_of_respondents != 0) echo round($ave[13] =
    $sum/$no_of_respondents, 4); else echo 0;?></td>
547 </tr>
548 <tr>
549 <td>14.</td>
550 <td>Uses evaluation measures and tests which adequately sample what was
    covered in the course.</td>
551 <td><?php echo $part3a_14[0]; $sum = 0; ?></td>
552 <td><?php echo $part3a_14['1']; $sum+= $part3a_14['1']; ?></td>
553 <td><?php echo $part3a_14['2']; $sum+= $part3a_14['2']*2; ?></td>
554 <td><?php echo $part3a_14['3']; $sum+= $part3a_14['3']*3; ?></td>
555 <td><?php echo $part3a_14['4']; $sum+= $part3a_14['4']*4; ?></td>
556 <td><?php if($no_of_respondents != 0) echo round($ave[14] =
    $sum/$no_of_respondents, 4); else echo 0;?></td>
557 </tr>
558 <tr>
559 <td>15.</td>
560 <td>Gives constructive criticism of students' works.</td>
561 <td><?php echo $part3a_15[0]; $sum = 0; ?></td>
562 <td><?php echo $part3a_15['1']; $sum+= $part3a_15['1']; ?></td>
563 <td><?php echo $part3a_15['2']; $sum+= $part3a_15['2']*2; ?></td>
564 <td><?php echo $part3a_15['3']; $sum+= $part3a_15['3']*3; ?></td>
565 <td><?php echo $part3a_15['4']; $sum+= $part3a_15['4']*4; ?></td>
566 <td><?php if($no_of_respondents != 0) echo round($ave[15] =
    $sum/$no_of_respondents, 4); else echo 0;?></td>
567 </tr>
568 <tr>
569 <td width="2%">16.</td>
570 <td width="62%">Is firm and consistent; strict but reasonable in
    disciplining students.</td>
571 <td><?php echo $part3a_16[0]; $sum = 0; ?></td>
572 <td><?php echo $part3a_16['1']; $sum+= $part3a_16['1']; ?></td>
573 <td><?php echo $part3a_16['2']; $sum+= $part3a_16['2']*2; ?></td>
574 <td><?php echo $part3a_16['3']; $sum+= $part3a_16['3']*3; ?></td>
575 <td><?php echo $part3a_16['4']; $sum+= $part3a_16['4']*4; ?></td>
576 <td><?php if($no_of_respondents != 0) echo round($ave[16] =
    $sum/$no_of_respondents, 4); else echo 0;?></td>
577 </tr>
578 <tr>
579 <td width="2%">17.</td>
580 <td width="62%">Does not invite questions from students.</td>
581 <td><?php echo $part3a_17[0]; $sum = 0; ?></td>
582 <td><?php echo $part3a_17['1']; $sum+= $part3a_17['1']; ?></td>
583 <td><?php echo $part3a_17['2']; $sum+= $part3a_17['2']*2; ?></td>
584 <td><?php echo $part3a_17['3']; $sum+= $part3a_17['3']*3; ?></td>
585 <td><?php echo $part3a_17['4']; $sum+= $part3a_17['4']*4; ?></td>
586 <td><?php if($no_of_respondents != 0) echo round($ave[17] =
    $sum/$no_of_respondents, 4); else echo 0;?></td>
587 </tr>
588 <tr>
589 <td width="2%">18.</td>
590 <td width="62%">Explains the grading procedure ans standards clearly and
    applies them.</td>
591 <td><?php echo $part3a_18[0]; $sum = 0; ?></td>
592 <td><?php echo $part3a_18['1']; $sum+= $part3a_18['1']; ?></td>
593 <td><?php echo $part3a_18['2']; $sum+= $part3a_18['2']*2; ?></td>
594 <td><?php echo $part3a_18['3']; $sum+= $part3a_18['3']*3; ?></td>
595 <td><?php echo $part3a_18['4']; $sum+= $part3a_18['4']*4; ?></td>
596 <td><?php if($no_of_respondents != 0) echo round($ave[18] =
    $sum/$no_of_respondents, 4); else echo 0;?></td>
597 </tr>
598 <tr>
599 <td width="2%">19.</td>
600 <td width="62%">Does not invite through behaviour and general
    appearance.</td>
601 <td><?php echo $part3a_19[0]; $sum = 0; ?></td>
602 <td><?php echo $part3a_19['1']; $sum+= $part3a_19['1']; ?></td>

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603 <td><?php echo $part3a_19['2']; $sum+= $part3a_19['2']*2; ?></td>
604 <td><?php echo $part3a_19['3']; $sum+= $part3a_19['3']*3; ?></td>
605 <td><?php echo $part3a_19['4']; $sum+= $part3a_19['4']*4; ?></td>
606 <td><?php if($no_of_respondents != 0) echo round($save[19] =
        $sum/$no_of_respondents, 4); else echo 0;?></td>
607 </tr>
608 <tr>
609 <td width="2%">20.</td>
610 <td width="62%">Explains the grading procedure ans standards clearly and
        applies them.</td>
611 <td><?php echo $part3a_20[0]; $sum = 0; ?></td>
612 <td><?php echo $part3a_20['1']; $sum+= $part3a_20['1']; ?></td>
613 <td><?php echo $part3a_20['2']; $sum+= $part3a_20['2']*2; ?></td>
614 <td><?php echo $part3a_20['3']; $sum+= $part3a_20['3']*3; ?></td>
615 <td><?php echo $part3a_20['4']; $sum+= $part3a_20['4']*4; ?></td>
616 <td><?php if($no_of_respondents != 0) echo round($save[20] =
        $sum/$no_of_respondents, 4); else echo 0;?></td>
617 </tr>
618 <tr>
619 <td width="2%">21.</td>
620 <td width="62%">Admits errors in the presentation of subject matter, and in
        evaluation.</td>
621 <td><?php echo $part3a_21[0]; $sum = 0; ?></td>
622 <td><?php echo $part3a_21['1']; $sum+= $part3a_21['1']; ?></td>
623 <td><?php echo $part3a_21['2']; $sum+= $part3a_21['2']*2; ?></td>
624 <td><?php echo $part3a_21['3']; $sum+= $part3a_21['3']*3; ?></td>
625 <td><?php echo $part3a_21['4']; $sum+= $part3a_21['4']*4; ?></td>
626 <td><?php if($no_of_respondents != 0) echo round($save[21] =
        $sum/$no_of_respondents, 4); else echo 0;?></td>
627 </tr>
628 <tr>
629 <td width="2%">22.</td>
630 <td width="62%">Answers students' questions adequately.</td>
631 <td><?php echo $part3a_22[0]; $sum = 0; ?></td>
632 <td><?php echo $part3a_22['1']; $sum+= $part3a_22['1']; ?></td>
633 <td><?php echo $part3a_22['2']; $sum+= $part3a_22['2']*2; ?></td>
634 <td><?php echo $part3a_22['3']; $sum+= $part3a_22['3']*3; ?></td>
635 <td><?php echo $part3a_22['4']; $sum+= $part3a_22['4']*4; ?></td>
636 <td><?php if($no_of_respondents != 0) echo round($save[22] =
        $sum/$no_of_respondents, 4); else echo 0;?></td>
637 </tr>
638 <tr>
639 <td width="2%">23.</td>
640 <td width="62%">Is not available for consultation.</td>
641 <td><?php echo $part3a_23[0]; $sum = 0; ?></td>
642 <td><?php echo $part3a_23['1']; $sum+= $part3a_23['1']; ?></td>
643 <td><?php echo $part3a_23['2']; $sum+= $part3a_23['2']*2; ?></td>
644 <td><?php echo $part3a_23['3']; $sum+= $part3a_23['3']*3; ?></td>
645 <td><?php echo $part3a_23['4']; $sum+= $part3a_23['4']*4; ?></td>
646 <td><?php if($no_of_respondents != 0) echo round($save[23] =
        $sum/$no_of_respondents, 4); else echo 0;?></td>
647 </tr>
648 <tr>
649 <td width="2%">24.</td>
650 <td width="62%">Is able to make students comprehend and appreciate complex
        ideas.</td>
651 <td><?php echo $part3a_24[0]; $sum = 0; ?></td>
652 <td><?php echo $part3a_24['1']; $sum+= $part3a_24['1']; ?></td>
653 <td><?php echo $part3a_24['2']; $sum+= $part3a_24['2']*2; ?></td>
654 <td><?php echo $part3a_24['3']; $sum+= $part3a_24['3']*3; ?></td>
655 <td><?php echo $part3a_24['4']; $sum+= $part3a_24['4']*4; ?></td>
656 <td><?php if($no_of_respondents != 0) echo round($save[24] =
        $sum/$no_of_respondents, 4); else echo 0;?></td>
657 </tr>
658 <tr>
659 <td width="2%">25.</td>
660 <td width="62%">Gives unreasonable course requirements and assignments.</td>
661 <td><?php echo $part3a_25[0]; $sum = 0; ?></td>
662 <td><?php echo $part3a_25['1']; $sum+= $part3a_25['1']; ?></td>
663 <td><?php echo $part3a_25['2']; $sum+= $part3a_25['2']*2; ?></td>
664 <td><?php echo $part3a_25['3']; $sum+= $part3a_25['3']*3; ?></td>
665 <td><?php echo $part3a_25['4']; $sum+= $part3a_25['4']*4; ?></td>
666 <td><?php if($no_of_respondents != 0) echo round($save[25] =

