University of the Philippines Manila
College of Arts and Sciences
Department of Physical Sciences and Mathematics

Developing a Dental Information System with OpenMRS (Open DentIS)

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

Submitted by:

Lee, Aurielle Junine Taqueban
2007-03947

April, 2011

ACCEPTANCE SHEET

The special problem entitled "*Developing a Dental Information System with OpenMRS*" prepared and submitted by *Aurielle Junine T. Lee* in partial fulfillment of the requirements for the degree of Bachelor of Science in Computer Science has been examined and is recommended for acceptance.

_____
Richard Bryann L. Chua, M.Sc.
Adviser

EXAMINERS	APPROVED	DISAPPROVED
1. Gregorio B. Baes, Ph.D. (candidate)	_____	_____
2. Avegail D. Carpio, M.Sc.	_____	_____
3. Aldrich Colin K. Co., M.Sc. (candidate)	_____	_____
4. Vincent Peter C. Magboo, M.D., M.Sc.	_____	_____
5. Ma. Sheila A. Magboo, M.Sc.	_____	_____
6. Geoffrey A. Solano, M.Sc.	_____	_____
7. Bernie B. Terrado, M.Sc. (candidate)	_____	_____

_____
Date

Accepted and approved as partial fulfillment of the requirements for the degree of Bachelor of Science in Computer Science

_____
Geoffrey A. Solano, M.Sc.
Unit Head
Mathematical and Computing Sciences Unit
Department of Physical Sciences and Mathematics

_____
Marcelina B. Lirazan, Ph.D.
Chair
Department of Physical Sciences and Mathematics

_____
Reynaldo H. Imperial, Ph.D.
Dean
College of Arts and Sciences

Abstract

Developing a Dental Information with OpenMRS, Open DentIS, offers to provide UPCD clinicians free and high quality electronic dental records system. These dental records are shared via network.

The electronic dental records, which are securely organized, can be stored and accessed easily and quickly compared to paper dental records. Moreover, the system provides a graphical representation of the teeth. Drawings and color representations are added with just a few clicks.

Open DentIS also offers to increase access to the information in dental records making it easier for clinicians to look for patients with a specific kind of disease or patients who need a certain kind of treatment.

To be able to keep track of changes made in the dental records, the system used an archiving feature. This way, comparisons are easily made among the dental records of the patient. A record views log is also applied in order to keep track of the clinicians who view dental records.

Lastly, Open DentIS makes use of OpenMRS' concept dictionary feature by creating a dental lexicon based on the UP College of Dentistry terminologies in order to standardize the dental terms.

Keywords: Dentistry, Dental Information System, OpenMRS

Table of Contents

I. INTRODUCTION

A. Background of the Study

A person's overall health can be affected by dental hygiene. Proper nutrition can be associated with healthy teeth; meanwhile, unhygienic teeth and gums can lead to oral diseases like tooth decay and halitosis. Healthy teeth also add up to an individual's well-being and confidence because having a pleasing smile and appearance of the teeth exhibits proper dental hygiene. Dentistry plays a major role in an individual's dental hygiene.

According to the World Health Organization, Dentistry is the science and art of preventing, diagnosing and treating diseases, injuries and malformations of the teeth, jaws, and mouth [1].

Established in 1915, the University of the Philippines College of Dentistry (UPCD) offers an undergraduate degree program in Dentistry. The college is divided into three departments – Basic Health Sciences, Clinical Dental Health Sciences, and Community Dentistry. Under the Clinical Dental Health Sciences department, students are trained hands-on. The department uses forms which patients fill out and serve as dental records.

Electronic health records are now becoming a trend since they are assumed to be easier and faster to use. According to the College of Dentistry dean, Dr. Vicente O. Medina III, the college used to have a software, created by UP Manila Computer Science students, which stores electronic dental records. Unfortunately, it was reported to have bugs. The staff tried to reformat the computer but they were not able to retrieve the software anymore.

At present, a number of medical software can be found and downloaded online. Some examples of dental software include OpenDental, Dentrix, Innobate, Oasys, and KodakDental. These applications offer a graphical representation of the dental status chart where the clinicians or dentists can specify the condition of each tooth. The features of these applications are very similar to UPCD's dental status chart, on paper, where corresponding conditions of each tooth are marked and indicated in a diagram of tooth surfaces.

There are a large number of dental applications found online however, they are not for free and are actually very expensive. Furthermore, they are stand alone software. The records cannot be shared through a network. Moreover, free open-source electronic health records applications can be found and downloaded online, examples of which are Open Medical Record System (OpenMRS) and Open Electronic Medical Records (OpenEMR). These applications are helpful in the standardization of different medical terms and definitions.

B. Statement of the Problem

The Department of Clinical Dental Health Sciences of the University of the Philippines College of Dentistry (UPCD) fosters and trains student clinicians under the supervision of faculty members through hands-on experience with patients. The department provides forms to be filled out by patients which serve as dental records. The UPCD used to have a software, created by Computer Science students for the CMSC 128 Software Engineering subject, which stores the dental records of the patients but it was reported to have bugs. In an attempt to fix the bugs, the staff tried to reformat the computer. Unfortunately, the software was erased. They were not able to recover it again.

Another problem encountered by the UPCD is that researchers are having a hard time getting sufficient and accurate data on patients' information, dental diseases, and findings. Thus, in some cases, researchers from the College of Dentistry are discouraged on continuing their research. Electronic dental records provide easier access to patients' information and dental findings. Reports regarding the statistics of certain patient information, dental diseases, and findings may be generated from the electronic dental records easier and faster which will be helpful to dental researchers.

In line with electronic dental records and applications, a number of dental software can be found online but they are expensive and dental records cannot be shared via network. The cost of the software alone ranges from $8,000 - $13,000 [9]. Therefore, the UP College of Dentistry must have inexpensive network-based software that stores the patients' dental records. Aside from creating, deleting, and editing patient records, the software must have a graphical representation of the teeth for the dental status chart.

C. Objectives

The objectives of this project are:

1. to create a dental lexicon based on the terminologies used by University of the Philippines College of Dentistry
2. to create a dental information system that will have the following functionalities:

    a. allow clinician roles to

        i. manage the following fields of the patient record:

1) the admitting section patient record which includes the patient's chief complaint, history of present illness, dental history, physical assessment, vital signs, medical history, and social history (refer to Appendices A, B, and C).

2) the soft tissue examination findings (refer to Appendix D)

3) the dental status chart (refer to Appendices E and F)

4) the problem list worksheet (refer to Appendix G)

5) the radiographic exam findings (refer to Appendix H)

6) consultation and referrals chart (refer to Appendix I)

ii. generate reports based on specific fields of patient records such as:

1) patient demographics

2) medical history

3) social history

4) dental status chart

5) dental services needed

b. allow the administrator to

i. manage user accounts

ii. assign user roles (clinician, administrator)

c. allow the system to

i. create archive of previous dental records for future references

ii. keep a record of clinicians who access and view dental records

D. Significance of the Study

This dental information system would give clinicians easy access to patient's records, compared to the manual records that they are using now. Clinicians of UPCD would be able to share the records via network. It would be easier and faster to look for patient records for future references. In just a few clicks, the student clinicians and researchers would be able to access the data faster and generate significant reports as compared to paper dental records which usually take more time since records are searched manually. Moreover, tracking the changes in the dental records would be easier. The system offers an archive of previous dental records of the patient, making comparison of the latest dental record to previous versions of dental records possible. Loss of records would also be avoided.

The system would also make the records more organized and secured as compared to paper dental records. Patients can be organized through patient identifiers or identification numbers in the system. Moreover, the user accounts in the system are given only to authorized clinicians. All of the authorized clinicians are allowed to access the dental records; therefore, the system would provide a record views log to keep track of the clinicians viewing the dental records.

This system would be beneficial to patients because they will no longer be asked to fill out and update the forms every time they visit because the clinicians are responsible for inputting the patient information.

The integration of open-source medical records system, specifically the OpenMRS whose goal is to provide the development of electronic medical records for all groups involved with

health care in developing countries, in a dental information system would help in the standardization of different dental terms and definitions of the UP College of Dentistry.

E. Scope and Limitation

1. The dental information system would be based on the University of the Philippines College of Dentistry terminologies.
2. The dental information system will use OpenMRS as its electronic medical record architecture
3. Majority of the functionalities of the dental information system will be built as an OpenMRS module.
4. Only the latest version of the patient's dental record could be updated.

II. REVIEW OF RELATED LITERATURE

Dentistry is the science and art of preventing, diagnosing and treating diseases, injuries and malformations of the teeth, jaws, and mouth [1]. It plays an important role in an individual's dental hygiene. Recording accurate patient information is very essential in dentistry. Also referred to as the patient's chart, dental record is the legitimate document that records all diagnostic information, clinical notes, treatments performed, services rendered and patient-related communications that occur in the dental clinic [2]. Dental record may also include consents to dental treatments as well as instructions for home care dental hygiene practices. The patient dental record is considered as one of the essential components of hygiene practice and must therefore, be securely filed and organized for many reasons.

Dental records play a major role in providing the best possible care for patients. They are used to document the flow of treatments. They are also used to provide data for the assessment of quality care which is given to patients. In addition to this, dental records are used as channels of communication between the current dentist and any other doctor who will treat the patient. Dental records that contain complete and precise information give other providers enough knowledge of the patient's dental history of encounters [2].

Several dental clinics use the traditional paper charts and most dentists write notes in paper dental records. The records usually include a patient's registration form with all the basic personal information. In the UPCD Admitting Section Patient Form, information such as the patient's chief complaint, history of present illness, dental history, vital signs, medical history, social history, dental status chart, soft tissue examination findings, and proposed treatment plan can be seen.

Generally, patient records are housed in file folders for protection. The files are then arranged in a way for easy retrieval [2]. However, a number of dentists at present are already using computerized systems to maintain patient dental records. Electronic dental records offer a promising deal for increasing access to the information in dental records, but only a fairly small number of dentists use electronic dental records at present [3]. Electronic dental records also have the potential to reduce barriers in obtaining dental data for researchers. According to [3], some of the hindrances in data collection are the lack of a standard dental records system and high cost of extracting and summarizing information from paper dental records.

The word "informatics," according to the Merriam-Webster's dictionary, originated from the term "information science," which refers to the collection, classification, storage, retrieval and dissemination of recorded knowledge treated both as a pure and applied science. Information science, when applied to a specific domain like dentistry, becomes informatics [4]. Dental informatics is defined as the application of computer and information science to improve dental practice, research and program administration [5]. It is still a young and under developed scientific discipline. Dental informatics has gone through a number of developments since early computers were first utilized to resolve problems in dental practice, education, and research. Various signs show that dental informatics is progressing as a field of specialty. Nevertheless, challenges that may cause delay in dental informatics' growth and development continue to surface [6].

One of the major challenges that dental informatics faces is that even though there are numerous advances in the automation of medical records, there is little or no utility for dentistry at all. Dental informatics is considered a branch of medical informatics and a number of

processes, approaches, representations and applications can be shared between the two disciplines. Despite this fact, there is little or no utility for dentistry. For instance, representational schemes and standards for clinical data, such as the SNOMED, the ICD, and HL-7, typically don't represent dental concepts and data very well [7]. Because of this, there is no standardized controlled clinical terminology to describe dental signs, symptoms, conditions, diseases, and treatments [7].

A number of dental software programs with features like electronic transmission of patient records with graphical representations can be downloaded online. Some commercial dental computer-based records systems include Dentrix, OpenDental, Practice-Works, SoftDent, Innobate, Oasys, and Eagle-Soft.

Developed by Henry Schein Practice Solutions, Dentrix has been one of the top software programs in practice management technology with almost 30,000 installations and 20 years of experience [8]. Dentrix has a wide range of features including patient scheduling through its appointment book, patient billing and insurance management, referral tracking, clinical charting where dentists can add procedures, notes, and patient information. Although Dentrix has promising features, the software alone costs around $8,000-$13,000 [9]. Like Dentrix, most of the dental software programs available online such as SoftDent, Oasys, Innobate, OpenDental, offer promising features like patient appointment scheduling, patient billing, and clinical charting. These applications also offer a graphical representation of the dental status chart where the clinicians or dentists can specify the condition of each tooth. Developing complete but easily accessible electronic dental records that include modern and expert clinical data and 2D or 3D

visual representation capabilities is a promising direction [10]. The problem is these software programs are expensive [11, 12, 13, 14].

Jha et al. mentioned in a study that the adoption rate of Computer-based Patient Records (CPRs) or electronic patient records by clinicians and practitioners in both medical and dental fields is low [15]. Early evidences show that poor usability and the consequential loss of time and productivity are the main factors for the low adoption rate of CPRs. According to a study conducted by Thyvalikakath et al. where 4 dental software programs (Dentrix, Practice-Works, SoftDent, Eagle-Soft) are compared, the software applications seemed to overwhelm most users and appeared to be responsible for a large number of task failures [15]. Also, the software applications have labels, objects and functions with similar graphical designs or intent which led to the confusion of many users. For instance, SoftDent's graphical design is confusing because both permanent and primary teeth are displayed in the chart by default. Information that belongs to a specific task context should be shown together or be easily accessible [15]. In another study by Schleyer et al., another reason why papers persist even in dental clinics that have already implemented CPRs is because commercial software often cannot accommodate all types of patient information that the dentist wants to record [16].

Open-source medical records system is another technology emerging in the medical field. Electronic medical record systems have been installed in many institutions to support health care management, quality improvement, and research. EMR systems are shown to be possible in developing countries but one of the problems encountered is the scarcity of resources. The starting cost of setting up an electronic medical records system is enormous. Aside from buying equipment and hardware devices, training clinicians in using such system can also be expensive.

In addition to this, a large effort is needed to convert all paper medical records to electronic form [17]. Nevertheless, improvements in the IT industry have greatly reduced the costs of setting up information systems.

Open Medical Record System (OpenMRS), formed in 2004, is an open-source platform where electronic medical records are created and accessed. The goal of this implementation is to provide the beginnings of an EMR that is suitable for all groups involved with healthcare in developing countries [18]. Led by Regenstrief Institute, Inc., a world-renowned leader in medical informatics research, and Partners in Health, a Boston-based philanthropic organization, OpenMRS focuses on improving the lives of underprivileged people around the world through health care service and support. At present, OpenMRS has been implemented in twenty countries worldwide which include South Africa, Kenya, Rwanda, Lesotho, Zimbabwe, Mozambique, Uganda, Tanzania, Haiti, India, China, United States, Pakistan, and the Philippines.

III. THEORETICAL FRAMEWORK

A. Medical Informatics

According to Dr. Morris F. Collen, a pioneer in improving health care by linking it to computers, medical informatics is the application of computers, communications and information technology and systems to all fields of medicine - medical care, medical education and medical research. Meanwhile, Association of American Medical Colleges defined medical informatics as a developing body of knowledge and a set of techniques concerning the organizational management of information in support of medical research, education, and patient care. Medical informatics combines medical science with several technologies and disciplines in the information and computer sciences and provides methodologies by which these can contribute to better use of the medical knowledge base and ultimately to better medical care.

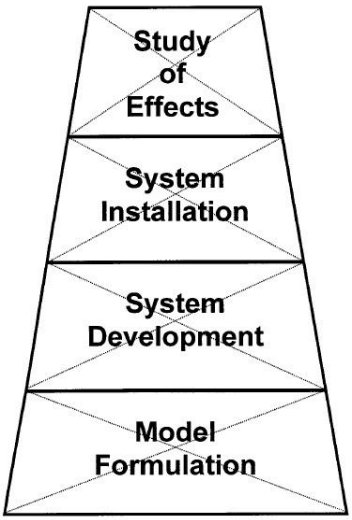


Figure 1. Friedman's Tower of Science in Biomedical Informatics [7]

Figure 1 shows the tower of science in biomedical informatics by Friedman. At the lowest level of the tower, Model formulation is concerned with developing theories and real-world abstractions using models that describe objects, concepts, or methods in the biomedical domain. For example, the Medical Subject Headings (MeSH), a key part of the MEDLINE database, represent objects and concepts, such as diseases and anatomical structures that professionals in biomedicine deal with on a daily basis. Once a model has been formulated, the next step is to develop a computing system that implements the model and allows end users to interact with it. After the system has been developed, it must be installed. The top level of Friedman's tower is the study of effects. Informaticians at this level carry out formal studies regarding the effects of the implemented system [7].

Since health care encompasses several aspects such as public health, nursing, and dentistry, medical informatics also has a number of branches including public health informatics, nursing informatics, and dental informatics [22].

B. Dental Informatics

Dental informatics, a branch of medical informatics, is defined as the application of computer and information science to improve dental practice, research and program administration [5]. Despite the fact that dental informatics is a fundamental and developing branch of medical informatics, informaticians working in other fields do not usually provide instant solutions for dental informatics problem. For instance, in medicine, there is a large progress regarding the use of electronic patient records in hospitals and health centers. However, this large progress in medicine contributes little or

no progress at all for dental practice [6]. This only shows that dental informatics is relatively a young discipline that is still undergoing developments and maturation.

The primary objective of dental informatics is to improve patient outcomes. In order to achieve this, dental informatics must support and improve diagnosis, treatment and prevention of disease and traumatic injury, relieve pain, and preserve and improve oral health. Another objective of dental informatics is to make the delivery of dental care more efficient. Dental informatics should also be able to support research and education. Improvements in these areas would result to improved patient care [4].

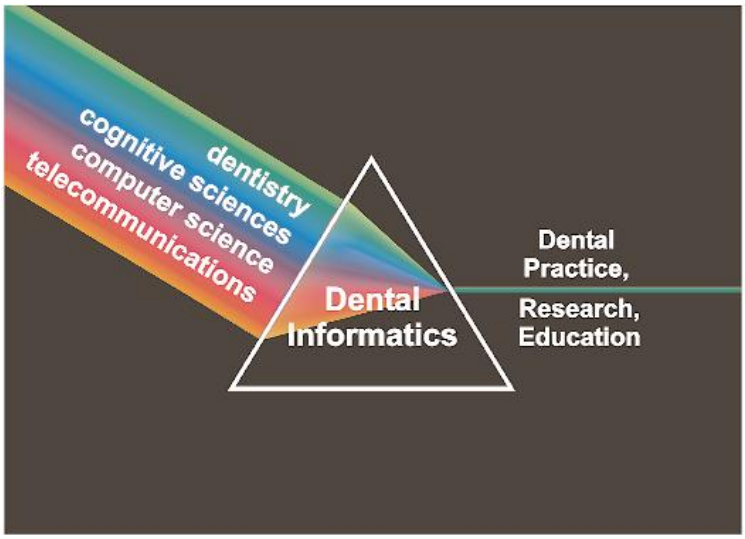


Figure 2. Dental informatics combines its methodological foundations to address problems in practice, research, and education [7]

Figure 2 illustrates how dentistry, a domain area, combines with one or more component sciences of informatics to develop solutions in dental practice, research, and education. Dental informatics derives methods, theories, and techniques from sciences such as dentistry, computer science, cognitive science, and telecommunications.

According to the World Health Organization, Dentistry is the science and art of preventing, diagnosing and treating diseases, injuries and malformations of the teeth, jaws, and mouth [1].

Computer science is a discipline that concerns the understanding and design of computers and computational processes. Here, computer science highlights how information is represented, processed, and controlled in computing systems.

Cognitive science is a research area that pulls several fields like Artificial Intelligence (AI), linguistics, and psychology to establish theories of perception, thinking, and learning. Dentistry includes complex cognitive processes like patient diagnosis, treatment planning, and evaluation.

Telecommunications is the science that deals with communication at a distance. Significant concerns in telecommunications include how computers communicate with each other. Telecommunications also deals with how traffic is routed and how communication is securely kept. Telecommunications research can also be applied to dentistry. An example of this is collecting information about the same patient from different healthcare providers.

C. Electronic Medical Records

The Patient Record Institute defined Electronic Medical Record (EMR) as a repository for patient information with one health-care enterprise that is supported by digital computer input and integrated with other information sources. With the everyday use of computers in clinical dentistry, demands for the use of electronic patient records

have surfaced. Some of the advantages of using EMRs, specifically in large clinical institutions, are easier document storage and access, improved record control, better information for clinic management, and excellent data for evaluation of overall patient care. Electronic medical records are envisioned to improve health care quality. However, some disadvantages of electronic medical records are the cost of software, equipment, and training of future users of EMRs [23].

D. OpenMRS

OpenMRS is a software platform and a reference application which enables design of a customized medical records system. It requires medical and systems analysis knowledge but programming knowledge is not required. OpenMRS is a common platform upon which medical informatics efforts in developing countries can be built. The system is highly customizable for different users since it is based on a conceptual database structure. The conceptual database structure is independent on particular medical information that is required to be collected. In OpenMRS, information is stored in a manner where analyzing and summarizing are made easier. For instance, the minimal use of free text and maximum use of coded information make it easier to analyze and summarize information. The core concept of OpenMRS is a concept dictionary. It stores all diagnosis, treatments, drugs and other medical information which may be needed.

OpenMRS is a client-server application. It is designed to work in an environment where many client computers access the same information on a server [20].

E. OpenMRS Module

An OpenMRS module is a packaged Java code that is uploaded and installed into a running OpenMRS instance. A module can modify almost all aspects of OpenMRS. It basically provides new functionalities like summary report and printing options. A module can also add tables, websites, maps or what the user wishes to add [21].

The overall OpenMRS module structure is listed below:

- build – This is the folder automatically created by build script. It contains the compiled files and pre-jarring files.
- dist – This is the folder also automatically created by build script. It contains the distributable .omod (openmrs module) file.
- lib - Place any module specific libraries in this folder. All jars in this folder will be packaged into your distributed omod file.
- lib-common - Place the jars/libraries that you need for building/compiling/testing your module. The jars in this folder will not be included in the packaged module.
- metadata – This folder contains the following:
    - config.xml – This file gives essential information about the module.
    - *.hbm.xml file – This is the hibernate mapping file which tells what tables and columns should be accessed and used in the database
    - messages_*.properties files

    - moduleApplicationContext.xml – This is file allows modules to override to the current spring application context.
    - liquibase.xml or sqldiff.xml – This file allows updates to the datamodel or the tables of the database.
- src – It contains the Java source files for the module web
    - module – This folder contains the jsp and web files. All files will be placed into /WEB-INF/view/modules/moduleId/*.
        - ?portlets - Any portlet in this folder can be accessed like any other portlet
        - ?resources – Non-JSP files are put and accessed in this folder.
        - Taglibs – JSP tag libs are found in this folder.
    - src – It contains web java source files like controllers and ?servlets.
- build.xml – This shouldn't need modifying other than the module name (for display) and module version. It copies the right files into their necessary places and creates the .omod file [24].

IV. DESIGN AND IMPLEMENTATION

A. Context Diagram

The UP College of Dentistry Dental Information System has 2 types of users – Clinicians and System Administrator. The context diagram is shown in figure 3.

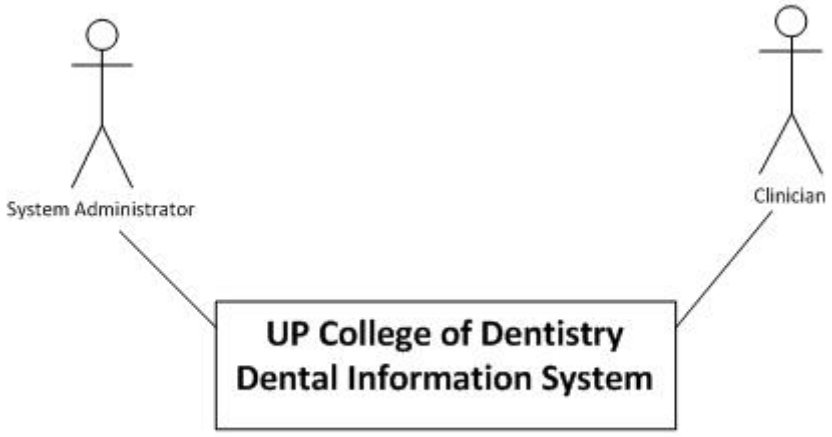


Figure 3 Context Diagram of UPCD Dental Information System

B. Use Case Diagram

Clinicians in the oral diagnosis can manage fields in the patient record. They can also generate dynamic reports based on the search queries in the system. Clinicians can also view the dental record views log, where a list of record views per month is kept. Meanwhile, the system administrator can manage user accounts. Figure 4 shows the top level use case diagram.

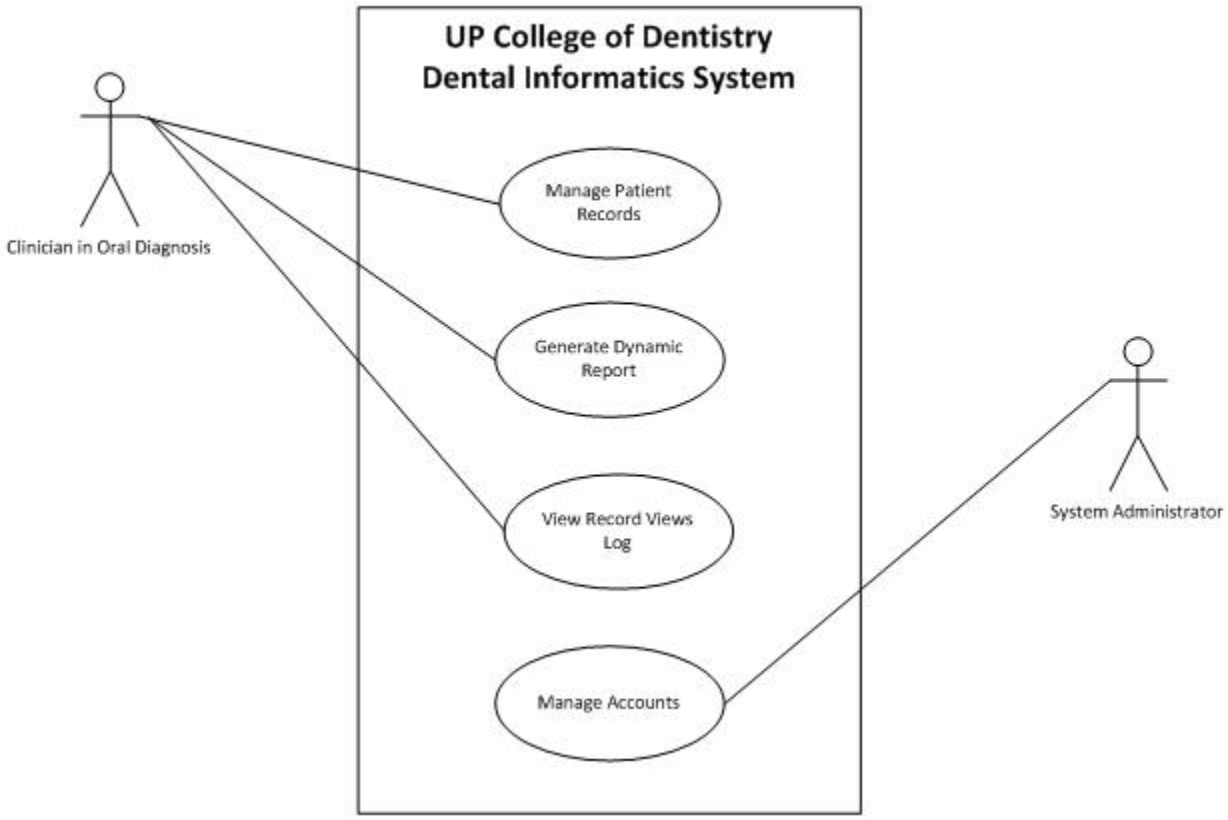


Figure 4 Top Level Use Case Diagram of UPCD Dental Information System

1. **Manage Patient Records**

The Manage Patient Records Use Case involves the clinician. Fields which include the patient's personal information, chief complaint, history of present illness, dental, medical, and social history, physical assessment, vital signs, soft tissue and radiographic exam findings, dental status chart, problem list worksheet, and consultation/referrals chart in the dental records system are being managed by clinicians. Clinicians can add, update, and view the records. They can also view the patient record archive which lists down all the patient records and their versions.

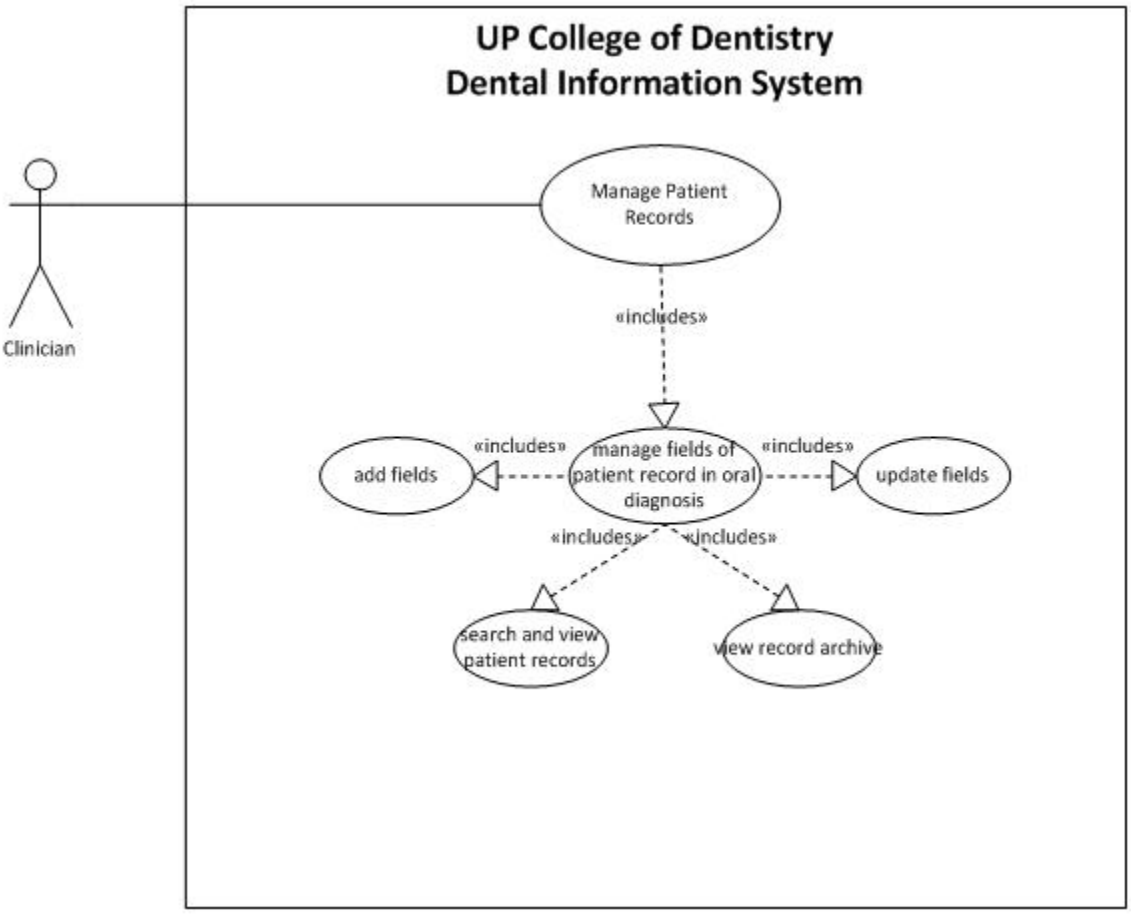


Figure 5 Manage Patient Records Use Case Diagram of UPCD Dental Information System

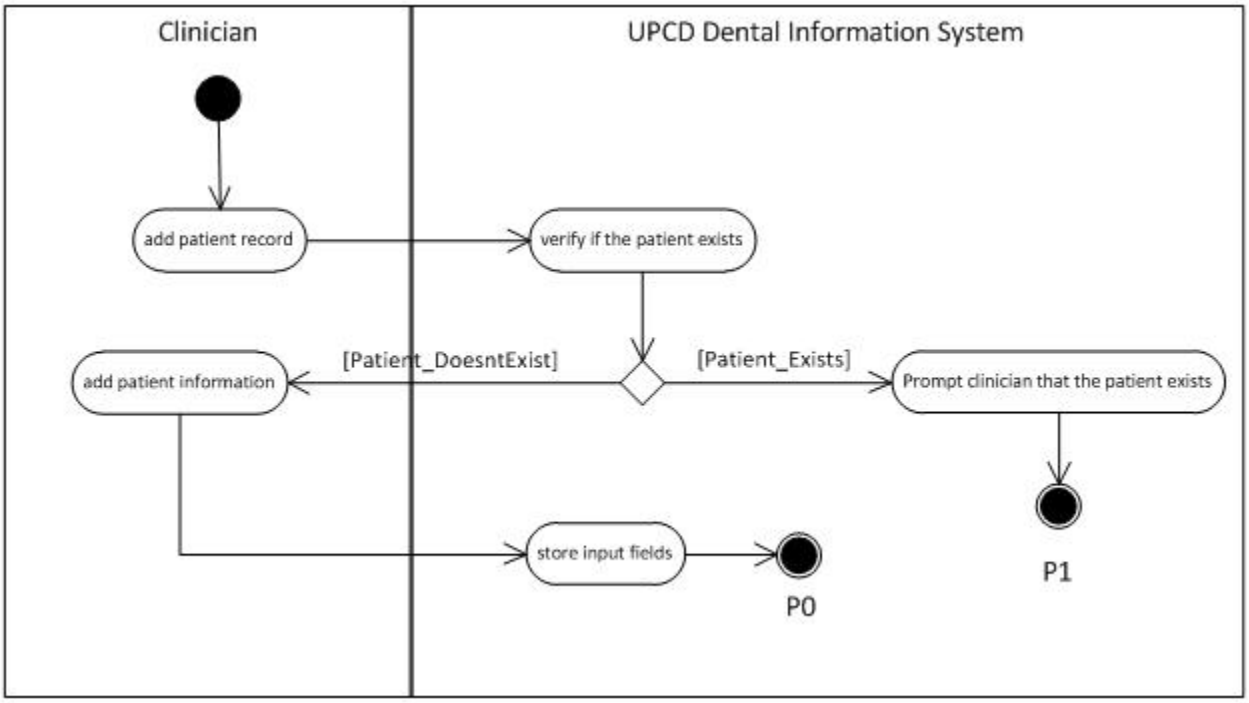


Figure 6 Add Patient Record Activity Diagram of the UPCD Dental Information System

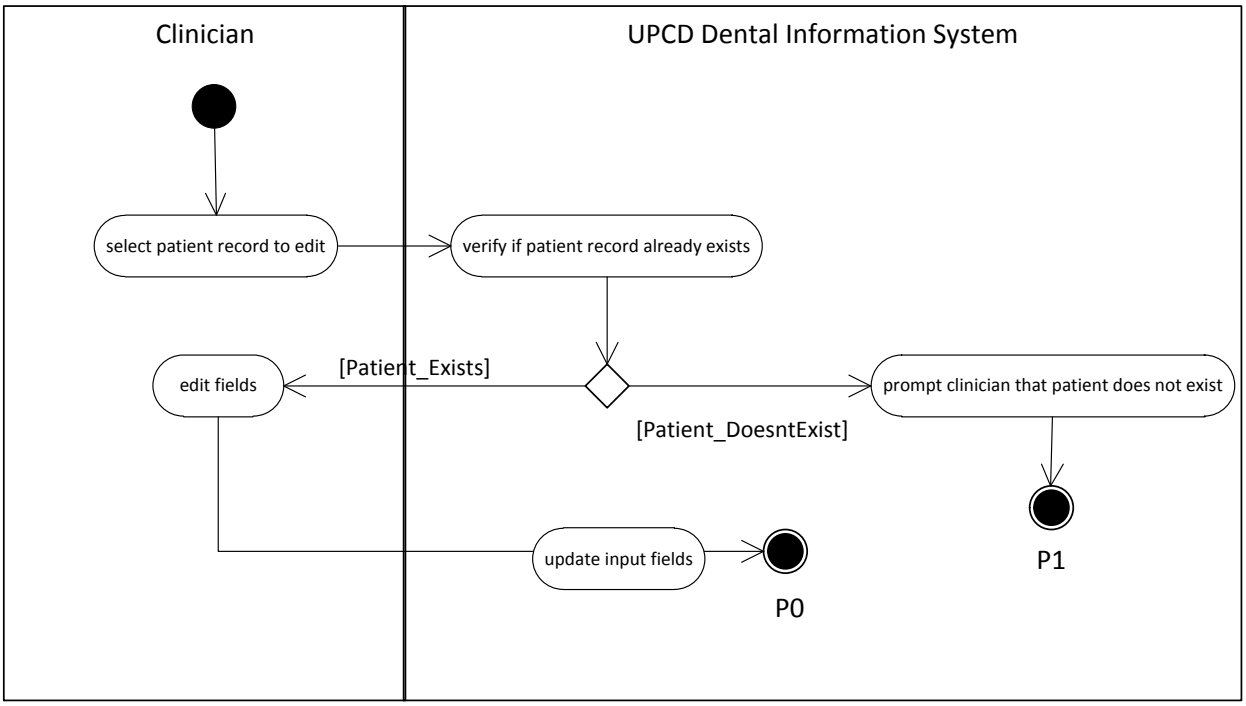


Figure 7 Edit Patient Record Activity Diagram of the UPCD Dental Information System