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        $sum/$no_of_respondents, 4); else echo 0;?></td>
667 </tr>
668 <tr>
669 <td width="2%">26.</td>
670 <td>Uses comprehensive, up-to-date and relevant reading list.</td>
671 <td><?php echo $part3a_26[0]; $sum = 0; ?></td>
672 <td><?php echo $part3a_26['1']; $sum+= $part3a_26['1']; ?></td>
673 <td><?php echo $part3a_26['2']; $sum+= $part3a_26['2']*2; ?></td>
674 <td><?php echo $part3a_26['3']; $sum+= $part3a_26['3']*3; ?></td>
675 <td><?php echo $part3a_26['4']; $sum+= $part3a_26['4']*4; ?></td>
676 <td><?php if($no_of_respondents != 0) echo round($ave[26] =
        $sum/$no_of_respondents, 4); else echo 0;?></td>
677 </tr>
678 </table>
679 <br/>
680 <div align="right">Weighted Average (Part III-A): <?php if(isset($ave)){if($sum
        = array_sum($ave)) echo round($sum/count($ave), 4); else echo 0;} else echo
        0; ?></div>
681 <br/><br/>
682
683 <b>PART III-B</b>
684 <br/><br/>
685
686 <table class="records">
687 <tr>
688 <td colspan="2"></td>
689 <td>0</td>
690 <td>1</td>
691 <td>2-3</td>
692 <td>4-5</td>
693 <td>6</td>
694 </tr>
695 <tr>
696 <td width="2%">1.</td>
697 <td>How many times has the teacher been late?</td>
698 <td width="8%"><?php echo $part3b_1['0']; ?></td>
699 <td width="8%"><?php echo $part3b_1['1']; ?></td>
700 <td width="8%"><?php echo $part3b_1['2-3']; ?></td>
701 <td width="8%"><?php echo $part3b_1['4-5']; ?></td>
702 <td width="8%"><?php echo $part3b_1['6']; ?></td>
703 </tr>
704 <tr>
705 <td>2.</td>
706 <td>How many class meetings has the teacher missed?</td>
707 <td width="8%"><?php echo $part3b_2['0']; ?></td>
708 <td width="8%"><?php echo $part3b_2['1']; ?></td>
709 <td width="8%"><?php echo $part3b_2['2-3']; ?></td>
710 <td width="8%"><?php echo $part3b_2['4-5']; ?></td>
711 <td width="8%"><?php echo $part3b_2['6']; ?></td>
712 </tr>
713 </table>
714
715 <br/>
716 <table class="records">
717 <tr>
718 <td colspan="2"></td>
719 <td>Too early</td>
720 <td>On time</td>
721 <td>Late</td>
722 <td>Very Late</td>
723 </tr>
724 <tr>
725 <td width="2%">3.</td>
726 <td>The teacher generally dismissed the class</td>
727 <td width="8%"><?php echo $part3b_3['Too early']; ?></td>
728 <td width="8%"><?php echo $part3b_3['On time']; ?></td>
729 <td width="8%"><?php echo $part3b_3['Late']; ?></td>
730 <td width="8%"><?php echo $part3b_3['Very late']; ?></td>
731 </tr>
732 </table>
733
734 <br/>
735 <table class="records">

```

```

736 <tr>
737 <td rowspan="7" valign="top">4. What are the bases used by teacher for
      grading?</td>
738 <td>Recitation</td>
739 <td width="10%"><?php echo $part3b_4['recitation']; ?></td>
740 </tr>
741 <tr>
742 <td>Quizzes</td>
743 <td><?php echo $part3b_4['quizzes']; ?></td>
744 </tr>
745 <tr>
746 <td>Midterm exams</td>
747 <td><?php echo $part3b_4['midterms']; ?></td>
748 </tr>
749 <tr>
750 <td>Final exams</td>
751 <td><?php echo $part3b_4['finals']; ?></td>
752 </tr>
753 <tr>
754 <td>Reports</td>
755 <td><?php echo $part3b_4['reports']; ?></td>
756 </tr>
757 <tr>
758 <td>Papers</td>
759 <td><?php echo $part3b_4['papers']; ?></td>
760 </tr>
761 <tr>
762 <td>Others</td>
763 <td><?php echo $part3b_4['others']; ?></td>
764 </tr>
765 </table>
766
767 <br/><br/>
768 <table class="records">
769 <tr>
770 <td colspan="2"></td>
771 <td width="10%">1 Week</td>
772 <td width="10%">2 Weeks</td>
773 <td width="10%">1 Month</td>
774 <td width="10%">>1 Month</td>
775 <td width="10%">Never</td>
776 </tr>
777 <tr>
778 <td width="2%">5.</td>
779 <td>How soon does the teacher post results or return corrected assignments,
      quizzes, exams, papers, etc.?</td>
780 <td><?php echo $part3b_5['One week']; ?></td>
781 <td><?php echo $part3b_5['Two weeks']; ?></td>
782 <td><?php echo $part3b_5['One month']; ?></td>
783 <td><?php echo $part3b_5['More than one month']; ?></td>
784 <td><?php echo $part3b_5['Never']; ?></td>
785 </tr>
786 </table>
787
788 <br/>
789 <table class="records">
790 <tr>
791 <td colspan="2"></td>
792 <td width="10%">Always</td>
793 <td width="10%">Usually</td>
794 <td width="10%">Sometimes</td>
795 <td width="10%">Rarely</td>
796 <td width="10%">Never</td>
797 </tr>
798 <tr>
799 <td width="2%">6.</td>
800 <td>Is the teacher fair in giving grades?</td>
801 <td><?php echo $part3b_6_1['Always']; ?></td>
802 <td><?php echo $part3b_6_1['Usually']; ?></td>
803 <td><?php echo $part3b_6_1['Sometimes']; ?></td>
804 <td><?php echo $part3b_6_1['Rarely']; ?></td>
805 <td><?php echo $part3b_6_1['Never']; ?></td>
806 </tr>

```

```

807 </table>
808
809 <br/>
810 <table class="records">
811   <tr>
812     <td colspan="2"></td>
813     <td width="10%">The best</td>
814     <td width="10%">Among best</td>
815     <td width="10%">Average</td>
816     <td width="10%">Among worst</td>
817     <td width="10%">Worst</td>
818   </tr>
819   <tr>
820     <td width="2%">7.</td>
821     <td>Among the teachers you have had, how would you rate this teacher?</td>
822     <td><?php echo $part3b_7['The best']; ?></td>
823     <td><?php echo $part3b_7['Among the best']; ?></td>
824     <td><?php echo $part3b_7['Average']; ?></td>
825     <td><?php echo $part3b_7['Among the worst']; ?></td>
826     <td><?php echo $part3b_7['The worst']; ?></td>
827   </tr>
828 </table>
829 <br/><br/>
830
831 <b>PART IV</b>
832 <br/><br/>
833
834 <table class="records">
835   <tr>
836     <td colspan="6">What are the faculty's strong points? Areas for
      improvement?</td>
837   </tr>
838   <tr>
839     <td colspan="6"><?php echo $part3c; ?> &nbsp;   </td>
840   </tr>
841 </table>
842
843
844 </body>
845 </html>

```

Listing 76: set/upset_detailedreport_view.php

```

1 <?php
2   if(strpos($_SERVER["PHP_SELF"],"index.php/admin") && !isset($isAdmin))
3     header('location:'.base_url('index.php/home'));
4   elseif(strpos($_SERVER["PHP_SELF"],"index.php/clerk") && !isset($isClerk))
5     header('location:'.base_url('index.php/home'));
6   elseif(strpos($_SERVER["PHP_SELF"],"index.php/infoanalyst") &&
7     !isset($isAnalyst))
8     header('location:'.base_url('index.php/home'));
9   elseif(strpos($_SERVER["PHP_SELF"],"index.php/student") && !isset($student_id))
10    header('location:'.base_url('index.php/home'));
11 ?>

```

Listing 77: set/check.php