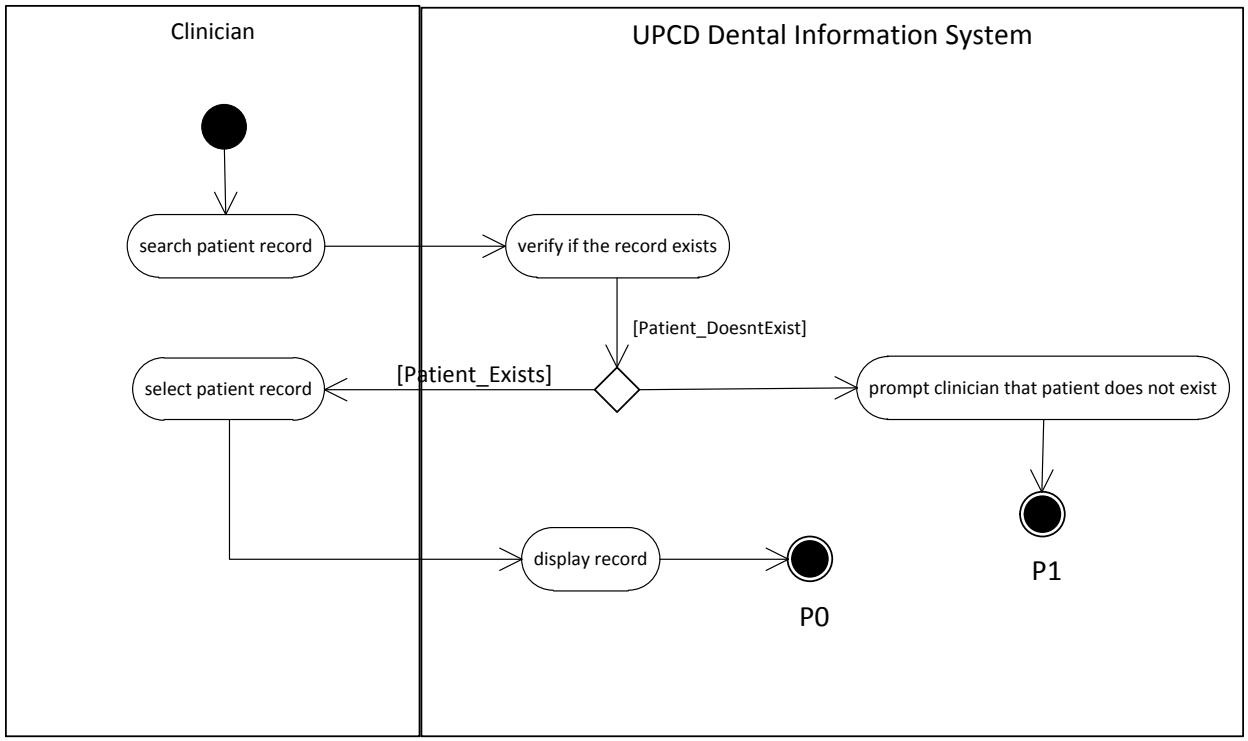


Figure 8 Search and View Patient Record Activity Diagram of the UPCD Dental Information System

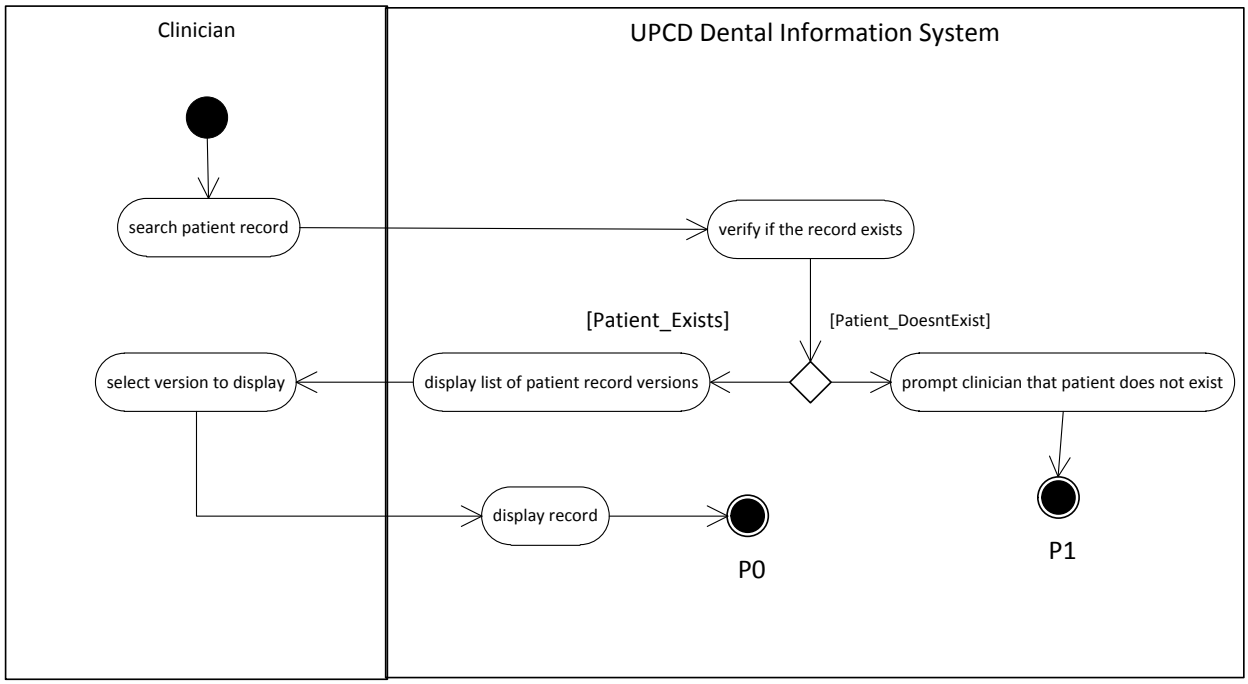


Figure 9 View Patient Records Archive Activity Diagram of the UPCD Dental Information System

2. Generate Reports

Reports are generated by specifying the fields found in patient records that are needed for the report. Figure 10 shows the Generate Report Use Case Diagram.

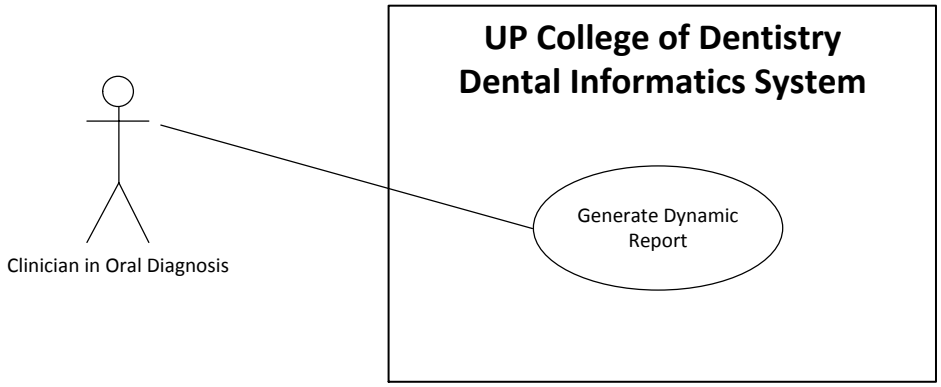


Figure 10 Generate Report Use Case Diagram of the UPCD Dental Information System

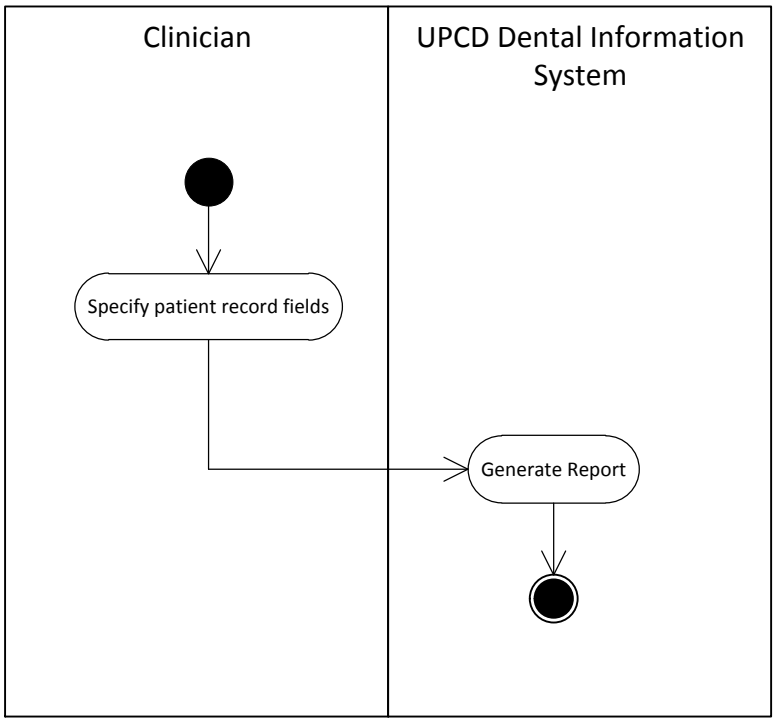


Figure 11 Generate Reports Activity Diagram of the UPCD Dental Information System

3. Access Patient Record Views Log

The patient record views log lists down every patient record views per month made by a clinician. Figure 12 shows the Access Patient Record Views Log Use Case Diagram.

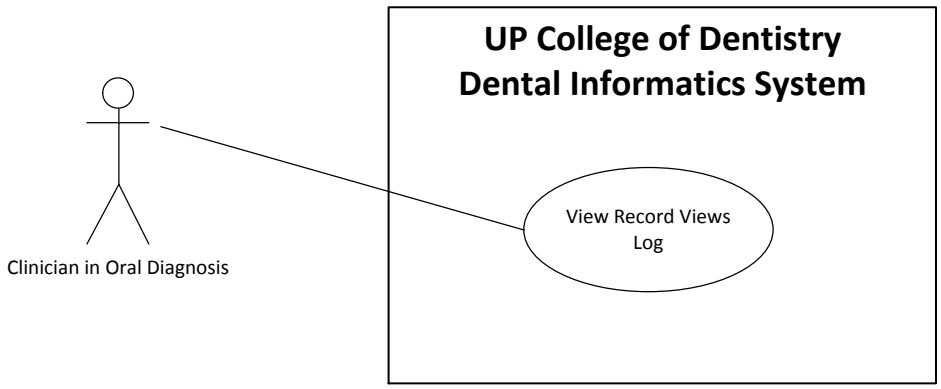


Figure 12 Access Patient Record Views Log Use Case Diagram of the UPCD Dental Information System

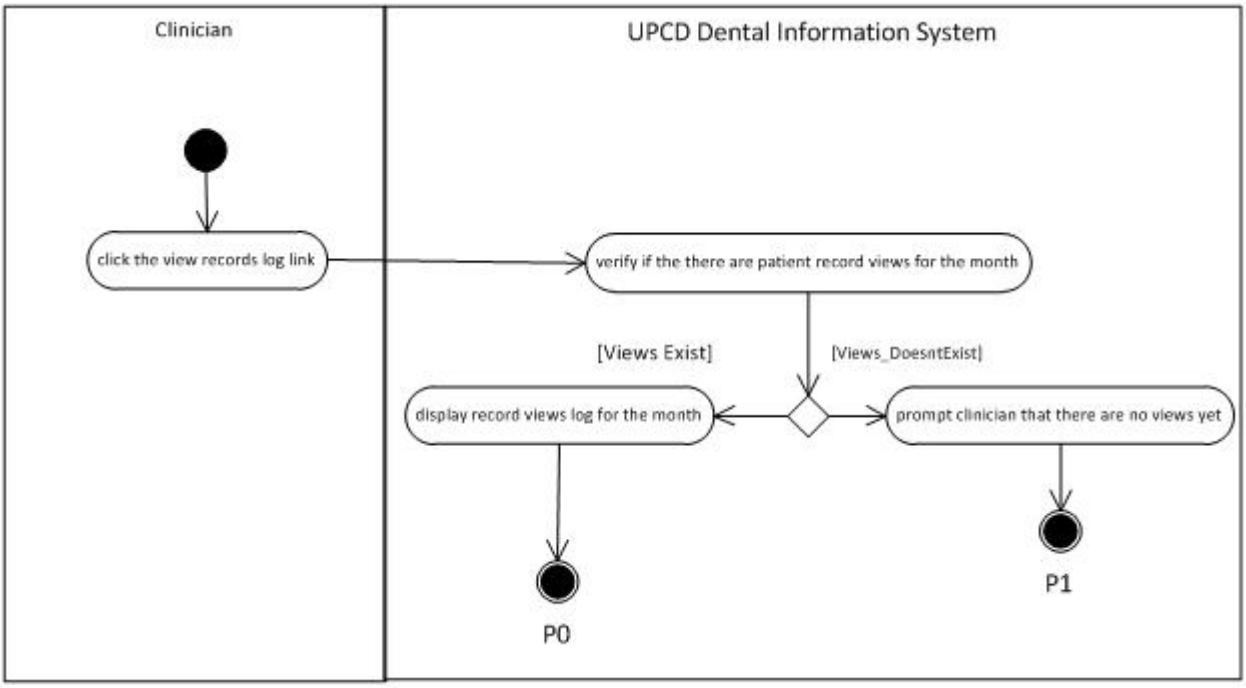


Figure 13 Access Patient Record Views Log Use Case Diagram of the UPCD Dental Information System

2. Manage Accounts

The Manage Accounts Use Case Diagram involves the system administrator. He can manage clinician accounts, in general. Adding, deleting, searching, and viewing of clinician accounts are done here. Figure 14 shows the Manage Accounts Use Case Diagram of the System Administrator.

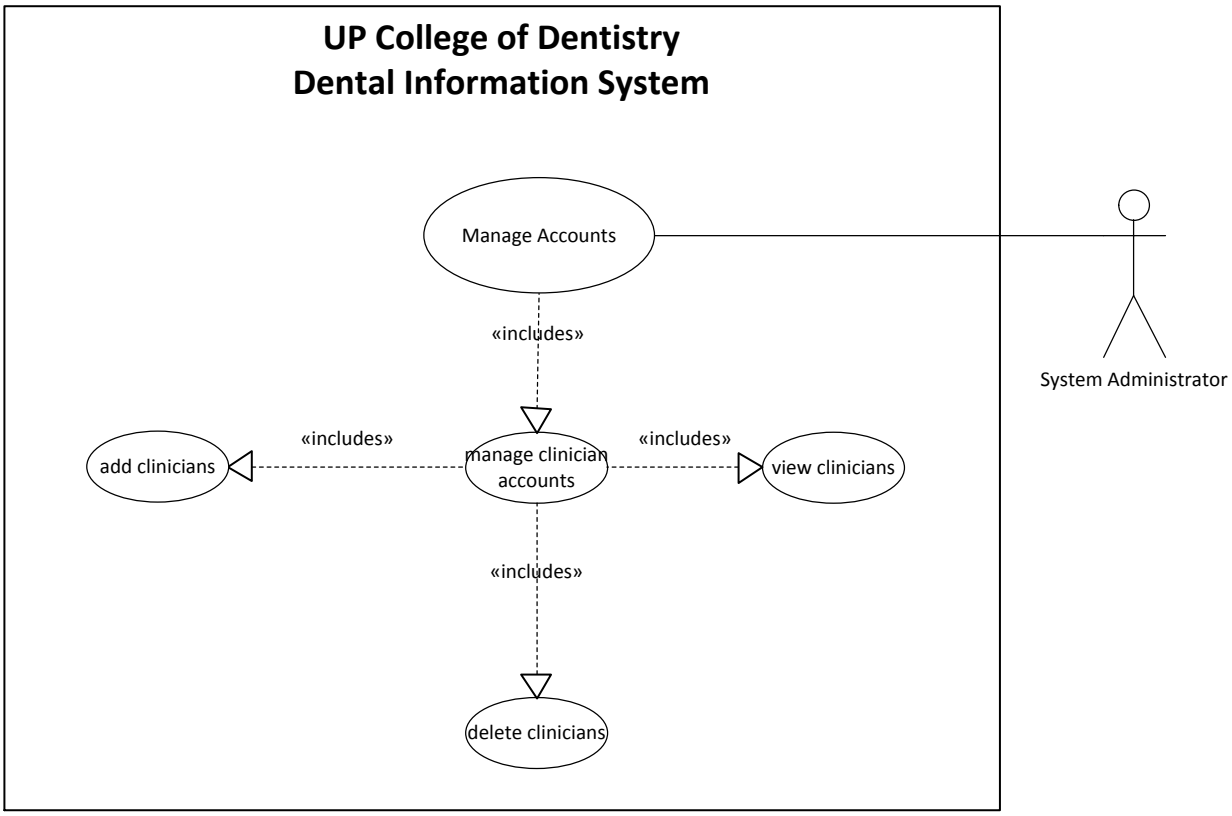


Figure 14 Manage Accounts Use Case Diagram of the UPCD Dental Information System

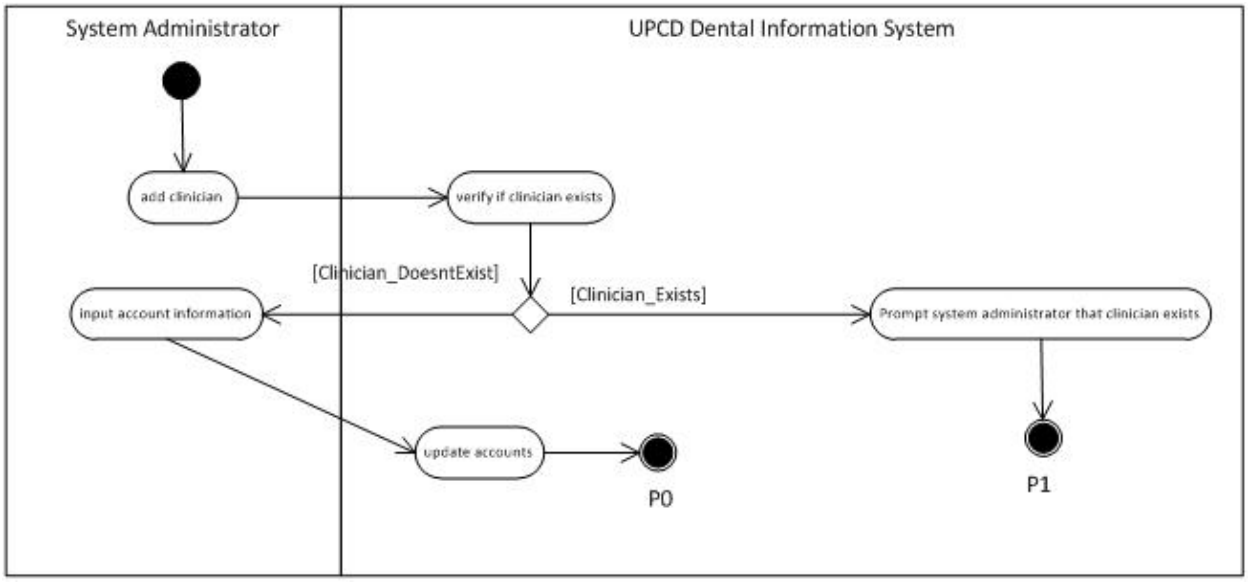


Figure 15 Add Clinician Activity Diagram of the UPCD Dental Information System

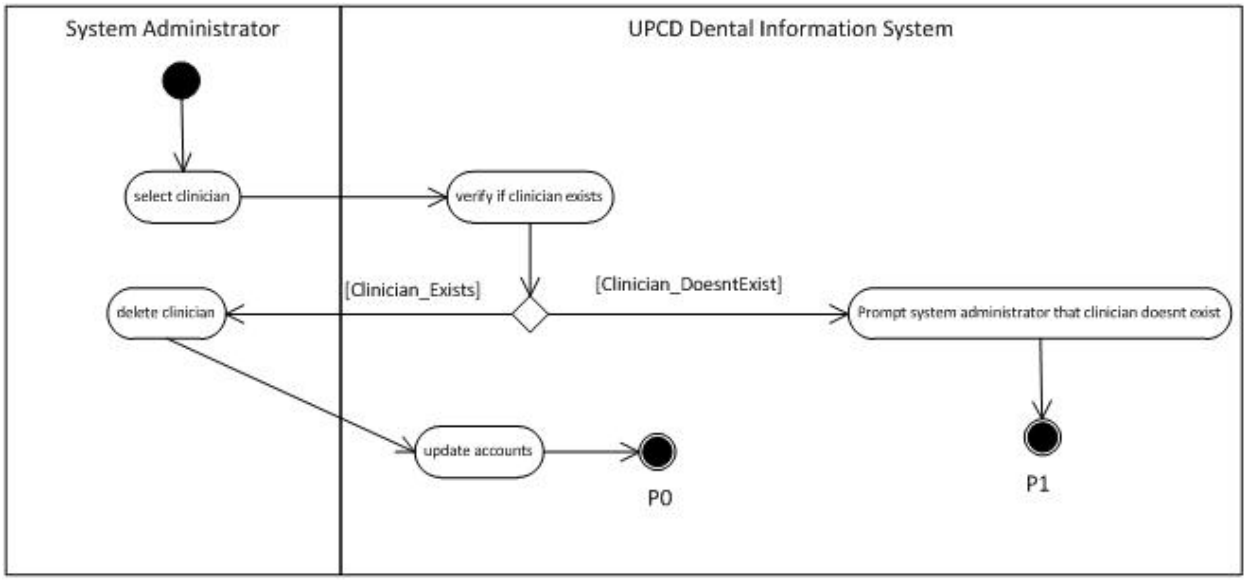


Figure 16 Delete Clinician Activity Diagram of the UPCD Dental Information System

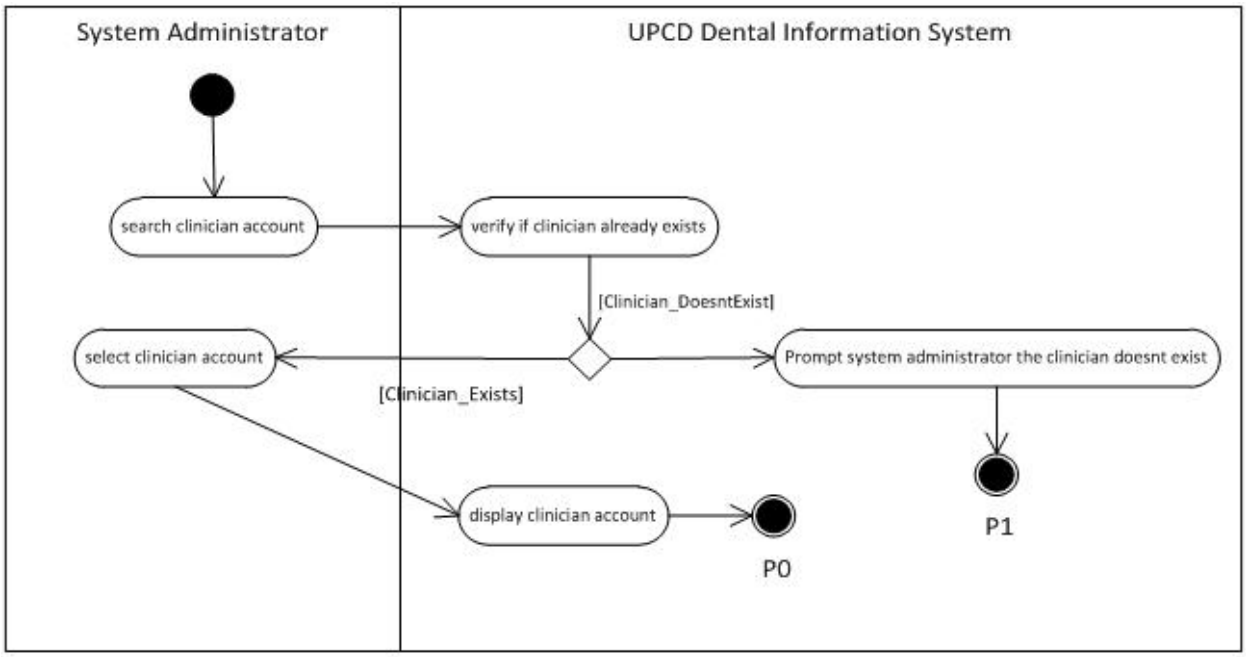
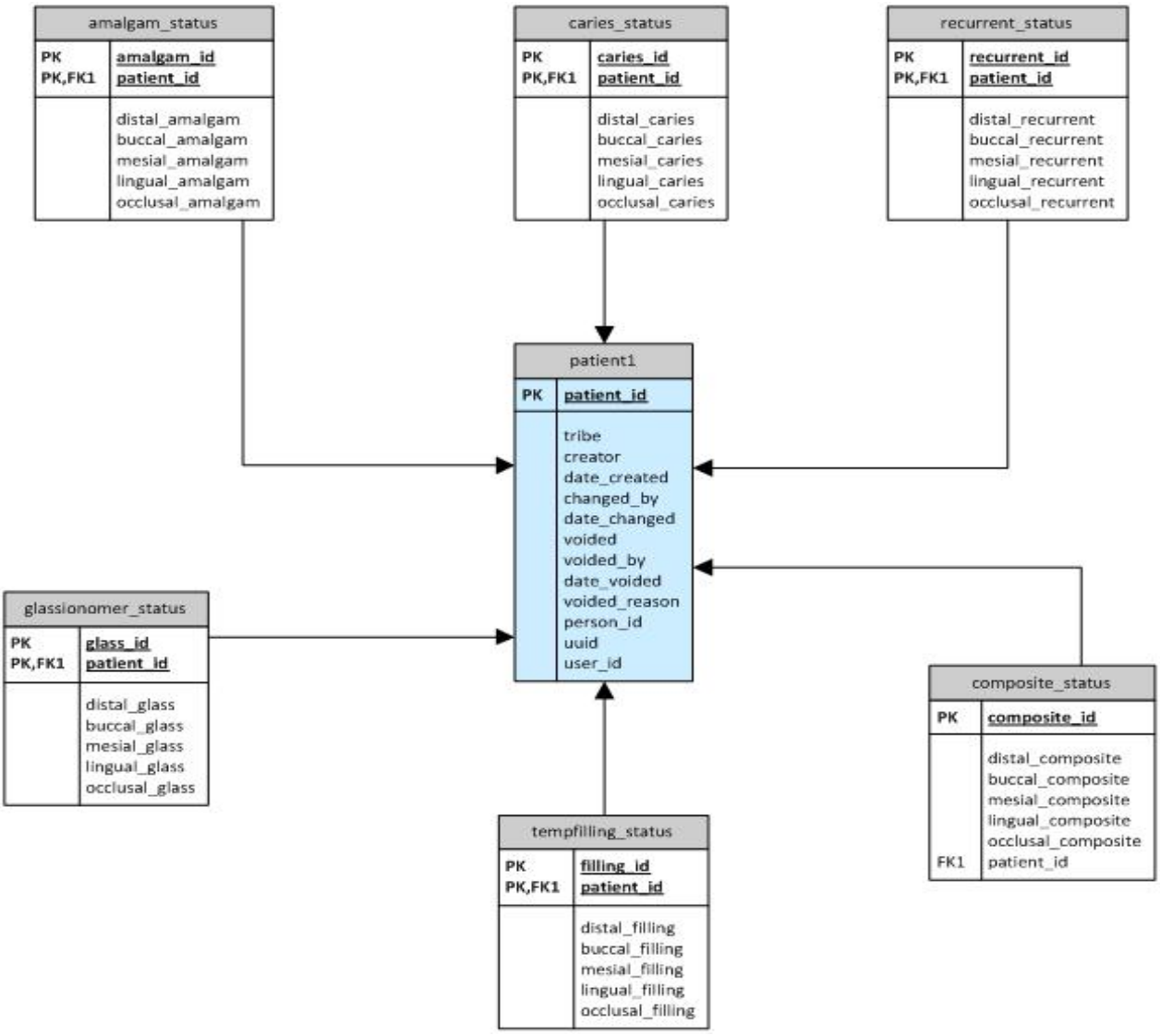


Figure 17 Search and View Clinician Activity Diagram of the UPCD Dental Information System

C. Entity Relationship Diagram



Since the Open DentIS Entity Relationship Diagram has many tables, the figure above, figure 18, illustrates the Open DentIS Entity Relationship Diagram with the dental status surfaces table – caries_status, recurrent_status, amalgam_status, composite_status, glassionomer_status, and tempfilling_status. The table in blue, with name patient, is a built in OpenMRS table.

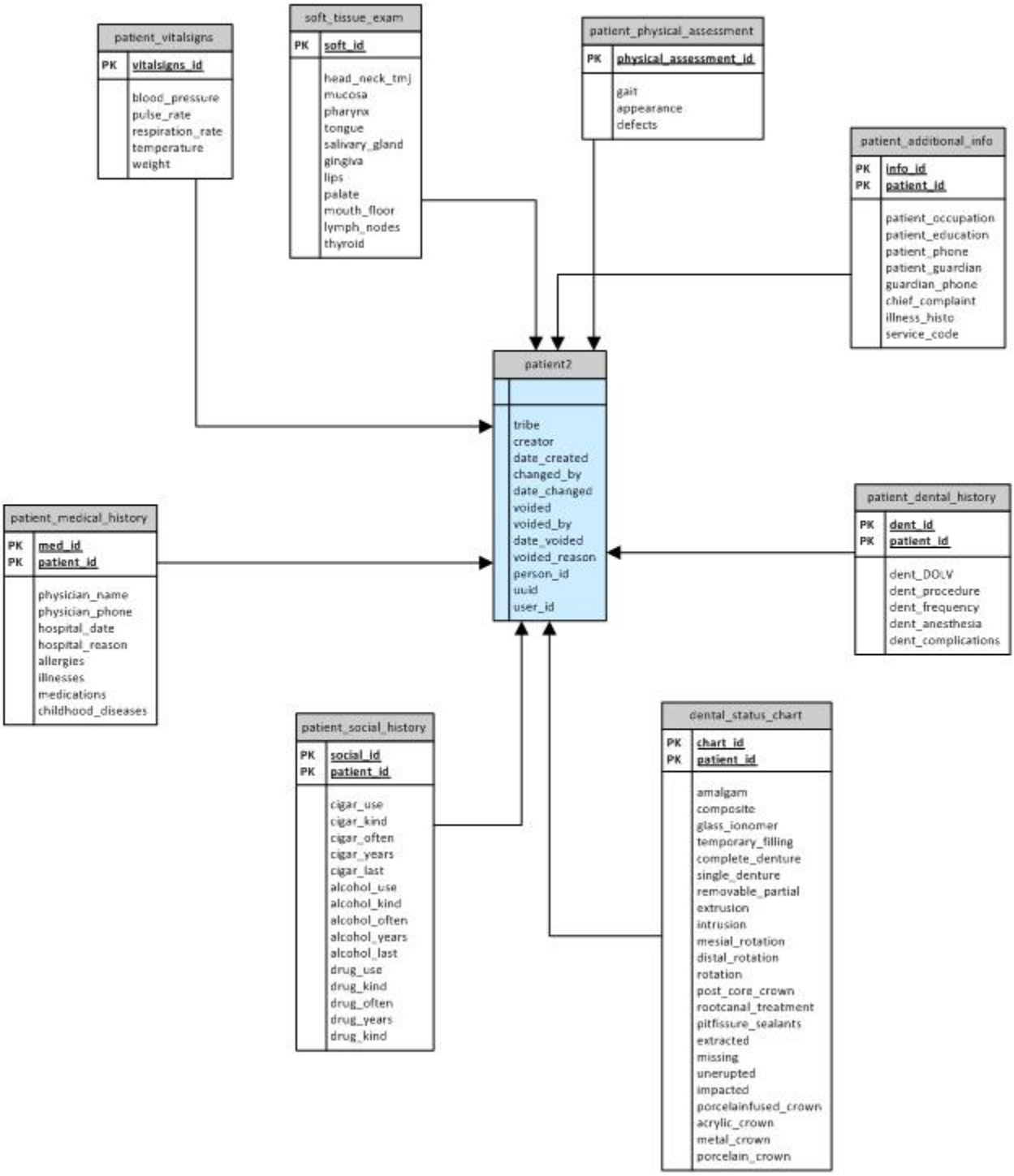
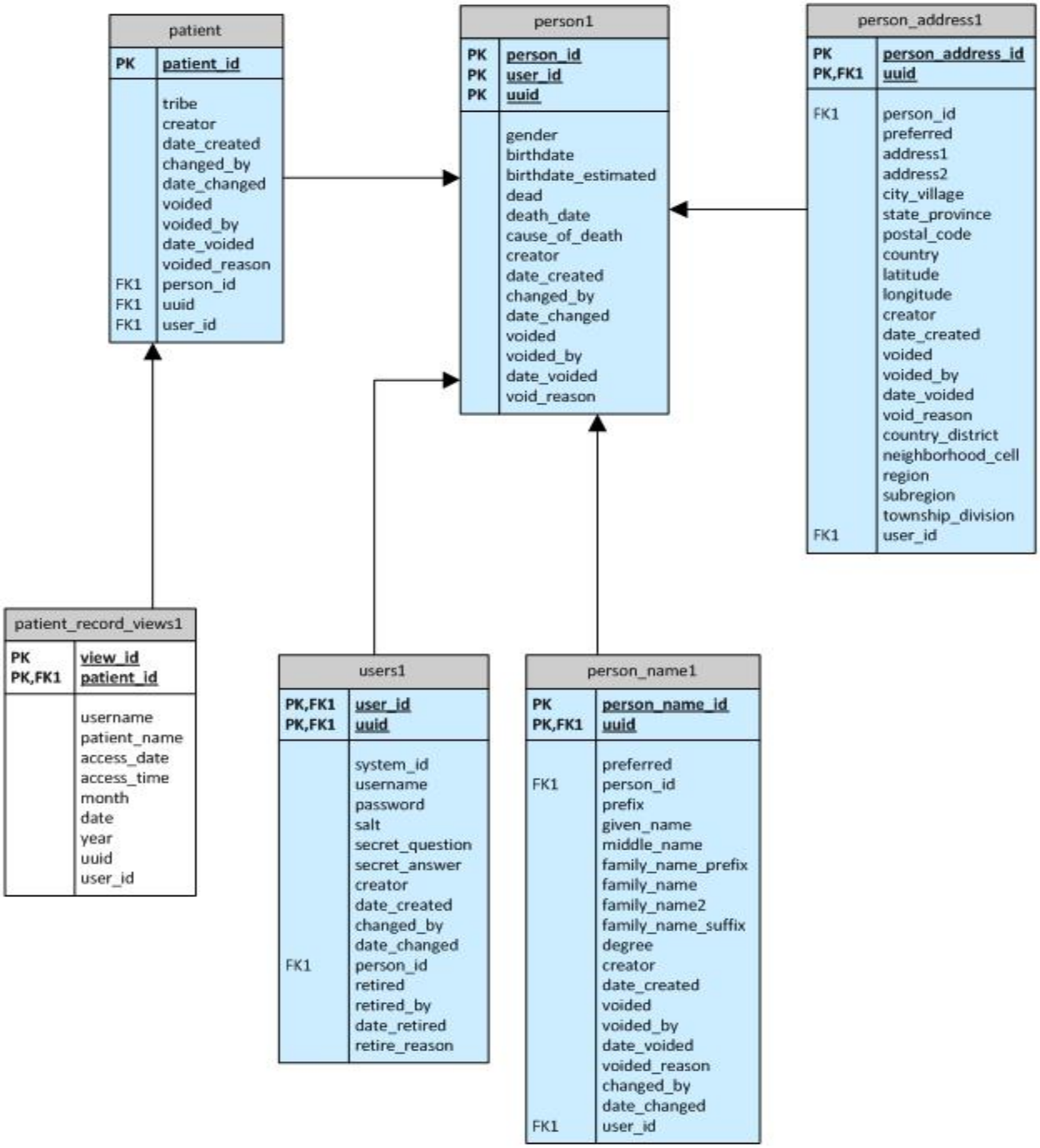


Figure 19 shows another part of the Open DentIS Entity Relationship Diagram. The tables that are connected to table patient are patient_additional_info, patient_dental_history, patient_medical history, patient_social_history_ patient_vitalsigns, patient_physical_assessment,

dental_status_chart, soft_tissue_exam, and radiographic_exam. These tables are fields in the UPCD dental record.