```

1 <?php include('check.php'); ?>
2 <meta http-equiv='Content-Type' content='text/html; charset=UTF-8' />
3
4 <script src="<?php echo base_url('js/jquery-1.9.1.js');?>"></script>
5 <script src="<?php echo base_url('js/jquery-ui.js');?>"></script>
6 <script>
7   $(document).ready(function() {
8     $("#accordion").accordion({active: 0, heightStyle: "content"});
9   });
10 </script>
11

```



```

69     <a href="" class="no-style"><h1>Clerk Utilities</h1></a>
70 </div>
71
72 <div>
73     <div class="module-div">
74         <h1>Class Management</h1>
75         <a href="'.base_url('/index.php/clerk/classmanagement').'">
76             <h1>Class Management</h1>
77             <h2>Class Management</h2>
78             <h3>Classes-Faculty Selection</h3>
79             <a href="'.base_url('/index.php/clerk/studentaccount').'">
80                 <h3>List of Students</h3>
81             <a href="'.base_url('/index.php/clerk/setinstrumentassignment').'">
82                 <h3>SET Instrument Assignment</h3>
83             </a>
84         </div>
85     </div>
86
87     <div class="module-div">
88         <h1>Evaluation Management</h1>
89         <a href="'.base_url('/index.php/clerk/evaluationmanagement/
90             open').'">
91             <h2>Evaluation Mode</h2>
92         <a href="'.base_url('/index.php/clerk/evaluationmanagement/
93             status').'">
94             <h2>Evaluation Status</h2>
95         </a>
96     </div>
97
98     <div class="module-div">
99         <h1>Report Management</h1>
100        <a href="'.base_url('/index.php/clerk/reportmanagement/
101            reportperclass').'">
102            <h2>Class Detailed Report</h2>
103        <a href="'.base_url('/index.php/clerk/reportmanagement/
104            facultysummarizedreport').'">
105            <h2>Faculty Summarized Report</h2>
106        </a>
107    </div>
108 </div>
109
110 </div>
111
112 <div class="module-div">
113     <h1>Info Security Analyst</h1>
114 </div>
115
116 <div class="module-div">
117     <h1>Export Data</h1>
118     <a href="'.base_url('/index.php/infoanalyst/exportdata').'">
119         <h2>Export Data</h2>
120     </a>
121 </div>
122
123 <div class="module-div">
124     <h1>Account Management</h1>
125 </div>
126
127 <div class="module-div">

```

```

128         <a href="'.base_url('/index.php/changepassword').'">
129         if(strpos($_SERVER["PHP_SELF"],"changepassword"))
130             echo 'class="current"';
131         echo '> Change password</a>
132     </div>
133     <div class="module-div">
134         <a href="'.base_url('/index.php/login/logout').'">Logout</a>
135     </div>
136 </div>';
137 }
138 else
139 {
140     echo '
141     <div class="module-div2">
142         <h1>Student Panel</h1>
143     </div>
144
145     <div>
146         <div class="module-div">
147             <a href="'.base_url('/index.php/student/home').'"
148                 class="current">View Classes</a>
149             <a href="'.base_url('/index.php/login/logout').'">Logout</a>
150         </div>
151     </div>';
152 }
153 </div>
154 </div>

```

Listing 78: set/header.php

```

1 <?php include('check.php'); ?>
2 <header>
3     <title>OSET 4.0</title>
4     <link href='<?=base_url('css/style.css')?'>' rel='stylesheet' type='text/css'>
5 </header>
6
7 <body>
8     <div class="wrapper">
9         <?php include('header.php'); ?>
10
11     <div class = "right">
12         <h2>List of Classes</h2>
13
14         <?php
15         if(isset($_SESSION['msg'])) {echo "<center><font
16             color=green>".$_SESSION['msg']."</font><br/><br/></center>";
17             unset($_SESSION['msg']);}
18         ?>
19
20     <table class = "records">
21         <tr>
22             <th>Subject</th>
23             <th>Section</th>
24             <th>Instructor</th>
25             <th></th>
26         </tr>
27         <?php
28         $i = 0;
29         foreach ($records['subject'] as $subject)
30         {
31             echo
32             "<tr>
33                 <td>".$_records['subject'][$i]."</td>
34                 <td>".$_records['section'][$i]."</td>
35                 <td>".$_ucwords(strtolower($records['instructor'][$i]))."</td>
36                 <td>";
37             if($records['evaluated'][$i])
38                 echo "<font color='green'>Evaluated</font>";
39             else

```



```

28     <div class="module-div">
29         <a href="<?=base_url('/index.php/student/home')?>" class="current">View
           Classes</a>
30         <a href="<?=base_url('/index.php/login/logout')?>">Logout</a>
31     </div>
32 </div>
33 </div>
34 </div>

```

Listing 81: student/header.php

5. Cascading Style Sheet

```

1 body {
2     font: 13px "proxima-nova", Helvetica, Arial, sans-serif;
3     background: #EEEEED;
4 }
5
6 .main-content-body {
7     min-height: 200px;
8     position: relative;
9     background: none repeat scroll 0% 0% rgb(255, 255, 255);
10    border-radius: 4px 4px 4px 4px;
11    box-shadow: 0px 0px 4px rgba(0, 0, 0, 0.8);
12    text-shadow: 0px 1px rgba(255, 255, 255, 0.6);
13    padding: 20px 20px;
14 }
15
16 div.wrapper {
17     width: 95%;
18     margin: 0 auto;
19     background: none repeat scroll 0% 0% rgb(255, 255, 255);
20     border-radius: 4px 4px 4px 4px;
21     box-shadow: 0px 0px 4px rgba(0, 0, 0, 0.8);
22     min-height: 900px;
23     margin-top: -8px;
24     padding-bottom: 100px;
25     margin-bottom: 80px;
26 }
27
28 .header {
29     left: 0;
30     margin-left: 0px;
31     background: url('images/headerbg.jpg');
32     height: 120px;
33     margin-bottom: 30px;
34     width: 100%;
35 }
36
37 .title{
38     font-family:Georgia;
39     font-size: 30px;
40     color:white;
41     text-shadow: 2px 2px 5px #000;
42 }
43
44 .subtitle{
45     color:white;
46     margin: -33px 0px 5px 380px;
47     text-shadow: 2px 1px 5px #000;
48     font-size: 17px;
49     font-family: Century Gothic
50 }
51
52 img.banner {
53     height: 109px;
54     box-shadow: 8px 8px 8px #FFFFFF;
55 }
56

```



```

57 div.loginbar{
58   float: right;
59   text-align: right;
60   padding: 3px 0px;
61   color: #000;
62   font-size: 13px;
63   width: 100%;
64   background-color: #FFF;
65   box-shadow: 0px 0px 4px rgba(0, 0, 0, 0.9);
66 }
67
68
69 .grid-960 {
70   margin: 0px auto;
71   width: 960px;
72 }
73
74 .clearfix {
75 }
76
77 .loginbox{
78   margin: 8px 8px;
79   margin-right: 0px;
80   height: 250px;
81   padding: 10px;
82   background-color: #DDD;
83 }
84
85 .loginform{
86   margin-left: 8px;
87   background-color: #EEE;
88   padding: 6px 8px;
89   color: #666;
90 }
91
92 .loginbox input{
93   font: 13px "Helvetica";
94   text-indent: 2px;
95   height: 27px;
96   color: #333;
97 }
98
99 .loginbox table{
100  color: #555555;
101  font: 13px "Arial";
102  margin: -10px auto;
103 }
104
105 input.button{
106  border: 1px solid rgba(0, 0, 0, 0.0);
107  border-radius: 2px;
108  font: 12px Helvetica;
109  padding: 2px 20px;
110  background-color: maroon;
111  height: 25px;
112  color: #FFF8DC;
113  box-shadow: 0px 0px 4px rgba(0, 0, 0, 0.8);
114 }
115
116 input.button:hover{
117  background-color: #a11;
118 }
119
120 div.left {
121  margin-top: 8px;
122  float: left;
123  width: 18%;
124 }
125 .module-div {
126  margin: 0 1%;
127  padding-bottom: 10px;
128 }
129

```