Meanwhile figure 20 connects the built-in OpenMRS tables with each other. The patient_record_views table, specifically made for Open DentIS also connects to the built-in OpenMRS tables namely, patient and users.

D. Data Dictionary

Attribute	Datatype	Description
amalgam_id	int(11)	ID of amalgam status
patient_id	int(11)	ID of patient
distal_amalgam	set('18', '17', '16', '15', '14', '13', '12', '11', '21', '22', '23', '24', '25', '26', '27', '28', '38', '37', '36', '35', '34', '33', '32', '31', '41', '42', '43', '44', '45', '46', '47', '48')	distal surface with amalgam
buccal_amalgam	set('18', '17', '16', '15', '14', '13', '12', '11', '21', '22', '23', '24', '25', '26', '27', '28', '38', '37', '36', '35', '34', '33', '32', '31', '41', '42', '43', '44', '45', '46', '47', '48')	buccal surface with amalgam
mesial_amalgam	set('18', '17', '16', '15', '14', '13', '12', '11', '21', '22', '23', '24', '25', '26', '27', '28', '38', '37', '36', '35', '34', '33', '32', '31', '41', '42', '43', '44', '45', '46', '47', '48')	mesial surface with amalgam
lingual_amalgam	set('18', '17', '16', '15', '14', '13', '12', '11', '21', '22', '23', '24', '25', '26', '27', '28', '38', '37', '36', '35', '34', '33', '32', '31', '41', '42', '43', '44', '45', '46', '47', '48')	lingual surface with amalgam
occlusal_amalgam	set('18', '17', '16', '15', '14', '13', '12', '11', '21', '22', '23', '24', '25', '26', '27', '28', '38', '37', '36', '35', '34', '33', '32', '31', '41', '42', '43', '44', '45', '46', '47', '48')	occlusal surface with amalgam
updatedBy	varchar(50)	clinician who updated the record
date_updated	varchar(50)	date the record was updated
time_updated	varchar(50)	time the record was updated
version	int(11)	update version of the record

Table 1: amalgam_status table

Attribute	Datatype	Description
caries_id	int(11)	ID of caries status
patient_id	int(11)	ID of patient
distal_caries	set('18', '17', '16', '15', '14', '13', '12', '11', '21', '22', '23', '24', '25', '26', '27', '28', '38', '37', '36', '35', '34', '33', '32', '31', '41', '42', '43', '44', '45', '46', '47', '48')	distal surface with caries

buccal_caries	set('18', '17', '16', '15', '14', '13', '12', '11', '21', '22', '23', '24', '25', '26', '27', '28', '38', '37', '36', '35', '34', '33', '32', '31', '41', '42', '43', '44', '45', '46', '47', '48')	buccal surface with caries
mesial_caries	set('18', '17', '16', '15', '14', '13', '12', '11', '21', '22', '23', '24', '25', '26', '27', '28', '38', '37', '36', '35', '34', '33', '32', '31', '41', '42', '43', '44', '45', '46', '47', '48')	mesial surface with caries
lingual_caries	set('18', '17', '16', '15', '14', '13', '12', '11', '21', '22', '23', '24', '25', '26', '27', '28', '38', '37', '36', '35', '34', '33', '32', '31', '41', '42', '43', '44', '45', '46', '47', '48')	lingual surface with caries
occlusal_caries	set('18', '17', '16', '15', '14', '13', '12', '11', '21', '22', '23', '24', '25', '26', '27', '28', '38', '37', '36', '35', '34', '33', '32', '31', '41', '42', '43', '44', '45', '46', '47', '48')	occlusal surface with caries
updatedBy	varchar(50)	clinician who updated the record
date_updated	varchar(50)	date the record was updated
time_updated	varchar(50)	time the record was updated
version	int(11)	update version of the record

Table 2: caries_status table

Attribute	Datatype	Description
composite_id	int(11)	ID of caries status
patient_id	int(11)	ID of patient
distal_composite	set('18', '17', '16', '15', '14', '13', '12', '11', '21', '22', '23', '24', '25', '26', '27', '28', '38', '37', '36', '35', '34', '33', '32', '31', '41', '42', '43', '44', '45', '46', '47', '48')	distal surface with composite
buccal_composite	set('18', '17', '16', '15', '14', '13', '12', '11', '21', '22', '23', '24', '25', '26', '27', '28', '38', '37', '36', '35', '34', '33', '32', '31', '41', '42', '43', '44', '45', '46', '47', '48')	buccal surface with composite
mesial_composite	set('18', '17', '16', '15', '14', '13', '12', '11', '21', '22', '23', '24', '25', '26', '27', '28', '38', '37', '36', '35', '34', '33', '32', '31', '41', '42', '43', '44', '45', '46', '47', '48')	mesial surface with composite
lingual_composite	set('18', '17', '16', '15', '14', '13', '12', '11', '21', '22', '23', '24', '25', '26', '27', '28', '38', '37', '36', '35', '34', '33', '32', '31', '41', '42', '43', '44', '45', '46', '47', '48')	lingual surface with composite
occlusal_composite	set('18', '17', '16', '15', '14', '13', '12', '11', '21', '22', '23', '24', '25', '26', '27', '28', '38', '37', '36', '35', '34', '33', '32', '31', '41', '42', '43', '44', '45', '46', '47', '48')	occlusal surface with composite
updatedBy	varchar(50)	clinician who updated the record
date_updated	varchar(50)	date the record was updated
time_updated	varchar(50)	time the record was

		updated
version	int(11)	update version of the record

Table 3: composite_status

Attribute	Datatype	Description
chart_id	int(11)	ID of the dental status chart
patient_id	int(11)	ID of the patient
caries	set('18', '17', '16', '15', '14', '13', '12', '11', '21', '22', '23', '24', '25', '26', '27', '28', '38', '37', '36', '35', '34', '33', '32', '31', '41', '42', '43', '44', '45', '46', '47', '48')	tooth number with caries
recurrent_caries	set('', '18', '17', '16', '15', '14', '13', '12', '11', '21','22', '23', '24', '25', '26', '27', '28', '38', '37', '36', '35', '34', '33', '32', '31', '41', '42', '43', '44', '45', '46', '47', '48')	tooth number with recurrent caries
amalgam	set('', '18', '17', '16', '15', '14', '13', '12', '11', '21','22', '23', '24', '25', '26', '27', '28', '38', '37', '36', '35', '34', '33', '32', '31', '41', '42', '43', '44', '45', '46', '47', '48')	tooth number with amalgam
composite	set('', '18', '17', '16', '15', '14', '13', '12', '11', '21','22', '23', '24', '25', '26', '27', '28', '38', '37', '36', '35', '34', '33', '32', '31', '41', '42', '43', '44', '45', '46', '47', '48')	tooth number with composite
glass_ionomer	set('18', '17', '16', '15', '14', '13', '12', '11', '21', '22', '23', '24', '25', '26', '27', '28', '38', '37', '36', '35', '34', '33', '32', '31', '41', '42', '43', '44', '45', '46', '47', '48')	tooth number with glass ionomer
temporary_filling	set('18', '17', '16', '15', '14', '13', '12', '11', '21', '22', '23', '24', '25', '26', '27', '28', '38', '37', '36', '35', '34', '33', '32', '31', '41', '42', '43', '44', '45', '46', '47', '48')	tooth number with temporary filling
complete_denture	enum('yes', 'no')	does the patient have complete denture?
single_denture	enum('upper', 'lower')	does the person have lower or upper single denture?
removable_partial_denture	set('18', '17', '16', '15', '14', '13', '12', '11', '21', '22', '23', '24', '25', '26', '27', '28', '38', '37', '36', '35', '34', '33', '32', '31', '41', '42', '43', '44', '45', '46', '47', '48')	tooth number with removable partial denture
extrusion	set('18', '17', '16', '15', '14', '13', '12', '11', '21', '22', '23', '24', '25', '26', '27', '28', '38', '37', '36', '35', '34', '33', '32', '31', '41', '42', '43', '44', '45', '46', '47', '48')	tooth number with extrusion
intrusion	set('18', '17', '16', '15', '14', '13', '12', '11', '21', '22', '23', '24', '25', '26', '27', '28', '38', '37', '36', '35', '34', '33', '32', '31', '41', '42', '43', '44', '45', '46', '47', '48')	tooth number with intrusion
mesial_rotation	set('18', '17', '16', '15', '14', '13', '12', '11', '21', '22', '23', '24', '25', '26', '27', '28', '38', '37', '36', '35', '34', '33', '32', '31', '41', '42', '43', '44', '45', '46', '47', '48')	tooth number with mesial rotation

distal_rotation	set('18', '17', '16', '15', '14', '13', '12', '11', '21', '22', '23', '24', '25', '26', '27', '28', '38', '37', '36', '35', '34', '33', '32', '31', '41', '42', '43', '44', '45', '46', '47', '48')	tooth number with distal rotation
rotation	set('18', '17', '16', '15', '14', '13', '12', '11', '21', '22', '23', '24', '25', '26', '27', '28', '38', '37', '36', '35', '34', '33', '32', '31', '41', '42', '43', '44', '45', '46', '47', '48')	tooth number with rotation
postcore_crown	set('18', '17', '16', '15', '14', '13', '12', '11', '21', '22', '23', '24', '25', '26', '27', '28', '38', '37', '36', '35', '34', '33', '32', '31', '41', '42', '43', '44', '45', '46', '47', '48')	tooth number with post core crown
rootcanal_treatment	set('18', '17', '16', '15', '14', '13', '12', '11', '21', '22', '23', '24', '25', '26', '27', '28', '38', '37', '36', '35', '34', '33', '32', '31', '41', '42', '43', '44', '45', '46', '47', '48')	tooth number with root canal treatment
pitfissure_sealants	set('18', '17', '16', '15', '14', '13', '12', '11', '21', '22', '23', '24', '25', '26', '27', '28', '38', '37', '36', '35', '34', '33', '32', '31', '41', '42', '43', '44', '45', '46', '47', '48')	tooth number with pit and fissure sealants
extracted	set('18', '17', '16', '15', '14', '13', '12', '11', '21', '22', '23', '24', '25', '26', '27', '28', '38', '37', '36', '35', '34', '33', '32', '31', '41', '42', '43', '44', '45', '46', '47', '48')	extracted tooth number
missing	set('18', '17', '16', '15', '14', '13', '12', '11', '21', '22', '23', '24', '25', '26', '27', '28', '38', '37', '36', '35', '34', '33', '32', '31', '41', '42', '43', '44', '45', '46', '47', '48')	missing tooth number
unerupted	set('18', '17', '16', '15', '14', '13', '12', '11', '21', '22', '23', '24', '25', '26', '27', '28', '38', '37', '36', '35', '34', '33', '32', '31', '41', '42', '43', '44', '45', '46', '47', '48')	unerupted tooth number
impacted	set('18', '17', '16', '15', '14', '13', '12', '11', '21', '22', '23', '24', '25', '26', '27', '28', '38', '37', '36', '35', '34', '33', '32', '31', '41', '42', '43', '44', '45', '46', '47', '48')	impacted tooth number
porcelainfused_crown	set('18', '17', '16', '15', '14', '13', '12', '11', '21', '22', '23', '24', '25', '26', '27', '28', '38', '37', '36', '35', '34', '33', '32', '31', '41', '42', '43', '44', '45', '46', '47', '48')	tooth number with porcelain fused crown
acrylic_crown	set('18', '17', '16', '15', '14', '13', '12', '11', '21', '22', '23', '24', '25', '26', '27', '28', '38', '37', '36', '35', '34', '33', '32', '31', '41', '42', '43', '44', '45', '46', '47', '48')	tooth number with acrylic crown
metal_crown	set('18', '17', '16', '15', '14', '13', '12', '11', '21', '22', '23', '24', '25', '26', '27', '28', '38', '37', '36', '35', '34', '33', '32', '31', '41', '42', '43', '44', '45', '46', '47', '48')	tooth number with metal crown
porcelain_crown	set('18', '17', '16', '15', '14', '13', '12', '11', '21', '22', '23', '24', '25', '26', '27', '28', '38', '37', '36', '35', '34', '33', '32', '31', '41', '42', '43', '44', '45', '46', '47', '48')	tooth number with porcelain crown
fixed_bridge	set('18', '17', '16', '15', '14', '13', '12', '11', '21', '22', '23', '24', '25', '26', '27', '28', '38', '37', '36', '35', '34', '33', '32', '31', '41', '42', '43', '44', '45', '46', '47', '48')	tooth number with fixed bridge
restorable	set('18', '17', '16', '15', '14', '13', '12', '11', '21', '22', '23', '24', '25', '26', '27', '28', '38', '37', '36', '35', '34', '33', '32', '31', '41', '42', '43', '44', '45', '46', '47', '48')	restorable tooth number

nonrestorable	set('18', '17', '16', '15', '14', '13', '12', '11', '21', '22', '23', '24', '25', '26', '27', '28', '38', '37', '36', '35', '34', '33', '32', '31', '41', '42', '43', '44', '45', '46', '47', '48')	nonrestorable tooth number
updatedBy	varchar(50)	clinician who updated the patient record
date_updated	varchar(50)	date the record was updated
time_updated	varchar(50)	time the record was updated
version	int(11)	update version of the record

Table 4: dental_status_chart table

Attribute	Datatype	Description
glass_id	int(11)	ID of glass ionomer status
patient_id	int(11)	ID of patient
distal_glass	set('18', '17', '16', '15', '14', '13', '12', '11', '21', '22', '23', '24', '25', '26', '27', '28', '38', '37', '36', '35', '34', '33', '32', '31', '41', '42', '43', '44', '45', '46', '47', '48')	distal surface with glass ionomer
buccal_glass	set('18', '17', '16', '15', '14', '13', '12', '11', '21', '22', '23', '24', '25', '26', '27', '28', '38', '37', '36', '35', '34', '33', '32', '31', '41', '42', '43', '44', '45', '46', '47', '48')	buccal surface with glass ionomer
mesial_glass	set('18', '17', '16', '15', '14', '13', '12', '11', '21', '22', '23', '24', '25', '26', '27', '28', '38', '37', '36', '35', '34', '33', '32', '31', '41', '42', '43', '44', '45', '46', '47', '48')	mesial surface with glass ionomer
lingual_glass	set('18', '17', '16', '15', '14', '13', '12', '11', '21', '22', '23', '24', '25', '26', '27', '28', '38', '37', '36', '35', '34', '33', '32', '31', '41', '42', '43', '44', '45', '46', '47', '48')	lingual surface with glass ionomer
occlusal_glass	set('18', '17', '16', '15', '14', '13', '12', '11', '21', '22', '23', '24', '25', '26', '27', '28', '38', '37', '36', '35', '34', '33', '32', '31', '41', '42', '43', '44', '45', '46', '47', '48')	occlusal surface with glass ionomer
updatedBy	varchar(50)	clinician who updated the record
date_updated	varchar(50)	date the record was updated
time_updated	varchar(50)	time the record was updated
version	int(11)	update version of the record

Table 5: glassionomer_status table

Attribute	Datatype	Description
info_id	int(11)	Addition Info ID

patient_id	int(11)	ID of patient
patient_occupation	varchar(30)	occupation of patient
patient_education	varchar(30)	educational attainment of patient
patient_phone	bigint(11)	phone number of patient
patient_guardian	varchar(50)	person to contact in case of emergency
guardian_phone	bigint(11)	contact number of guardian
chief_complaint	varchar(100)	chief complaint of the patient
illness_histo	varchar(100)	illness history of the patient
service_code	set('Resto', 'FPD', 'PEDO', 'CD', 'RPD', 'ENDO', 'PERIO', 'OS', 'Ortho')	service code of the treatments
updatedBy	varchar(50)	clinician who updated the record
date_updated	varchar(50)	date the record was updated
time_updated	varchar(50)	time the record was updated
version	int(11)	update version of the record

Table 6: patient_additional_info table

Attribute	Datatype	Description
checklist_id	int(11)	Patient checklist ID
patient_id	int(11)	Patient ID
high_blood	enum('yes', 'no')	Experienced highblood?
heart_attack	enum('yes', 'no')	Experienced heart attack?
angina_pectoris	enum('yes', 'no')	Experienced Angina Pectoris?
swollen_ankles	enum('yes', 'no')	Experienced swollen ankles?
frequent_fever	enum('yes', 'no')	Experienced frequent high fever?
pacemakers	enum('yes', 'no')	Has pacemakers?
emphysema	enum('yes', 'no')	Has emphysema?
asthma	enum('yes', 'no')	Has asthma?
afternoon_fever	enum('yes', 'no')	Experienced afternoon fever?
chronic_cough	enum('yes', 'no')	Has chronic cough?
breathing_problems	enum('yes', 'no')	Has breathing problems?
bloody_sputum	enum('yes', 'no')	Has bloody sputum?
sinusitis	enum('yes', 'no')	Has sinusitis?
frequent_headaches	enum('yes', 'no')	Has frequent headaches?
dizziness	enum('yes', 'no')	Experienced dizziness?
fainting_spells	enum('yes', 'no')	Experienced fainting spells?
visual_impairment	enum('yes', 'no')	Experienced visual impairments?
hearing_impairment	enum('yes', 'no')	Experienced hearing impairments?
arthritis	enum('yes', 'no')	Has arthritis?
nervousness	enum('yes', 'no')	Experienced nervousness?
anxiety	enum('yes', 'no')	Experienced anxiety?
joint_pain	enum('yes', 'no')	Experienced joint pain?

tremors	enum('yes', 'no')	Experienced tremors?
blood_transfusion	enum('yes', 'no')	Undergone blood transfusion?
denied_blood	enum('yes', 'no')	Denied of blood donation?
pallor	enum('yes', 'no')	Experienced pallor?
diabetes	enum('yes', 'no')	Has diabetes?
goiter	enum('yes', 'no')	Has goiter?
bleeding_bruising	enum('yes', 'no')	Experienced bleeding or bruising?
weight_loss_gain	enum('yes', 'no')	Experienced sudden weight loss or gain?
frequent_thirst	enum('yes', 'no')	frequently thirsty?
frequent_hunger	enum('yes', 'no')	frequently hungry?
frequent_urination	enum('yes', 'no')	frequently urinating?
chemotherapy	enum('yes', 'no')	has undergone chemotherapy?
urination_pain	enum('yes', 'no')	Experienced urination pain?
urine_blood_pus	enum('yes', 'no')	Has blood or pus in urine?
hepatitis	enum('yes', 'no')	Has hepatitis?
hiv_positive	enum('yes', 'no')	Is HIV positive?
pelvic_discomfort	enum('yes', 'no')	Experienced pelvic discomfort?
depression	enum('yes', 'no')	Experienced depression?
check_others	enum('yes', 'no')	Others
enumerate_checkothers	varchar(50)	specify others
family_diabetes	enum('yes', 'no')	family history has diabetes
family_heart_diseases	enum('yes', 'no')	family history has heart diseases
family_bleeding	enum('yes', 'no')	family history bleeding
family_cancer	enum('yes', 'no')	family history has cancer
family_others	enum('yes', 'no')	other family history diseases
enumerate_other_family	varchar(50)	specify others
drug_allergy	enum('yes', 'no')	allergic to drugs
enumerate_drugs	varchar(50)	what drugs
food_allergy	enum('yes', 'no')	allergic to food
enumerate_food	varchar(50)	what food
rubber_allergy	enum('yes', 'no')	allergic to rubber
enumerate_rubber	varchar(50)	what rubber
other_allergy	enum('yes', 'no')	other allergies
enumerate_others	varchar(50)	specify others
pregnant	enum('yes', 'no')	is pregnant?
months_pregnant	int(10)	number of months pregnant
breastfeeding	enum('yes', 'no')	is breastfeeding?
hormone_replacement	enum('yes', 'no')	is undergoing hormone replacement?
menstruation	enum('yes', 'no')	has menstruation?
contraceptive	enum('yes', 'no')	using contraceptive?
enumerate_contraceptive	varchar(50)	what contraceptive
updatedBy	varchar(50)	Clinician who updated the record

date_updated	varchar(50)	Date the record was updated
time_updated	varchar(50)	Time the record was updated
version	int(11)	Update version of the record

Table 7: patient_check_list

Attribute	Datatype	Description
consultation_id	int(11)	Consultation ID
patient_id	int(11)	Patient ID
consultation_date	varchar(50)	Date of Consultation
consultation_reason	varchar(100)	Reason for consultation
consultation_from	varchar(50)	Consultation from
consultation_to	varchar(50)	Consultation to
consultation_findings	varchar(100)	Consultation Findings
consultation_clinician	varchar(50)	Consultation Clinician
consultation_clinician_nature	varchar(50)	Clinician Nature
updatedBy	varchar(50)	Clinician who updated the record
date_updated	varchar(50)	Date the record was updated
time_updated	varchar(50)	Time the record was updated
version	int(11)	Update version of the record

Table 8: patient_consultation_referrals table

Attribute	Datatype	Description
dent_id	int(11)	Dental History ID
patient_id	int(11)	Patient ID
dent_DOLV	varchar(20)	Date of Last Visit to the dentist
dent_procedure	varchar(50)	Procedure of the last visit
dent_frequency	varchar(50)	Frequency of dental visits
dent_anesthesia	varchar(50)	Reaction to anesthesia
dent_complications	varchar(50)	Dental complications
updatedBy	varchar(50)	Clinician who updated the record
date_updated	varchar(50)	Date the record was updated
time_updated	varchar(50)	Time the record was updated
version	int(11)	Update version of the record

Table 9: patient_dental_history table

Attribute	Datatype	Description
med_id	int(11)	Medical History ID
patient_id	int(11)	Patient ID
physician_name	varchar(30)	Physician Name
physician_phone	bigint(15)	Physician Contact Number

hospital_date	varchar(15)	Date of latest hospitalization
hospital_reason	varchar(50)	Reason for latest hospitalization
allergies	varchar(50)	Patient allergies
illnesses	varchar(50)	Patient illnesses
medications	varchar(50)	Patient Medications
childhood_diseases	varchar(50)	Patient Childhood diseases
updatedBy	varchar(50)	Clinician who updated the record
date_updated	varchar(50)	Date the record was updated
time_updated	varchar(50)	Time the record was updated
version	int(11)	Update version of the record

Table 10: patient_medical_history table

Attribute	Datatype	Description
physical_assessment_id	int(11)	Physical assessment ID
patient_id	int(11)	Patient ID
gait	varchar(50)	Gait description
appearance	varchar(50)	Physical appearance of patient
defects	varchar(50)	Patient physical defects
updatedBy	varchar(50)	Clinician who updated the record
date_updated	varchar(50)	Date the record was updated
time_updated	varchar(50)	Time the record was updated
version	int(11)	Update version of the record

Table 11: patient_physical_assessment table

Attribute	Datatype	Description
view_id	int(11)	Record views ID
patient_id	int(11)	Patient ID
username	varchar(40)	Clinician username
user_fullname	varchar(50)	Clinician full name
patient_name	varchar(50)	Patient Name
access_date	varchar(30)	Date the record was viewed
access_time	varchar(30)	Time the record was viewed
month	varchar(10)	Month the record was viewed
date	varchar(2)	Exact date the record was viewed
year	varchar(4)	Year the record was viewed

Table 12: patient_record_views_table

Attribute	Datatype	Description
social_id	int(11)	Social History ID
patient_id	int(11)	Patient ID
cigar_use	enum('yes', 'no')	Does the patient use Cigar?
cigar_kind	varchar(30)	What kind of cigar
cigar_often	varchar(30)	How often does the patient smoke?
cigar_years	int(3)	Number of years the patient has been smoking
cigar_last	varchar(30)	Last time the patient smoked, if already stopped
alcohol_use	enum('yes', 'no')	Does the patient drink alcoholic beverages?
alcohol_kind	varchar(30)	What kind of alcoholic beverages
alcohol_often	varchar(30)	How often does the patient drink?
alcohol_years	int(3)	Number of years the patient has been drinking
alcohol_last	varchar(30)	Last time the patient drinked, if already stopped
drug_use	enum('yes', 'no')	Does the patient use drugs?
drug_kind	varchar(30)	What kind of drugs
drug_often	varchar(30)	How often does the patient use drugs
drug_years	int(3)	Number of years the patient has been using drugs
drug_last	varchar(30)	Last drug use, if already stopped
updatedBy	varchar(50)	Clinician who updated the record
date_updated	varchar(50)	Date the record was updated
time_updated	varchar(50)	Time the record was updated
version	int(11)	Update version of the record

Table 13: patient_social_history

Attribute	Datatype	Description
vitalsigns_id	int(11)	Vital Signs ID
patient_id	int(11)	Patient ID
blood_pressure	varchar(15)	Blood Pressure of Patient
pulse_rate	varchar(15)	Pulse rate of patient
respiration_rate	varchar(15)	Respiration rate of patient
temperature	varchar(10)	Patient temperature
weight	varchar(10)	Patient weight
updatedBy	varchar(50)	Clinician who updated the record
date_updated	varchar(50)	Date the record was updated
time_updated	varchar(50)	Time the record was updated
version	int(11)	Update version of the record

Table 14: vitalsigns_table

Attribute	Datatype	Description
radiographic_id	int(11)	Radiographic Exam ID
patient_id	int(11)	Patient ID

radiographic_date	varchar(50)	Radiographic Exam Date
toothnumber	set('18', '17', '16', '15', '14', '13', '12', '11', '21', '22', '23', '24', '25', '26', '27', '28', '38', '37', '36', '35', '34', '33', '32', '31', '41', '42', '43', '44', '45', '46', '47', '48')	Radiographic Exam Tooth number
findings	varchar(100)	Radiographic Exam Findings
updatedBy	varchar(50)	Clinician who updated the record
date_updated	varchar(50)	Date the record was updated
time_updated	varchar(50)	Time the record was updated
version	int(11)	Update version of the record

Table 15: radiographic_exam

Attribute	Datatype	Description
recurrent_id	int(11)	ID of recurrent caries status
patient_id	int(11)	ID of patient
distal_recurrent	set('18', '17', '16', '15', '14', '13', '12', '11', '21', '22', '23', '24', '25', '26', '27', '28', '38', '37', '36', '35', '34', '33', '32', '31', '41', '42', '43', '44', '45', '46', '47', '48')	distal surface with recurrent caries
buccal_recurrent	set('18', '17', '16', '15', '14', '13', '12', '11', '21', '22', '23', '24', '25', '26', '27', '28', '38', '37', '36', '35', '34', '33', '32', '31', '41', '42', '43', '44', '45', '46', '47', '48')	buccal surface with recurrent caries
mesial_recurrent	set('18', '17', '16', '15', '14', '13', '12', '11', '21', '22', '23', '24', '25', '26', '27', '28', '38', '37', '36', '35', '34', '33', '32', '31', '41', '42', '43', '44', '45', '46', '47', '48')	mesial surface with recurrent caries
lingual_recurrent	set('18', '17', '16', '15', '14', '13', '12', '11', '21', '22', '23', '24', '25', '26', '27', '28', '38', '37', '36', '35', '34', '33', '32', '31', '41', '42', '43', '44', '45', '46', '47', '48')	lingual surface with recurrent caries
occlusal_recurrent	set('18', '17', '16', '15', '14', '13', '12', '11', '21', '22', '23', '24', '25', '26', '27', '28', '38', '37', '36', '35', '34', '33', '32', '31', '41', '42', '43', '44', '45', '46', '47', '48')	occlusal surface with recurrent caries
updatedBy	varchar(50)	clinician who updated the record
date_updated	varchar(50)	date the record was updated
time_updated	varchar(50)	time the record was updated
version	int(11)	update version of the record

Table 16: recurrent_status

Attribute	Datatype	Description
service_id	int(11)	Services Needed ID
patient_id	int(11)	Patient ID
class_1	set('18', '17', '16', '15', '14', '13', '12', '11', '21', '22', '23', '24', '25', '26', '27', '28', '38', '37', '36', '35', '34', '33', '32', '31', '41', '42', '43', '44', '45', '46', '47', '48')	Class 1 type tooth
class_2	set('18', '17', '16', '15', '14', '13', '12', '11', '21', '22', '23', '24', '25', '26', '27', '28', '38', '37', '36', '35', '34', '33', '32', '31', '41', '42', '43', '44', '45', '46', '47', '48')	Class 2 type tooth
class_3	set('18', '17', '16', '15', '14', '13', '12', '11', '21', '22', '23', '24', '25', '26', '27', '28', '38', '37', '36', '35', '34', '33', '32', '31', '41', '42', '43', '44', '45', '46', '47', '48')	Class 3 type tooth
class_4	set('18', '17', '16', '15', '14', '13', '12', '11', '21', '22', '23', '24', '25', '26', '27', '28', '38', '37', '36', '35', '34', '33', '32', '31', '41', '42', '43', '44', '45', '46', '47', '48')	Class 4 type tooth
class_5	set('18', '17', '16', '15', '14', '13', '12', '11', '21', '22', '23', '24', '25', '26', '27', '28', '38', '37', '36', '35', '34', '33', '32', '31', '41', '42', '43', '44', '45', '46', '47', '48')	Class 5 type tooth
onlay	set('18', '17', '16', '15', '14', '13', '12', '11', '21', '22', '23', '24', '25', '26', '27', '28', '38', '37', '36', '35', '34', '33', '32', '31', '41', '42', '43', '44', '45', '46', '47', '48')	Onlay type tooth
extraction	set('18', '17', '16', '15', '14', '13', '12', '11', '21', '22', '23', '24', '25', '26', '27', '28', '38', '37', '36', '35', '34', '33', '32', '31', '41', '42', '43', '44', '45', '46', '47', '48')	Tooth that needs extraction
odontectomy	set('18', '17', '16', '15', '14', '13', '12', '11', '21', '22', '23', '24', '25', '26', '27', '28', '38', '37', '36', '35', '34', '33', '32', '31', '41', '42', '43', '44', '45', '46', '47', '48')	Tooth that needs odontectomy
special_case	set('18', '17', '16', '15', '14', '13', '12', '11', '21', '22', '23', '24', '25', '26', '27', '28', '38', '37', '36', '35', '34', '33', '32', '31', '41', '42', '43', '44', '45', '46', '47', '48')	Special case tooth
pulp_sedation	set('18', '17', '16', '15', '14', '13', '12', '11', '21', '22', '23', '24', '25', '26', '27', '28', '38', '37', '36', '35', '34', '33', '32', '31', '41', '42', '43', '44', '45', '46', '47', '48')	Tooth that needs pulp sedation
crown_recementation	set('18', '17', '16', '15', '14', '13', '12', '11', '21', '22', '23', '24', '25', '26', '27', '28', '38', '37', '36', '35', '34', '33', '32', '31', '41', '42', '43', '44', '45', '46', '47', '48')	Tooth that needs crown recementation
filling_service	set('18', '17', '16', '15', '14', '13', '12', '11', '21', '22', '23', '24', '25', '26', '27', '28', '38', '37', '36', '35', '34', '33', '32', '31', '41', '42', '43', '44', '45', '46', '47', '48')	Tooth that needs filling service
laminated	set('18', '17', '16', '15', '14', '13', '12', '11', '21', '22', '23', '24', '25', '26', '27', '28', '38', '37', '36', '35', '34', '33', '32', '31', '41', '42', '43', '44', '45', '46', '47', '48')	Tooth that needs to be laminated
single_crown	set('18', '17', '16', '15', '14', '13', '12', '11', '21', '22', '23', '24', '25', '26', '27', '28', '38', '37', '36', '35', '34', '33', '32', '31', '41', '42', '43', '44', '45', '46', '47', '48')	Tooth that needs single crown

bridge_service	set('18', '17', '16', '15', '14', '13', '12', '11', '21', '22', '23', '24', '25', '26', '27', '28', '38', '37', '36', '35', '34', '33', '32', '31', '41', '42', '43', '44', '45', '46', '47', '48')	Tooth that needs fixed bridge
anterior	set('18', '17', '16', '15', '14', '13', '12', '11', '21', '22', '23', '24', '25', '26', '27', '28', '38', '37', '36', '35', '34', '33', '32', '31', '41', '42', '43', '44', '45', '46', '47', '48')	anterior tooth
posterior	set('18', '17', '16', '15', '14', '13', '12', '11', '21', '22', '23', '24', '25', '26', '27', '28', '38', '37', '36', '35', '34', '33', '32', '31', '41', '42', '43', '44', '45', '46', '47', '48')	posterior tooth
other_endodontics	set('18', '17', '16', '15', '14', '13', '12', '11', '21', '22', '23', '24', '25', '26', '27', '28', '38', '37', '36', '35', '34', '33', '32', '31', '41', '42', '43', '44', '45', '46', '47', '48')	other endodontics services
periodontics	enum('yes', 'no')	management of periodonta disease
surgery	set('pedodontics', 'orthodontics')	pedodontics or orthodontics services
emergency_treatment	set('acute infections', 'traumatic injuries')	acute infections or traumatic injuries services
prosthodontics	set('complete denture', 'single denture', 'removable partial', 'others')	prosthodontics services
updatedBy	varchar(50)	Clinician who updated the record
date_updated	varchar(50)	Date the record was updated
time_updated	varchar(50)	Time the record was updated
version	int(11)	Update version of the record

Table 17: services_needed table

Attribute	Datatype	Description
soft_id	int(11)	Soft tissue examination ID
patient_id	int(11)	Patient ID
head_neck_tmj	varchar(50)	Description of the head, neck, and TMJ
mucosa	varchar(50)	Description of mucosa
pharynx	varchar(50)	Description of pharynx
tongue	varchar(50)	Description of tongue
salivary_gland	varchar(50)	Description of salivary gland
gingiva	varchar(50)	Description of gingiva
lips	varchar(50)	Description of lips
palate	varchar(50)	Description of palate
mouth_floor	varchar(50)	Description of mouth floor
lymph_nodes	varchar(50)	Description of lymph nodes
thyroid	varchar(50)	Description of thyroid

updatedBy	varchar(50)	Clinician who updated the record
date_updated	varchar(50)	Date the record was updated
time_updated	varchar(50)	Time the record was updated
version	int(11)	Update version of the record

Table 18: soft_tissue_exam table

Attribute	Datatype	Description
filling_id	int(11)	ID of temporary filling status
patient_id	int(11)	ID of patient
distal_filling	set('18', '17', '16', '15', '14', '13', '12', '11', '21', '22', '23', '24', '25', '26', '27', '28', '38', '37', '36', '35', '34', '33', '32', '31', '41', '42', '43', '44', '45', '46', '47', '48')	distal surface with temporary filling
buccal_filling	set('18', '17', '16', '15', '14', '13', '12', '11', '21', '22', '23', '24', '25', '26', '27', '28', '38', '37', '36', '35', '34', '33', '32', '31', '41', '42', '43', '44', '45', '46', '47', '48')	buccal surface with temporary filling
mesial_filling	set('18', '17', '16', '15', '14', '13', '12', '11', '21', '22', '23', '24', '25', '26', '27', '28', '38', '37', '36', '35', '34', '33', '32', '31', '41', '42', '43', '44', '45', '46', '47', '48')	mesial surface with temporary filling
lingual_filling	set('18', '17', '16', '15', '14', '13', '12', '11', '21', '22', '23', '24', '25', '26', '27', '28', '38', '37', '36', '35', '34', '33', '32', '31', '41', '42', '43', '44', '45', '46', '47', '48')	lingual surface with temporary filling
occlusal_filling	set('18', '17', '16', '15', '14', '13', '12', '11', '21', '22', '23', '24', '25', '26', '27', '28', '38', '37', '36', '35', '34', '33', '32', '31', '41', '42', '43', '44', '45', '46', '47', '48')	occlusal surface with temporary filling
updatedBy	varchar(50)	clinician who updated the record
date_updated	varchar(50)	date the record was updated
time_updated	varchar(50)	time the record was updated
version	int(11)	update version of the record

Table 19: tempfilling_status table

E. Open DentIS Clinician Role Privileges

The Open DentIS clinicians must have the following privileges:

- Access Dental Module Index
- Add Concept Proposals
- Add Observations
- Add Patients
- Add People
- Edit Concept Proposals

- Edit Observations
- Edit Patients
- Manage Concept Datatypes
- Manage Concept Sources
- Manage Dental Records
- Manage Forms
- Manage Concept Name tags
- Manage Concepts
- Manage Location Tags
- Manage Modules
- Manage Locations
- Manage Programs
- Patient Dashboard – View Demographics Section
- Patient Dashboard – View Forms Section
- Patient Dashboard – View Overview Section
- Patient Dashboard – View Patient Summary
- Record Views Log
- Research
- View Concept Classes
- View Concept Datatypes
- View Concept Proposals
- View Concept Sources
- View Concepts
- View Encounter Types
- View Field Types
- View Encounters
- View FormEntry Archive
- View FormEntry Queue
- View Forms
- View Locations
- View Navigation Menu
- View Locations
- View Observations
- View Orders
- View Patient Cohorts
- View Patient Identifiers
- View Patient Programs
- View Patients
- View People
- View Problems
- View Programs
- View Report Objects
- View Reports
- View Users

V. TECHNICAL ARCHITECTURE

The system will basically use Apache Tomcat 6.0, OpenMRS 1.7.1, and MySQL5 or XAMPP 1.7.4. The required hardware depends on the implementation size. Any desktop or laptop can be used for small implementations. For 100s of patients, the minimum system requirements are 1 GHz processor or better, 256 MB of memory or more, 40 GB hard drive or larger. For 10,000 patients, the minimum system requirements are 1.5+ GHz, 2 GB of memory, and 150+ GB of disk space with RAID and appropriate backup facilities. For over 250,000 patients, minimum requirements are two 2.26 GHz quad processors, 16 GB of memory, 500 GB of disk space with RAID and appropriate backup facilities [25].