```

130 .module-div h1{
131     border-bottom: 1px solid #ccc;
132     color: maroon;
133     font-size: 13px;
134     padding-left: 12px;
135     margin-left: -2px !important;
136 }
137
138 .module-div a{
139     background: #FFF;
140     border-bottom: 1px solid #DDD;
141     color: #444;
142     display: block;
143     padding: 6px 10px 6px 18px;
144     text-decoration: none;
145     font-size: 13px;
146     margin-left: -3px;
147 }
148
149 .module-div a:hover {
150     background: #ccc;
151 }
152
153 .module-div a.current, #oset-lc div.module-div a.current:hover {
154     background: #ccc;
155 }
156
157 .module-div2 {
158     margin: 0 1%;
159     margin-left: -2px !important;
160 }
161
162 .module-div2 h1{
163     font-size: 14px;
164     font-weight: normal;
165     color: white !important;
166     margin-left: 3px;
167 }
168
169 .module-div2 a {
170     color: inherit;
171     display: block;
172 }
173
174 .module-div2 a:hover {
175     text-decoration: underline;
176 }
177
178 .module-div2 a.current, #oset-lc div.module-div a.current:hover {
179     background: #391009;
180     color: #FFF;
181 }
182
183 div.right {
184     margin-top: 35px;
185     margin-left: 20%;
186     width: 75%;
187 }
188
189 table{
190     font-size: 13px;
191     border-collapse: collapse;
192 }
193
194 table.records{
195     width: 100%;
196 }
197
198 .records tr:hover{
199     background-color: #EFFFFFFF;
200 }
201
202 a{

```

```

203   color: maroon;
204 }
205
206 h2{
207   font-family: Georgia;
208   font-weight: normal;
209 }
210
211 table.records td, table.records th{
212   padding: 3px;
213   border: 1px solid rgba(0, 0, 0, 0.5);
214   border-color: #ccc;
215 }
216
217 table.records th{
218   background: url('images/add.png');
219   color: #fff;
220   /*background-color: #006633;*/
221 }
222
223 table.records th a{
224   color: #fff;
225 }
226
227 a{
228   text-decoration: none;
229 }
230
231 .error_msg{
232   font-size: 12px;
233   color: red;
234 }
235
236 div.tabH{
237   background-color: #EEEEED;
238   padding: 7px 10px;
239   margin: 0 -1px;
240   margin-bottom: -3px;
241   border-top-left-radius: 6px;
242   border-top-right-radius: 6px;
243   border-bottom: 1px solid #BBB;
244   color: #555;
245   font: 13px "proxima-nova", Helvetica, Arial, sans-serif;
246 }
247
248 div.selectedtabH, div.tabH:hover{
249   background-color: #FFF;
250   padding: 7px 10px;
251   margin: 0 -1px;
252   margin-bottom: -3px;
253   border-bottom: 1px solid #FFF;
254   border-top-left-radius: 6px;
255   border-top-right-radius: 6px;
256   color: #000;
257   font: 13px "proxima-nova", Helvetica, Arial, sans-serif;
258 }
259
260 div.tabs{
261   background-color: #BBB;
262   width: 100%;
263   border-radius: 5px;
264   padding-top: 1px;
265   padding-left: 1px;
266 }
267
268 a.no-style:hover{
269   text-decoration: none;
270 }
271
272 .date_picker {
273   text-align: center;
274   background-image: url('images/calendar.png');
275   background-position: right center;

```

```

276 background-repeat: no-repeat;
277 padding-right: 18px;
278 width: 100px;
279 }
280
281 /* Layout helpers
282 -----*/
283 .ui-helper-hidden {
284     display: none;
285 }
286 .ui-helper-hidden-accessible {
287     border: 0;
288     clip: rect(0 0 0 0);
289     height: 1px;
290     margin: -1px;
291     overflow: hidden;
292     padding: 0;
293     position: absolute;
294     width: 1px;
295 }
296 .ui-helper-reset {
297     margin: 0;
298     padding: 0;
299     border: 0;
300     outline: 0;
301     line-height: 1.3;
302     text-decoration: none;
303     font-size: 100%;
304     list-style: none;
305 }
306 .ui-helper-clearfix:before,
307 .ui-helper-clearfix:after {
308     content: "";
309     display: table;
310     border-collapse: collapse;
311 }
312 .ui-helper-clearfix:after {
313     clear: both;
314 }
315 .ui-helper-clearfix {
316     min-height: 0; /* support: IE7 */
317 }
318 .ui-helper-zfix {
319     width: 100%;
320     height: 100%;
321     top: 0;
322     left: 0;
323     position: absolute;
324     opacity: 0;
325     filter: Alpha(Opacity=0);
326 }
327
328 .ui-front {
329     z-index: 100;
330 }
331
332
333 /* Icons
334 -----*/
335
336 /* states and images */
337 .ui-icon {
338     display: block;
339     text-indent: -9999px;
340     overflow: hidden;
341     background-repeat: no-repeat;
342 }
343
344 /* Misc visuals
345 -----*/
346 .ui-accordion .ui-accordion-header {
347     display: block;
348     cursor: pointer;

```

```

349 position: relative;
350 background: #39150C;
351 font-family: Arial, Helvetica, sans-serif;
352 min-height: 0; /* support: IE7 */
353 }
354 .ui-accordion .ui-accordion-icons {
355 padding-left: 1.3em;
356 }
357 .ui-accordion .ui-accordion-noicons {
358 padding-left: .7em;
359 }
360 .ui-accordion .ui-accordion-icons .ui-accordion-icons {
361 padding-left: 2.2em;
362 }
363 .ui-accordion .ui-accordion-header .ui-accordion-header-icon {
364 position: absolute;
365 left: .1em;
366 top: 50%;
367 margin-top: -8px;
368 }
369 .ui-accordion .ui-accordion-content {
370 border-top: 0;
371 padding-top: 5px;
372 overflow: auto;
373 font-family: Arial, Helvetica, sans-serif;
374 }
375 .ui-autocomplete {
376 position: absolute;
377 top: 0;
378 left: 0;
379 cursor: default;
380 }
381
382 /* Interaction states
383 -----*/
384 .ui-state-default,
385 .ui-widget-content .ui-state-default,
386 .ui-widget-header .ui-state-default {
387 border: 1px solid #d3d3d3;
388 background: #e6e6e6 url(images/ui-bg_glass_75_e6e6e6_1x400.png) 50% 50% repeat-x;
389 font-weight: normal;
390 color: #555555;
391 }
392
393 /* Icons
394 -----*/
395
396 /* states and images */
397 .ui-icon {
398 width: 16px;
399 height: 16px;
400 }
401 .ui-state-default .ui-icon {
402 background-image: url(images/ui-icons_FFFFFFFF_256x240.png);
403 }
404 .ui-state-hover .ui-icon,
405 .ui-state-focus .ui-icon {
406 background-image: url(images/ui-icons_FFFFFFFF_256x240.png);
407 }
408 .ui-state-active .ui-icon {
409 background-image: url(images/ui-icons_FFFFFFFF_256x240.png);
410 }
411
412 /* positioning */
413 .ui-icon-triangle-1-e { background-position: -32px -16px; }
414 .ui-icon-triangle-1-s { background-position: -64px -16px; }
415
416 /* Date picker*/
417
418 .ui-datepicker {
419 width: 17em;
420 padding: .2em .2em 0;
421 display: none;

```

```

422 }
423 .ui-datepicker .ui-datepicker-header {
424     position: relative;
425     padding: .2em 0;
426 }
427 .ui-datepicker .ui-datepicker-prev,
428 .ui-datepicker .ui-datepicker-next {
429     position: absolute;
430     top: 2px;
431     width: 1.8em;
432     height: 1.8em;
433 }
434 .ui-datepicker .ui-datepicker-prev {
435     left: 2px;
436 }
437 .ui-datepicker .ui-datepicker-next {
438     right: 2px;
439 }
440 .ui-datepicker .ui-datepicker-prev-hover {
441     opacity: 0.5;
442 }
443 .ui-datepicker .ui-datepicker-next-hover {
444     opacity: 0.5;
445 }
446 .ui-datepicker .ui-datepicker-prev span,
447 .ui-datepicker .ui-datepicker-next span {
448     display: block;
449     position: absolute;
450     left: 50%;
451     margin-left: -8px;
452     top: 50%;
453     margin-top: -8px;
454 }
455 .ui-datepicker .ui-datepicker-title {
456     margin: 0 2.3em;
457     line-height: 1.8em;
458     text-align: center;
459 }
460 .ui-datepicker .ui-datepicker-title select {
461     font-size: 1em;
462     margin: 1px 0;
463 }
464 .ui-datepicker select.ui-datepicker-month,
465 .ui-datepicker select.ui-datepicker-year {
466     width: 49%;
467 }
468 .ui-datepicker table {
469     width: 100%;
470     font-size: .9em;
471     border-collapse: collapse;
472     margin: 0 0 .4em;
473     border: 1px solid #AAAAAA;
474 }
475 .ui-datepicker th {
476     padding: .7em .3em;
477     text-align: center;
478     font-weight: bold;
479     border: 0;
480 }
481 .ui-datepicker td {
482     border: 0;
483     padding: 1px;
484 }
485 .ui-datepicker td span,
486 .ui-datepicker td a {
487     display: block;
488     padding: .2em;
489     text-align: right;
490     text-decoration: none;
491 }
492 .ui-datepicker .ui-datepicker-buttonpane {
493     background-image: none;
494     margin: .7em 0 0 0;

```