The Java Heap Memory minimum must be set to 512MB and maximum 1024MB in the setenv.sh file.

The system will run just like a usual website and will require network access. The client side must have any of the following compatible web browsers:

- Mozilla Firefox
- Google Chrome
- Safari
- Opera

Compatible operating systems include:

- Windows XP, Windows Vista, Windows 7
- Linux

VI. RESULTS

The homepage of OpenMRS, shown in Figure 20, is also its login page. Users who are not logged in will not be able to view anything from the OpenMRS homepage.

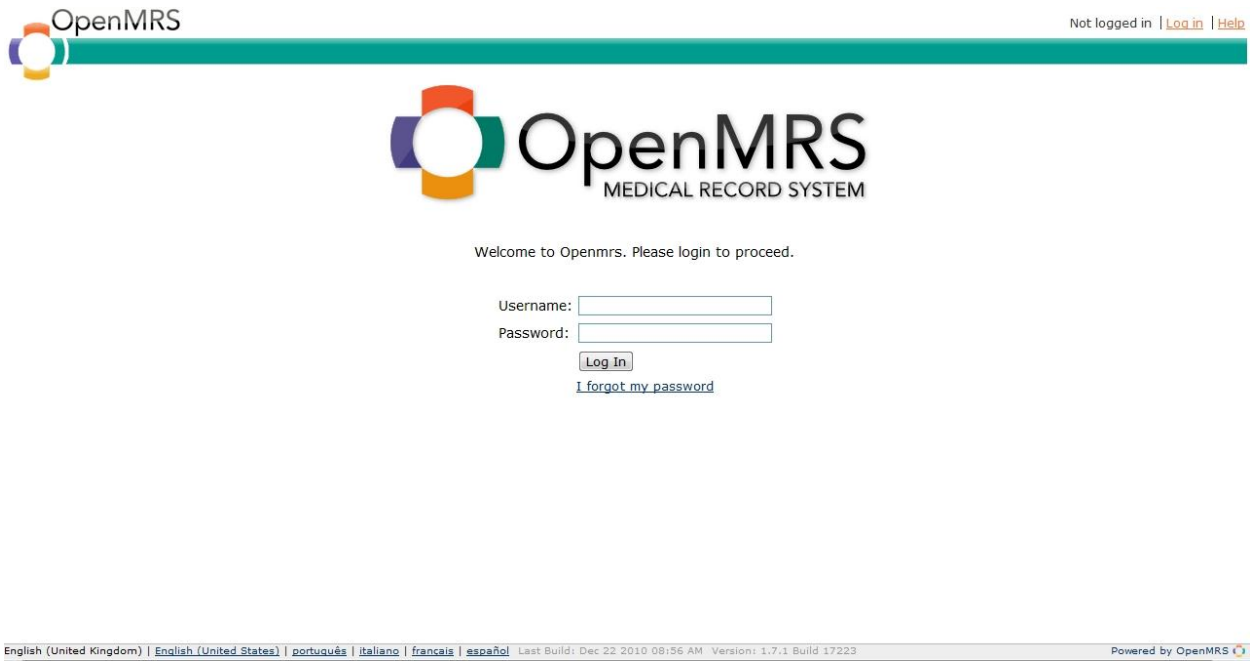


Figure 20 OpenMRS homepage

After logging in, the registered user or the clinician will now be able to access the navigation menu of the OpenMRS, as shown in Figure 21. The Find/Create Patient, Dictionary, Cohort Builder, and Administration links are built-in with OpenMRS. Meanwhile, the Dental Module link in the navigation bar can be seen while the dental module is loaded.

Figure 21 OpenMRS User Homepage

The UP College of Dentistry dental lexicon can be found under the Dictionary menu. Figure 22 shows the page after clicking the Dictionary menu. The user can either search for the concept or add a concept. The latter option must be used sparingly.

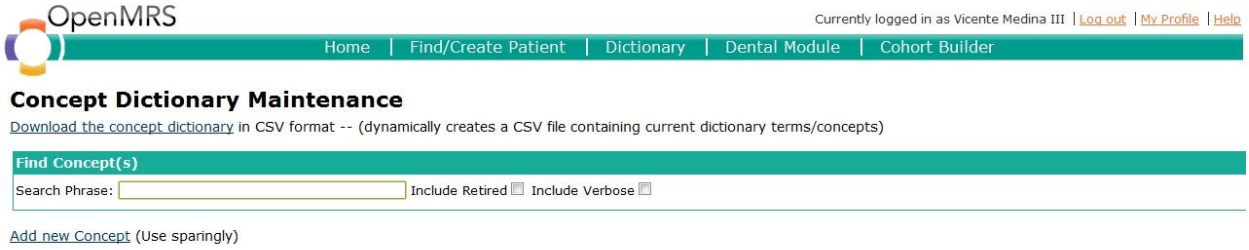


Figure 22 Concept Dictionary Page

If the clinician chooses to look for a concept in the dictionary, he or she must type the concept in the search box and the results will then be displayed. The desired concept must then be clicked in order to view the details. Figures 23 and 24 show the search and view concept feature.

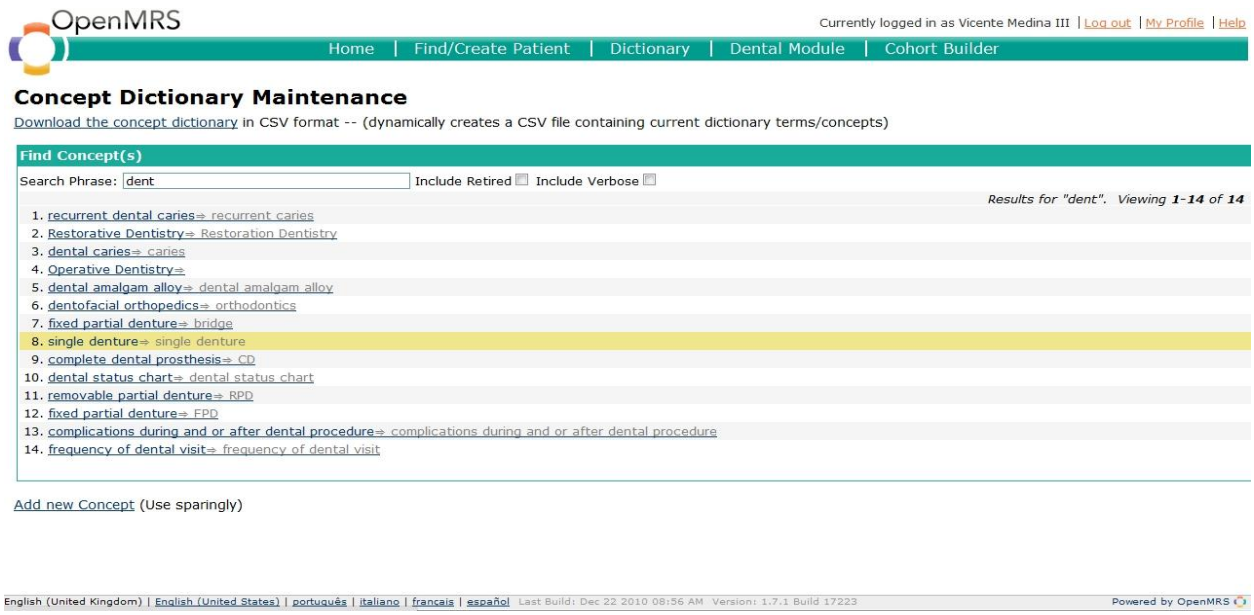


Figure 23 Search Concept

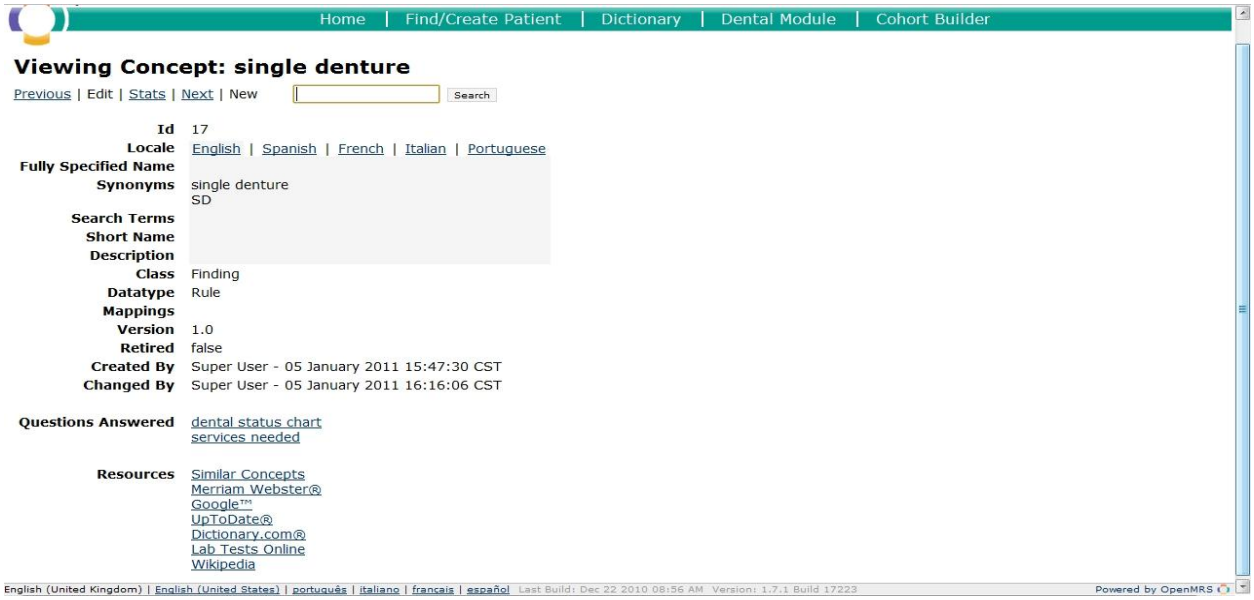


Figure 24 View Concept

In order to use the dental module, the clinician must first add a patient through the Find/Create Patient link in the navigation menu. Figure 25 shows the Find/Create Patient page. Moreover, Figure 26 and 27 show how to add patient and edit the patient information. This Find/Create Patient feature is built-in with OpenMRS.

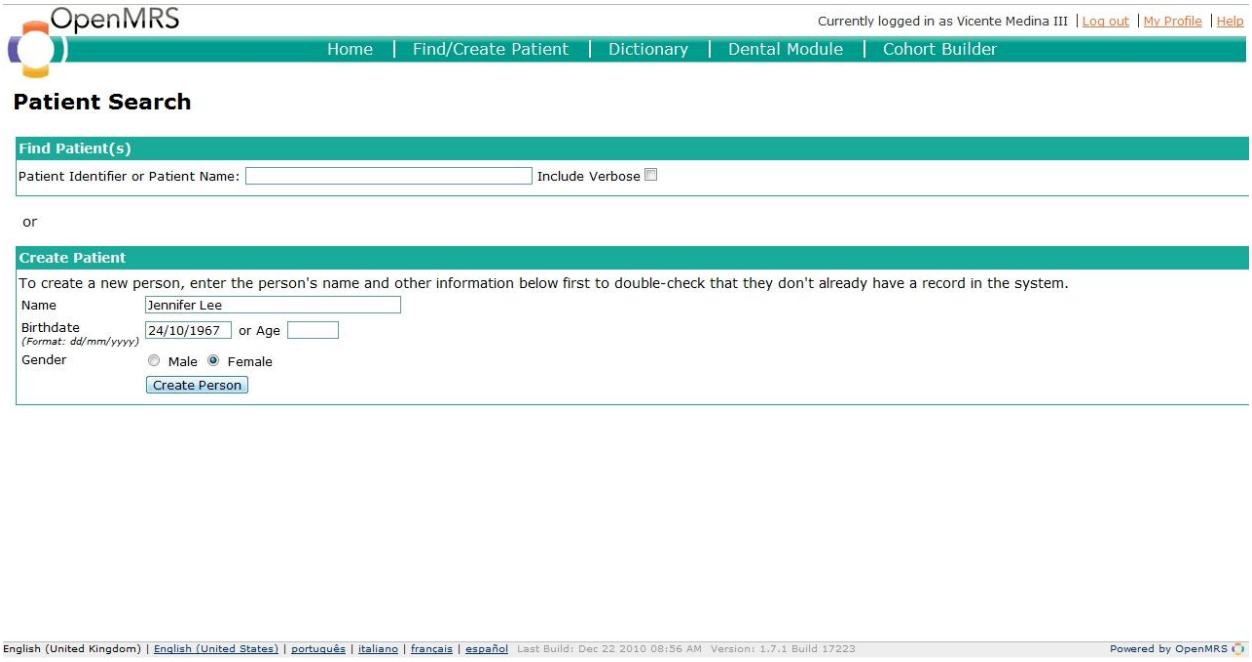


Figure 25 Find/Create Patient page

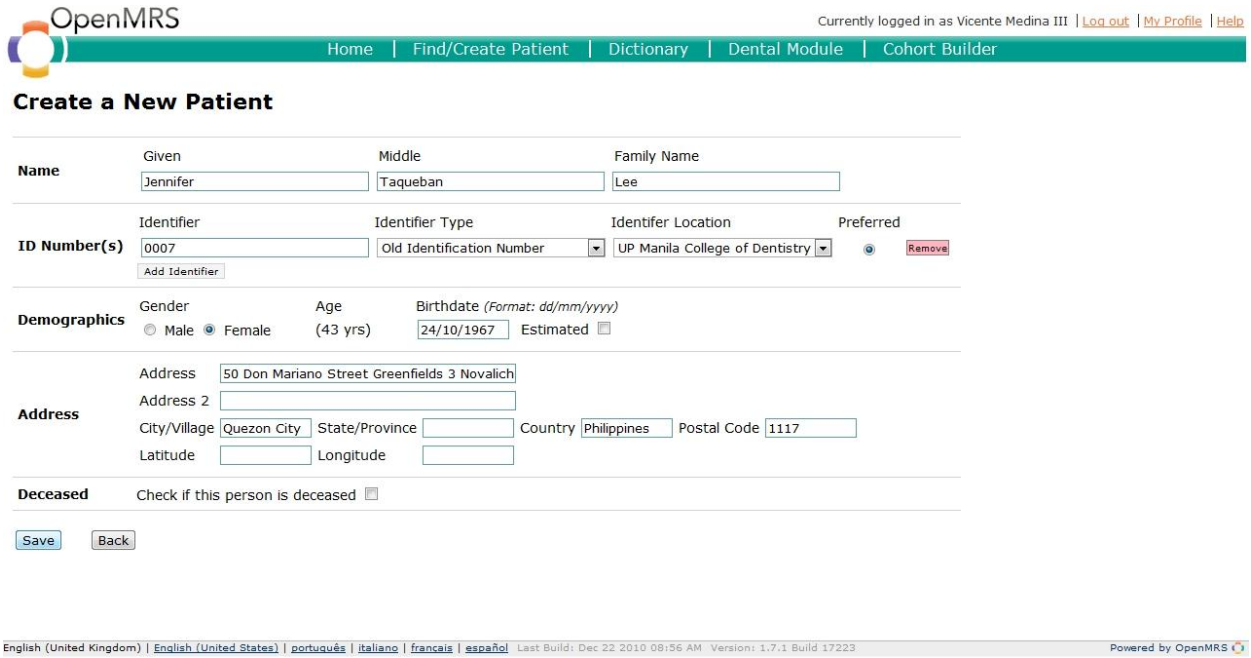


Figure 26 Creating a New Patient

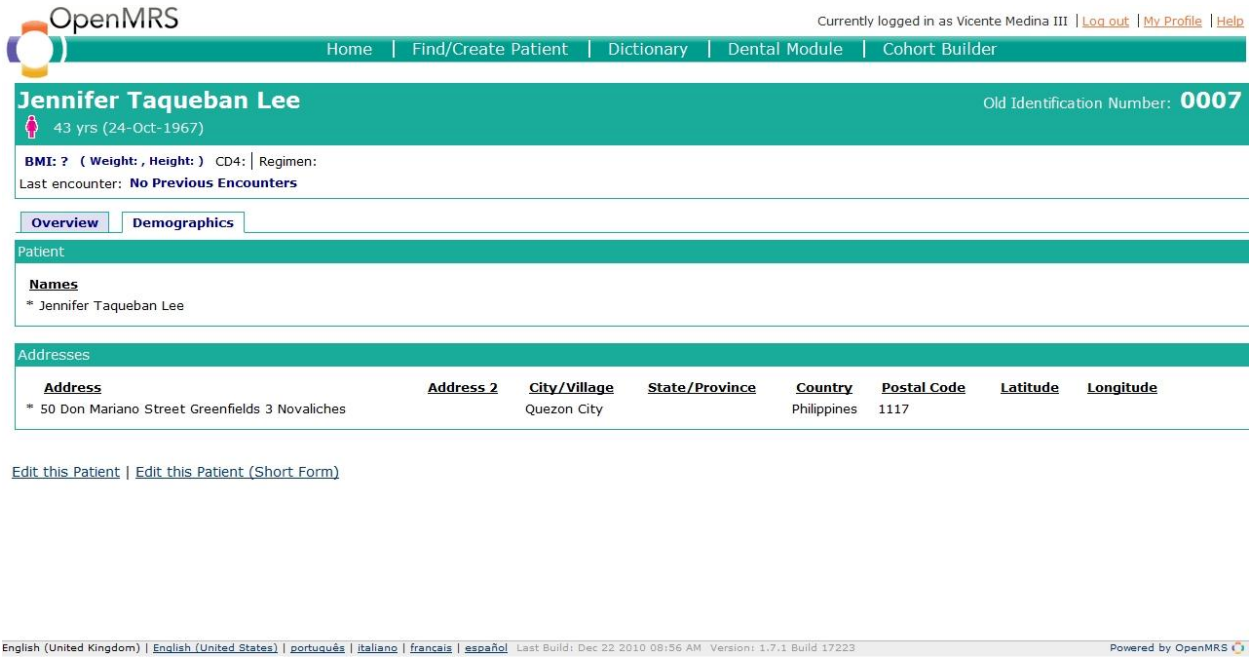


Figure 27 Successfully Created a New Patient

After creating a new patient, the clinician can now add dental records in the Dental Module. Figure 28 shows the Dental Module Index customized for the UP College of Dentistry.