```

495 padding: 0 .2em;
496 border-left: 0;
497 border-right: 0;
498 border-bottom: 0;
499 }
500 .ui-datepicker .ui-datepicker-buttonpane button {
501 float: right;
502 margin: .5em .2em .4em;
503 cursor: pointer;
504 padding: .2em .6em .3em .6em;
505 width: auto;
506 overflow: visible;
507 }
508 .ui-datepicker .ui-datepicker-buttonpane button.ui-datepicker-current {
509 float: left;
510 }
511 }
512 /* with multiple calendars */
513 .ui-datepicker.ui-datepicker-multi {
514 width: auto;
515 }
516 .ui-datepicker-multi .ui-datepicker-group {
517 float: left;
518 }
519 .ui-datepicker-multi .ui-datepicker-group table {
520 width: 95%;
521 margin: 0 auto .4em;
522 }
523 .ui-datepicker-multi-2 .ui-datepicker-group {
524 width: 50%;
525 }
526 .ui-datepicker-multi-3 .ui-datepicker-group {
527 width: 33.3%;
528 }
529 .ui-datepicker-multi-4 .ui-datepicker-group {
530 width: 25%;
531 }
532 .ui-datepicker-multi .ui-datepicker-group-last .ui-datepicker-header,
533 .ui-datepicker-multi .ui-datepicker-group-middle .ui-datepicker-header {
534 border-left-width: 0;
535 }
536 .ui-datepicker-multi .ui-datepicker-buttonpane {
537 clear: left;
538 }
539 .ui-datepicker-row-break {
540 clear: both;
541 width: 100%;
542 font-size: 0;
543 }
544 }
545 /* RTL support */
546 .ui-datepicker-rtl {
547 direction: rtl;
548 }
549 .ui-datepicker-rtl .ui-datepicker-buttonpane {
550 clear: right;
551 }
552 .ui-datepicker-rtl .ui-datepicker-buttonpane button {
553 float: left;
554 }
555 .ui-datepicker-rtl .ui-datepicker-buttonpane button.ui-datepicker-current,
556 .ui-datepicker-rtl .ui-datepicker-group {
557 float: right;
558 }
559 .ui-datepicker-rtl .ui-datepicker-group-last .ui-datepicker-header,
560 .ui-datepicker-rtl .ui-datepicker-group-middle .ui-datepicker-header {
561 border-right-width: 0;
562 border-left-width: 1px;
563 }
564 }
565 /* Component containers
566 -----*/
567 .ui-widget {

```

```

568 font-family: Verdana,Arial,sans-serif;
569 font-size: 1.1em;
570 }
571 .ui-widget .ui-widget {
572 font-size: 1em;
573 }
574 .ui-widget input,
575 .ui-widget select,
576 .ui-widget textarea,
577 .ui-widget button {
578 font-family: Verdana,Arial,sans-serif;
579 font-size: 1em;
580 }
581 .ui-widget-content{
582 border: 0px solid #aaaaaa;
583 background: #ffffff url(images/ui-bg_flat_75_ffffff_40x100.png) 50% 50% repeat-x;
584 color: #222222;
585 }
586 .ui-widget-content a {
587 color: #222222;
588 }
589 .ui-widget-header {
590 border: 1px solid #aaaaaa;
591 background: #cccccc url(images/ui-bg_highlight-soft_75_cccccc_1x100.png) 50% 50%
repeat-x;
592 color: #222222;
593 font-weight: bold;
594 }
595 .ui-widget-header a {
596 color: #222222;
597 }
598
599
600 .ui-icon,
601 .ui-widget-content .ui-icon {
602 background-image: url(images/ui-icons_222222_256x240.png);
603 }
604
605 /* positioning */
606 .ui-icon-circle-triangle-e { background-position: -48px -192px; }
607 .ui-icon-circle-triangle-w { background-position: -80px -192px; }
608
609 div.ui-datepicker{
610 font-size: 12px;
611 }
612
613 .ui-state-disabled {
614 cursor: default !important;
615 }
616
617 .ui-state-disabled,
618 .ui-widget-content .ui-state-disabled,
619 .ui-widget-header .ui-state-disabled {
620 opacity: .35;
621 filter:Alpha(Opacity=35);
622 background-image: none;
623 }

```

Listing 82: style.css

```

1 .ui-helper-hidden {
2 display: none;
3 }
4
5 .ui-helper-hidden-accessible {
6 border: 0;
7 clip: rect(0 0 0 0);
8 height: 1px;
9 margin: -1px;
10 overflow: hidden;

```



```

11 padding: 0;
12 position: absolute;
13 width: 1px;
14 }
15
16 .ui-autocomplete {
17 position: absolute;
18 top: 0;
19 left: 0;
20 cursor: default;
21 }
22
23 .ui-menu {
24 list-style: none;
25 padding: 2px;
26 margin: 0;
27 display: block;
28 outline: none;
29 }
30
31 .ui-menu .ui-menu-divider {
32 margin: 5px -2px 5px -2px;
33 height: 0;
34 font-size: 0;
35 line-height: 0;
36 border-width: 1px 0 0 0;
37 }
38 .ui-menu .ui-menu-item a {
39 text-decoration: none;
40 display: block;
41 padding: 2px .4em;
42 line-height: 1.5;
43 min-height: 0; /* support: IE7 */
44 font-weight: normal;
45 }
46 .ui-menu .ui-menu-item a.ui-state-focus,
47 .ui-menu .ui-menu-item a.ui-state-active {
48 font-weight: normal;
49 margin: -1px;
50 }
51
52 .ui-menu .ui-state-disabled {
53 font-weight: normal;
54 margin: .4em 0 .2em;
55 line-height: 1.5;
56 }
57 .ui-menu .ui-state-disabled a {
58 cursor: default;
59 }
60
61 .ui-selectable-helper {
62 position: absolute;
63 z-index: 100;
64 border: 1px dotted black;
65 }
66
67 /* Component containers
68 -----*/
69
70 .ui-widget-content{
71 border: 1px solid #aaaaaa;
72 background: #ffffff url(images/ui-bg_flat_75_ffffff_40x100.png) 50% 50% repeat-x;
73 color: #222222;
74 }
75
76 .nostyle .ui-widget-content{
77 border: none;
78 }
79
80 .ui-widget-content a {
81 color: #222222;
82 }
83

```

```

84 /* Interaction states
85 -----*/
86 .ui-widget-content .ui-state-default
87 {
88     border: 1px solid #d3d3d3;
89     background: #e6e6e6 url(images/ui-bg_glass_75_e6e6e6_1x400.png) 50% 50% repeat-x;
90     font-weight: normal;
91     color: #555555;
92 }
93
94 .ui-widget-content .ui-state-hover,
95 .ui-widget-content .ui-state-focus{
96     border: 1px solid #999999;
97     background: #dadada url(images/ui-bg_glass_75_dadada_1x400.png) 50% 50% repeat-x;
98     font-weight: normal;
99     color: #212121;
100 }
101
102 .ui-widget-content .ui-state-active{
103     border: 1px solid #aaaaaa;
104     background: #ffffff url(images/ui-bg_glass_65_ffffff_1x400.png) 50% 50% repeat-x;
105     font-weight: normal;
106     color: #212121;
107 }

```

Listing 83: autocomplete.css

6. De-identification Tool

```

1 import java.util.ArrayList;
2 import java.util.Collections;
3 import java.util.List;
4 import java.io.FileReader;
5 import java.io.FileWriter;
6
7 import opencsv.CSVReader;
8 import opencsv.CSVWriter;
9
10 public class Deidentifier {
11
12     private List<String[]> records;
13     private String[] columnHeader;
14
15     public Deidentifier(String filename)
16     {
17         records = new ArrayList<String []>();
18         readCSV(filename);
19         columnHeader = records.get(0);
20         records.remove(0);
21     }
22
23     private void readCSV(String filename)
24     {
25         CSVReader reader;
26         try {
27             reader = new CSVReader(new FileReader(filename));
28             records = reader.readAll();
29             reader.close();
30         }
31         catch (Exception e) {
32             e.printStackTrace();
33         }
34     }
35
36     public int getNoOfFields()
37     {
38         return columnHeader.length;
39     }
40

```

```

41 public int getNoOfRecords()
42 {
43     return records.size();
44 }
45
46 public String[] getHeader()
47 {
48     return columnHeader;
49 }
50
51 public void subsample(int noOfRecords){
52     Collections.shuffle(records);
53     records.subList(noOfRecords, records.size()).clear();
54 }
55
56 public void kAnonymize(int k, int field)
57 {
58     for(int i = 0; i < records.size(); i++)
59     {
60         if(records.get(i)[field].length() > 0)
61             if(!records.get(i)[field].substring(0, 1).equals("@"))
62             {
63                 if(lessThanKOccurence(k, field, records.get(i)[field]))
64                     suppress(field, records.get(i)[field]);
65             }
66     }
67     removeAtSign(field);
68 }
69
70 public boolean lessThanKOccurence(int k, int field, String value)
71 {
72     int counter = 0;
73     for(int i = 0; i < records.size(); i++)
74     {
75         if(records.get(i)[field].equals(value))
76         {
77             counter++;
78             records.get(i)[field] = "@" + value;
79         }
80     }
81     if(counter >= k)
82         return false;
83     return true;
84 }
85
86 public void suppress(int field, String value)
87 {
88     for(int i = 0; i < records.size(); i++)
89     {
90         if(records.get(i)[field].equals(value))
91             records.get(i)[field] = "@-";
92     }
93 }
94
95 public void kAnonymizeMultipleFields(int k, int[] fields)
96 {
97     String[] values = new String[records.size()];
98     for(int i = 0; i < records.size(); i++)
99     {
100         for(int j = 0; j < fields.length; j++)
101         {
102             values[i] += records.get(i)[fields[j]];
103         }
104     }
105
106     for(int i = 0; i < records.size(); i++)
107     {
108         if(!values[i].substring(0, 1).equals("@"))
109         {
110             if(lessThanKOccurence2(k, values, values[i]))
111             {
112                 suppress2(fields, values, values[i]);
113             }

```

```

114     }
115 }
116 for(int i = 0; i < fields.length; i++)
117     removeAtSign(fields[i]);
118 }
119
120 public boolean lessThanKOccurence2(int k, String[] values, String search)
121 {
122     int counter = 0;
123     for(int i = 0; i < records.size(); i++)
124     {
125         if(values[i].equals(search))
126         {
127             counter++;
128             values[i] = "@" + search;
129         }
130     }
131     if(counter >= k)
132         return false;
133     return true;
134 }
135
136 public void suppress2(int[] fields, String[] values, String search)
137 {
138     for(int i = 0; i < records.size(); i++)
139     {
140         if(values[i].equals(search))
141         {
142             for(int j = 0; j < fields.length; j++)
143                 records.get(i)[fields[j]] = "@-";
144         }
145     }
146 }
147
148 public void removeAtSign(int field)
149 {
150     for(int i = 0; i < records.size(); i++)
151     {
152         if(records.get(i)[field].length() > 0)
153             if(records.get(i)[field].substring(0, 1).equals("@"))
154                 records.get(i)[field] = records.get(i)[field].substring(1);
155     }
156 }
157
158 public void pseudonymize(int field)
159 {
160     String pseudonym;
161     for(int i = 0; i < records.size(); i++)
162     {
163         if(records.get(i)[field].length() > 0)
164         {
165             if(!records.get(i)[field].substring(0, 1).equals("@"))
166             {
167                 pseudonym =
168                     '@'+Long.toHexString(Double.doubleToLongBits(Math.random())).substring(6,
169                     14);
170                 replace(i, field, records.get(i)[field], pseudonym);
171             }
172             else
173             {
174                 pseudonym =
175                     '@'+Long.toHexString(Double.doubleToLongBits(Math.random())).substring(6,
176                     14);
177                 replace(i, field, records.get(i)[field], pseudonym);
178             }
179         }
180     }
181 }
182
183 public void replace(int startIndex, int field, String search, String replacement)
184 {
185     for(int i = startIndex; i < records.size(); i++)
186     {

```

```

183         if(records.get(i)[field].equals(search))
184         {
185             records.get(i)[field] = replacement;
186         }
187     }
188 }
189
190 public void swap(int field)
191 {
192     List<String[]> recordsCopy = new ArrayList<String[]>(records);
193     Collections.shuffle(recordsCopy);
194
195     for(int i = 0; i < records.size(); i++)
196     {
197         records.get(i)[field] = recordsCopy.get(i)[field];
198     }
199 }
200
201 public void replaceRandomly(int field)
202 {
203     int random;
204     for(int i = 0; i < records.size(); i++)
205     {
206         random = (int)(Math.random() * (records.size()));
207         records.get(i)[field] = records.get(random)[field];
208     }
209 }
210
211 public void writeCSV(String filename)
212 {
213     CSVWriter writer;
214
215     try {
216         String[] entries;
217         writer = new CSVWriter(new FileWriter(filename), ',');
218         entries = columnHeader;
219         writer.writeNext(entries);
220
221         for(int i = 0; i < records.size(); i++)
222         {
223             entries = records.get(i);
224             writer.writeNext(entries);
225         }
226         writer.close();
227     }
228
229     catch (Exception e) {
230         e.printStackTrace();
231     }
232 }
233 }

```

Listing 84: Deidentifier.java

```

1 import java.awt.Color;
2 import java.awt.Component;
3 import java.awt.Font;
4 import java.awt.GridLayout;
5 import java.awt.Insets;
6 import java.awt.Toolkit;
7 import java.awt.event.ActionEvent;
8 import java.awt.event.ActionListener;
9 import java.io.File;
10
11 import javax.swing.ImageIcon;
12 import javax.swing.JButton;
13 import javax.swing.JCheckBox;
14 import javax.swing.JFileChooser;
15 import javax.swing.JFrame;
16 import javax.swing.JLabel;

```

```

17 import javax.swing.JMenu;
18 import javax.swing.JMenuBar;
19 import javax.swing.JMenuItem;
20 import javax.swing.JOptionPane;
21 import javax.swing.JPanel;
22 import javax.swing.JScrollPane;
23 import javax.swing.JTextField;
24 import javax.swing.UIManager;
25 import javax.swing.UnsupportedLookAndFeelException;
26 import javax.swing.border.TitledBorder;
27
28 import SplashScreen.SplashScreen;
29
30
31 @SuppressWarnings("serial")
32 public class DeidentificationTool extends JFrame implements ActionListener{
33
34     private Deidentifier deidentifier;
35     private JFileChooser fileChooser = new JFileChooser();
36     private JMenu fileMenu = new JMenu("File"), helpMenu = new JMenu("Help");
37     private JMenuBar menuBar = new JMenuBar();
38     private JMenuItem openFile = new JMenuItem("Open File"),
39         instruction = new JMenuItem("Instructions"),
40         about = new JMenuItem("About De-identification Tool"),
41         exit = new JMenuItem("Exit");
42     private JPanel mainPanel = new JPanel(), pseudoPanel = new JPanel(new
        GridLayout(0,1)), randomPanel = new JPanel(new GridLayout(0,1)), swapPanel =
        new JPanel(new GridLayout(0,1)),
43     kPanel = new JPanel(new GridLayout(0,1)), kValuePanel = new JPanel(),
        methodsPanel, panel = new JPanel();
44     private JLabel info = new JLabel(),
45         csvFileLabel = new JLabel("Input File:"),
46         subsamplingLabel = new JLabel("Number of records to disclose:"),
47         kLabel = new JLabel("k value:");
48     private JTextField inputFile = new JTextField(),
49         noOfRecordsField = new JTextField(),
50         kField = new JTextField("", 9);
51     private JButton deidentifyButton = new JButton("De-identify");
52     private String instructionMessage = "<html>" +
53         "<br> 1. Open the CSV file containing all the records to be
54         de-identified. <br> " +
55         "<br> 2. Enter the number of records to be disclosed. It
56         must not exceed the total number of records. <br> " +
57         "<br> 3. Check the fields to be de-identified under each
58         de-identification method. <br>" +
59         "<br> 4. Click the 'De-identify' button. <br> "+
60         "<br> 5. Enter the filename of the csv file that will
61         contain the de-identified data set and click save. <br>
62         "+
63         "</html>";
64     private JCheckBox[] pseudoChecks, randomChecks, swapChecks, kChecks;
65     private JScrollPane pseudoPane, randomPane, swapPane, kPane;
66
67     private static final Font PLAIN_FONT = new Font("Arial", Font.PLAIN, 12);
68     private SplashScreen splash;
69
70     public DeidentificationTool(boolean firstLaunch, String inputFilename)
71     {
72         super("De-identification Tool");
73         setSize(830, 620);
74         setResizable(false);
75
76         fileMenu.setFont(PLAIN_FONT);
77         openFile.addActionListener(this);
78         openFile.setFont(PLAIN_FONT);
79         openFile.setIcon(new
80             ImageIcon(this.getClass().getResource("images/open.png")));
81         fileMenu.add(openFile);
82         exit.addActionListener(this);
83         exit.setFont(PLAIN_FONT);
84         exit.setIcon(new ImageIcon(this.getClass().getResource("images/exit.png")));
85         fileMenu.add(exit);
86         menuBar.add(fileMenu);

```

```

81
82 helpMenu.setFont (PLAIN_FONT);
83     instruction.addActionListener (this);
84     instruction.setFont (PLAIN_FONT);
85     instruction.setIcon (new
86         ImageIcon (this.getClass ().getResource ("images/help.png"));
87     helpMenu.add (instruction);
88     about.addActionListener (this);
89     about.setFont (PLAIN_FONT);
90     about.setIcon (new
91         ImageIcon (this.getClass ().getResource ("images/about.png"));
92     helpMenu.add (about);
93     menuBar.add (helpMenu);
94     this.setJMenuBar (menuBar);
95
96     mainPanel = new JPanel ();
97     mainPanel.setLayout (null);
98
99     if (firstLaunch)
100     {
101         info.setFont (PLAIN_FONT);
102         info.setText ("Open a CSV file to start.");
103         info.setBounds (10, 15, 700, 15);
104         mainPanel.add (info);
105     }
106     else
107     {
108         try{
109             loadCSV (inputFilename);
110         }
111         catch (Exception e){
112             info.setText ("Out of memory.");
113         }
114     }
115     add (mainPanel);
116     setLocationRelativeTo (null);
117     setIconImage (new
118         ImageIcon (this.getClass ().getResource ("images/icon.png")).getImage ());
119
120     if (firstLaunch)
121     {
122         splash = new SplashScreen ();
123         while (splash.visible)
124         {}
125     }
126     setVisible (true);
127     setDefaultCloseOperation (JFrame.EXIT_ON_CLOSE);
128 }
129
130 private void loadCSV (String inputFilename)
131 {
132     deidentifier = new Deidentifier (inputFilename);
133
134     panel = new JPanel ();
135     panel.setLayout (null);
136     info.setFont (PLAIN_FONT);
137     info.setText ("Choose the de-identification methods to be used.");
138     panel.add (info);
139     info.setBounds (15, 15, 750, 20);
140     panel.setBounds (15, 10, 780, 50);
141     TitledBorder border = new TitledBorder (null, " ", TitledBorder.LEADING,
142         TitledBorder.TOP, null, null);
143     border.setTitleFont (PLAIN_FONT);
144     panel.setBorder (border);
145     mainPanel.add (panel);
146
147     JPanel panel2 = new JPanel ();
148     panel2.setLayout (null);
149     csvFileLabel.setFont (PLAIN_FONT);
150     csvFileLabel.setBounds (10, 20, 80, 22);
151     panel2.add (csvFileLabel);
152     inputFile.setBounds (80, 20, 360, 22);

```

```

150     inputFile.setText(inputFilename);
151     inputFile.setEditable(false);
152     inputFile.setBackground(Color.white);
153     panel2.add(inputFile);
154
155     subsamplingLabel.setBounds(480, 20, 200, 22);
156     subsamplingLabel.setFont(PLAIN_FONT);
157     panel2.add(subsamplingLabel);
158
159     noOfRecordsField.setBounds(660, 20, 80, 22);
160     noOfRecordsField.setFont(PLAIN_FONT);
161     panel2.add(noOfRecordsField);
162     panel2.setBounds(15, 65, 780, 60);
163     border = new TitledBorder(null, "Subsampling", TitledBorder.LEADING,
164         TitledBorder.TOP, null, null);
165     border.setTitleFont(PLAIN_FONT);
166     panel2.setBorder(border);
167     mainPanel.add(panel2);
168
169     GridLayout layout = new GridLayout(1,4);
170     layout.setHgap(20);
171     layout.setVgap(5);
172     methodsPanel = new JPanel(layout);
173
174     kLabel.setBounds(0, 0, 10, 22);
175     kValuePanel.add(kLabel);
176     kField.setBounds(30, 0, 30, 22);
177     kValuePanel.add(kField);
178     kPanel.add(kValuePanel);
179
180     randomChecks = new JCheckBox[deidentifier.getNoOfFields()];
181     swapChecks = new JCheckBox[deidentifier.getNoOfFields()];
182     pseudoChecks = new JCheckBox[deidentifier.getNoOfFields()];
183     kChecks = new JCheckBox[deidentifier.getNoOfFields()];
184
185     for(int i = 0; i < deidentifier.getNoOfFields(); i++)
186     {
187         randomChecks[i] = new JCheckBox(deidentifier.getHeader()[i]);
188         randomPanel.add(randomChecks[i]);
189         swapChecks[i] = new JCheckBox(deidentifier.getHeader()[i]);
190         swapPanel.add(swapChecks[i]);
191         pseudoChecks[i] = new JCheckBox(deidentifier.getHeader()[i]);
192         pseudoPanel.add(pseudoChecks[i]);
193         kChecks[i] = new JCheckBox(deidentifier.getHeader()[i]);
194         kPanel.add(kChecks[i]);
195     }
196
197     randomPane = new JScrollPane(randomPanel);
198     randomPane.setViewportBorder(new TitledBorder(null, "Random Replacement",
199         TitledBorder.LEADING, TitledBorder.TOP, null, null));
200     methodsPanel.add(randomPane);
201
202     swapPane = new JScrollPane(swapPanel);
203     swapPane.setViewportBorder(new TitledBorder(null, "Swapping",
204         TitledBorder.LEADING, TitledBorder.TOP, null, null));
205     methodsPanel.add(swapPane);
206
207     pseudoPane = new JScrollPane(pseudoPanel);
208     pseudoPane.setViewportBorder(new TitledBorder(null, "Pseudonymization",
209         TitledBorder.LEADING, TitledBorder.TOP, null, null));
210     methodsPanel.add(pseudoPane);
211
212     kPane = new JScrollPane(kPanel);
213     kPane.setViewportBorder(new TitledBorder(null, "k-Anonymization",
214         TitledBorder.LEADING, TitledBorder.TOP, null, null));
215     methodsPanel.add(kPane);
216
217     border = new TitledBorder("De-identification Methods")
218     {
219         private Insets customInsets = new Insets(25, 10, 10, 10);
220         public Insets getBorderInsets(Component c)
221         {
222             return customInsets;

```



```

222     }
223 };
224 border.setTitleFont(PLAIN_FONT);
225 methodsPanel.setBorder(border);
226 methodsPanel.setBounds(15, 130, 780, 380);
227
228 mainPanel.add(methodsPanel);
229
230 deidentifyButton.setBounds(690, 518, 105, 25);
231 deidentifyButton.addActionListener(this);
232 deidentifyButton.setIcon(new
    ImageIcon(this.getClass().getResource("images/save.png")));
233 mainPanel.add(deidentifyButton);
234 }
235
236 public void actionPerformed(ActionEvent e)
237 {
238     if(e.getSource().equals(openFile))
239     {
240         int val = fileChooser.showOpenDialog(this);
241         if (val == JFileChooser.APPROVE_OPTION)
242         {
243             new DeidentificationTool(false,
                fileChooser.getCurrentDirectory().toString() + "\\ " +
                fileChooser.getSelectedFile().getName());
244             setVisible(false);
245         }
246     }
247     else if(e.getSource().equals(exit))
248         System.exit(0);
249     else if(e.getSource().equals(instruction))
250     {
251         UIManager.put("OptionPane.messageFont", PLAIN_FONT);
252         JOptionPane.showMessageDialog(this, instructionMessage, "Instruction",
            JOptionPane.PLAIN_MESSAGE);
253     }
254     else if(e.getSource().equals(about))
255     {
256         UIManager.put("OptionPane.messageFont", PLAIN_FONT);
257         JOptionPane.showMessageDialog(this, "<html>De-identification Tool <br><br>
            Version: 1.0 <br> Developed by: Liezl Santos <br><br> This application
            is used to de-identify records in CSV format.</html>", "About
            De-identification Tool", JOptionPane.PLAIN_MESSAGE);
258     }
259     else if(e.getSource().equals(deidentifyButton))
260     {
261         if(!noOfRecordsField.getText().equals(""))
262         {
263             try{
264                 int noOfRecords = Integer.parseInt(noOfRecordsField.getText());
265                 if(noOfRecords > deidentifier.getNoOfRecords() || noOfRecords < 1)
266                 {
267                     info.setText("No. of records to be disclosed must be a number from
                        (1-"+ deidentifier.getNoOfRecords() +")");
268                     Toolkit.getDefaultToolkit().beep();
269                     return;
270                 }
271             }
272             catch (Exception a){
273                 info.setText("No. of records to be disclosed is not a valid number.");
274                 Toolkit.getDefaultToolkit().beep();
275                 return;
276             }
277         }
278         if(!kField.getText().equals(""))
279         {
280             try{
281                 int k = Integer.parseInt(kField.getText());
282                 if(k > deidentifier.getNoOfRecords())
283                 {
284                     info.setText("<html><i>k</i> must not exceed the total no. of
                        records.</html>");
285                     Toolkit.getDefaultToolkit().beep();

```

```

286         return;
287     }
288 }
289 catch (Exception a){
290     info.setText("<html>Invalid <i>k</i> value. </html>");
291     Toolkit.getDefaultToolkit().beep();
292     return;
293 }
294 }
295 if(kField.getText().equals("") && hasChecked(kChecks))
296 {
297     info.setText("<html>Input <i>k</i> value. </html>");
298     Toolkit.getDefaultToolkit().beep();
299     return;
300 }
301 else
302 {
303     if(!noOfRecordsField.getText().equals(""))
304         deidentifier.subsample(Integer.parseInt(noOfRecordsField.getText()));
305
306     int noOfKChecks = 0;
307
308     for(int i = 0; i < randomChecks.length; i++)
309     {
310         if(randomChecks[i].isSelected())
311             deidentifier.replaceRandomly(i);
312         if(swapChecks[i].isSelected())
313             deidentifier.swap(i);
314         if(pseudoChecks[i].isSelected())
315             deidentifier.pseudonymize(i);
316         if(kChecks[i].isSelected())
317         {
318             deidentifier.kAnonymize(Integer.parseInt(kField.getText()), i);
319             noOfKChecks++;
320         }
321     }
322     int[] fields = new int[noOfKChecks];
323     int j = 0;
324     for(int i = 0; i < randomChecks.length; i++)
325     {
326         if(kChecks[i].isSelected())
327         {
328             fields[j] = i;
329             j++;
330         }
331     }
332     if(!kField.getText().equals(""))
333         deidentifier.kAnonymizeMultipleFields(Integer.parseInt(kField.getText()),
334             fields);
335
336     fileChooser.setSelectedFile(new File("de-identified data set.csv"));
337     int rVal = fileChooser.showSaveDialog(this);
338     if (rVal == JFileChooser.APPROVE_OPTION) {
339         File f = new File(fileChooser.getCurrentDirectory().toString() + "\\\"
340             + fileChooser.getSelectedFile().getName());
341         if(!f.exists() && !f.isDirectory())
342         {
343             deidentifier.writeCSV(fileChooser.getCurrentDirectory().toString() +
344                 "\\\" + fileChooser.getSelectedFile().getName());
345             info.setText("File saved.");
346         }
347         else
348         {
349             int value = JOptionPane.showConfirmDialog(fileChooser,
350                 fileChooser.getSelectedFile().getName() + " already exists. \r\n
351                 Do you want to replace it?", "Confirm Save As",
352                 JOptionPane.YES_NO_OPTION);
353             if (value == JOptionPane.YES_OPTION)
354             {
355                 deidentifier.writeCSV(fileChooser.getCurrentDirectory().toString() +
356                     "\\\" + fileChooser.getSelectedFile().getName());
357                 info.setText("File saved.");
358                 inputFile.setText(fileChooser.getCurrentDirectory().toString() +

```

```

        "\\\" + fileChooser.getSelectedFile().getName());
352     }
353     }
354 }
355 }
356 }
357 }
358
359 public boolean hasChecked(JCheckBox[] checkboxes)
360 {
361     for (int i = 0; i < checkboxes.length; i++)
362     {
363         if (checkboxes[i].isSelected())
364             return true;
365     }
366     return false;
367 }
368
369 public static void main(String[] args)
370 {
371     try {
372         javax.swing.UIManager.setLookAndFeel(
373             javax.swing.UIManager.getSystemLookAndFeelClassName());
374     } catch (UnsupportedLookAndFeelException | ClassNotFoundException |
375             InstantiationException | IllegalAccessException e1) {
376     }
377     new DeidentificationTool(true, "");
378 }

```

Listing 85: DeidentificationTool.java

```

1 package SplashScreen;
2
3 import java.awt.BorderLayout;
4 import java.awt.Color;
5 import java.awt.EventQueue;
6 import java.awt.GridBagLayout;
7
8 import javax.swing.BorderFactory;
9 import javax.swing.ImageIcon;
10 import javax.swing.JLabel;
11 import javax.swing.JPanel;
12 import javax.swing.JWindow;
13 import javax.swing.SwingWorker;
14 import javax.swing.UIManager;
15 import javax.swing.UnsupportedLookAndFeelException;
16
17 @SuppressWarnings("serial")
18 public class SplashScreen extends JWindow {
19
20     public boolean visible = true;
21
22     public SplashScreen() {
23         EventQueue.invokeLater(new Runnable() {
24             @Override
25             public void run() {
26                 try {
27                     UIManager.setLookAndFeel(UIManager.getSystemLookAndFeelClassName());
28                 } catch (ClassNotFoundException | InstantiationException |
29                     IllegalAccessException | UnsupportedLookAndFeelException ex) {
30                     ex.printStackTrace();
31                 }
32                 showSplash();
33             }
34         });
35     }
36     public void showSplash() {

```

```

37     JPanel content = (JPanel) getContentPane();
38     content.setBorder(BorderFactory.createLineBorder(Color.lightGray, 1));
39
40     setSize(450, 250);
41     setLocationRelativeTo(null);
42
43     JLabel label = new JLabel(new
44         ImageIcon(getClass().getResource("splash.png")));
45     content.add(label, BorderLayout.CENTER);
46     label.setLayout(new GridBagLayout());
47
48     setVisible(true);
49     toFront();
50
51     new ResourceLoader().execute();
52 }
53
54 public class ResourceLoader extends SwingWorker<Object, Object> {
55     @Override
56     protected Object doInBackground() throws Exception {
57         try {
58             Thread.sleep(1500);
59         } catch (Exception e) {
60             return null;
61         }
62     }
63     @Override
64     protected void done() {
65         visible = false;
66         setVisible(false);
67     }
68 }

```

Listing 86: SplashScreen.java

XII. Acknowledgment

“Everything’s ready for it. We had our photo shoot for the year book. And in no time we’re going to submit our application for graduation. Yes, no doubt. The BIG day is coming. And God knows how I want to be a part of it too. I always try to be optimistic but that has limit as well. *Himdeul-eoyo...*”

The day I was writing this post on my blog was still so vivid. That gloomy, worried Liezl, I can still remember. And now, here I am, writing for the acknowledgment section of my thesis. Yay! My birthday, my daily 11:11 and my *Misa de Gallo* wish indeed came true!

This can’t be called acknowledgment if I don’t thank my adivser – Richard Bryann Chua, here. Thank you, sir for all the pieces of advice and the time you allotted not just for regular consultations but to check my works as well. I really appreciated it. You did so much for this SP much, much more than what an adviser should.

I would also like to thank my family for the love and support. You guys are amazing! Ma, Dade, Ate, li’l sis, I’m so grateful to you. I don’t want to suddenly be an expressive type of person here ’cause that was really not me. *Basta alam niyo na ’yun.*

Block 12 (2010) friends plus our *ate*’s and *kuya*’s, thanks for all the bonding moments. I was able to enjoy my undergrad days because of you. *Salamat sa nakakabaliw na mga kwento at sa tila walang katapusang tawa...saya.* To my dearest friends, thank you...thanks for being true ones. So glad to meet good people like you. I will miss all the times we spent together and your yearly birthday surprises! Haha. You will always be my precious friends.

You’ve always been good to me to the point that sometimes I think I don’t deserve this anymore. I’ve always been blessed and I thank You for that, so very much. My prayers were answered and I’m glad.

UP Life? Yes, it’s full of uncertainties...but that’s what makes it so exciting! Happy graduation! Congrats to all of us! *Aja, aja! Gambatte!*