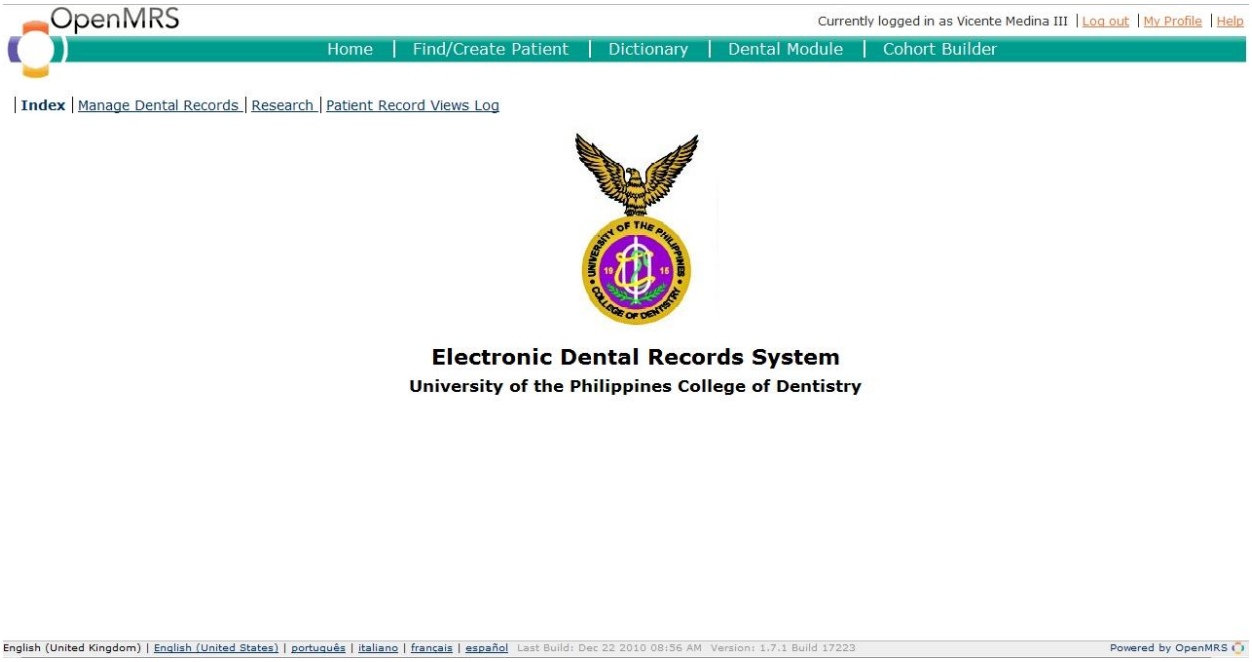


Figure 28 Dental Module Index

The clinician can manage dental records, do some research, or look at the record views log. Under the Manage Dental Records link, the clinician can search for his or her patients' records as shown in Figure 29. If the patient exists, then the clinician can then proceed to view the patient record, update the patient record, or view the archive as shown in Figure 30.

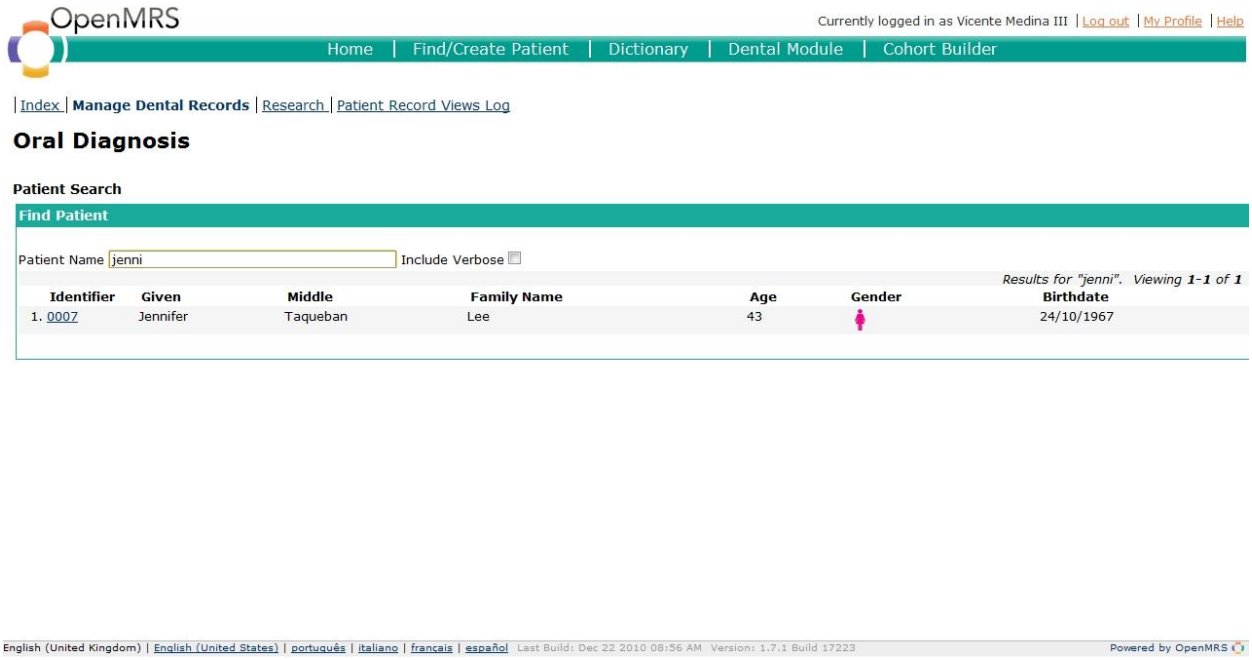


Figure 29 Find Patient in Oral Diagnosis

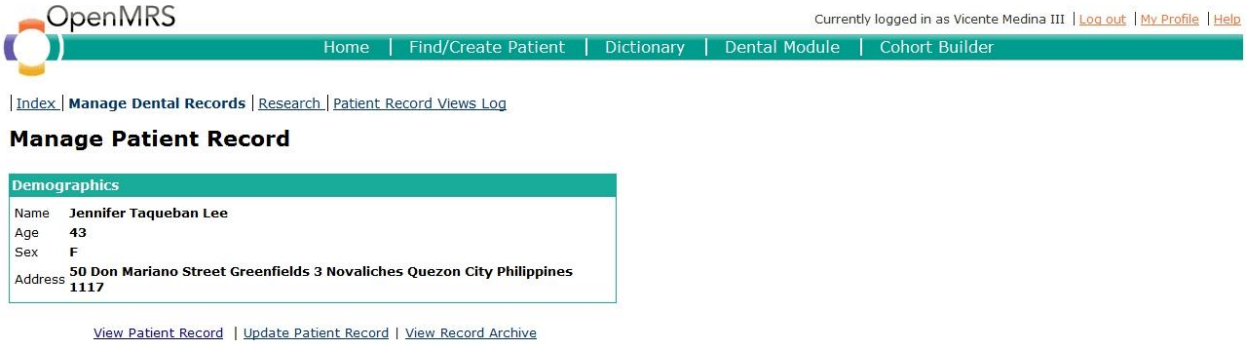


Figure 30 Manage Dental Record

Under the Update Patient Record link, the clinician can add and update patient information such as additional demographics, dental, medical and social history, physical assessment, vital signs, soft tissue examination result, radiographic examination result, patient checklist, and consultations and referrals. Figures 31-39 show the forms in each information tab.

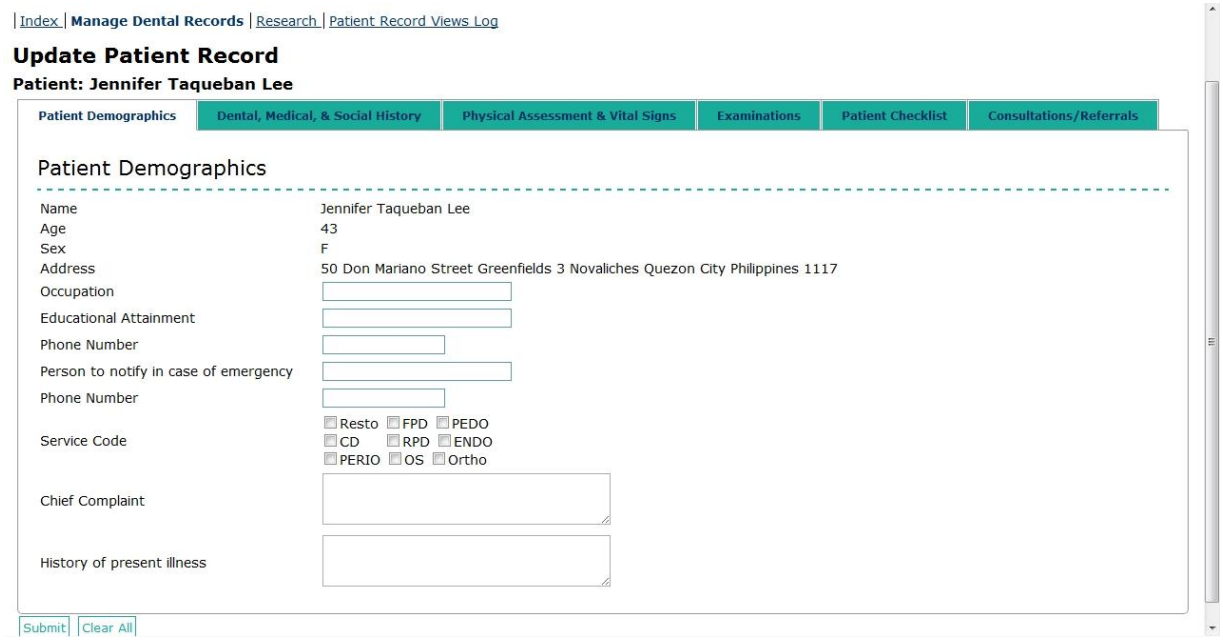


Figure 31 Update Patient Demographics Tab

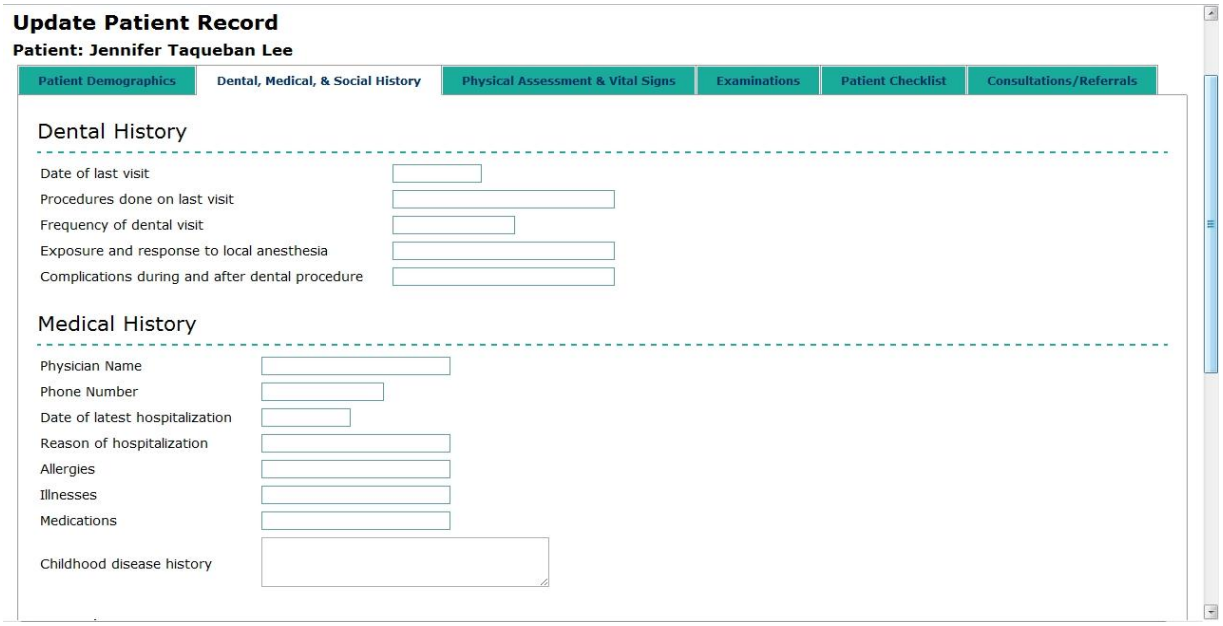


Figure 32 Update Dental, Medical, and Social History Tab

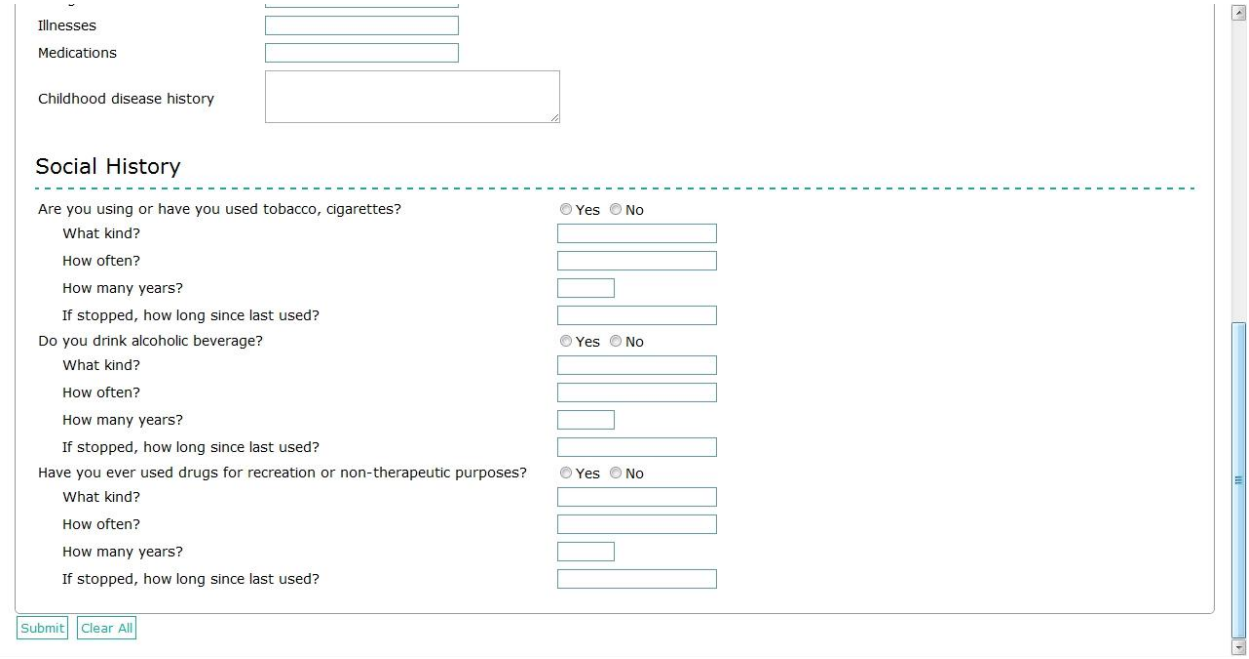


Figure 33 Update Dental, Medical, and Social History Tab (continuation)

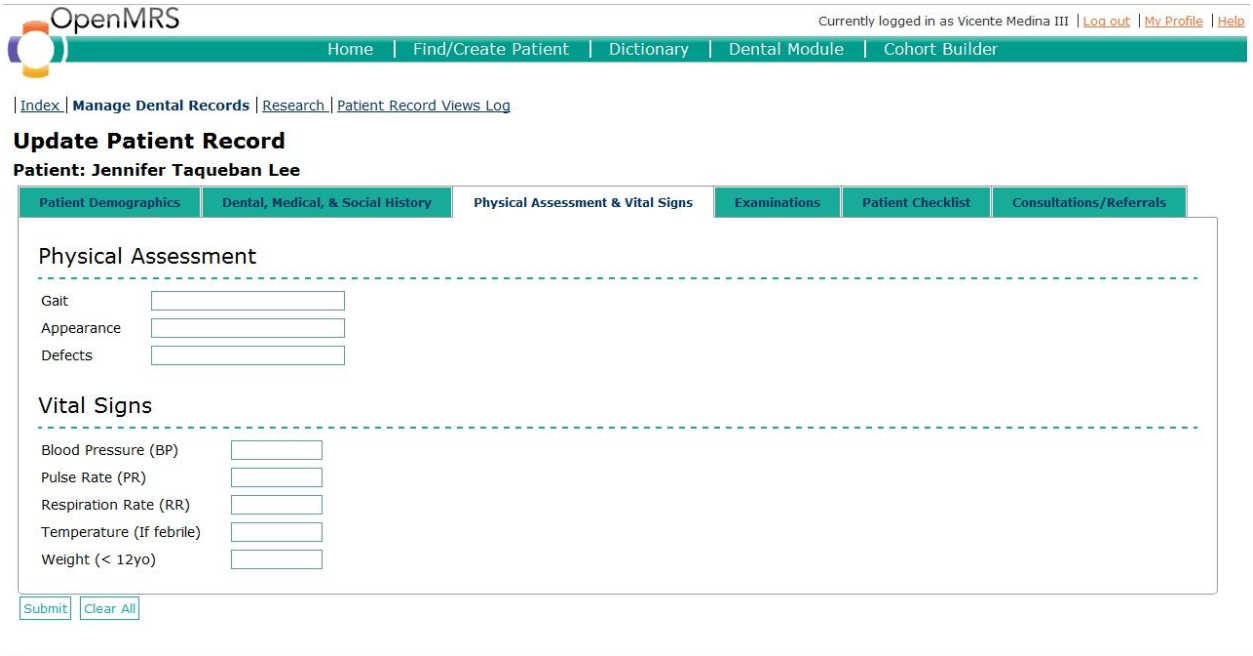


Figure 34 Update Physical Assessment and Vital Signs Tab

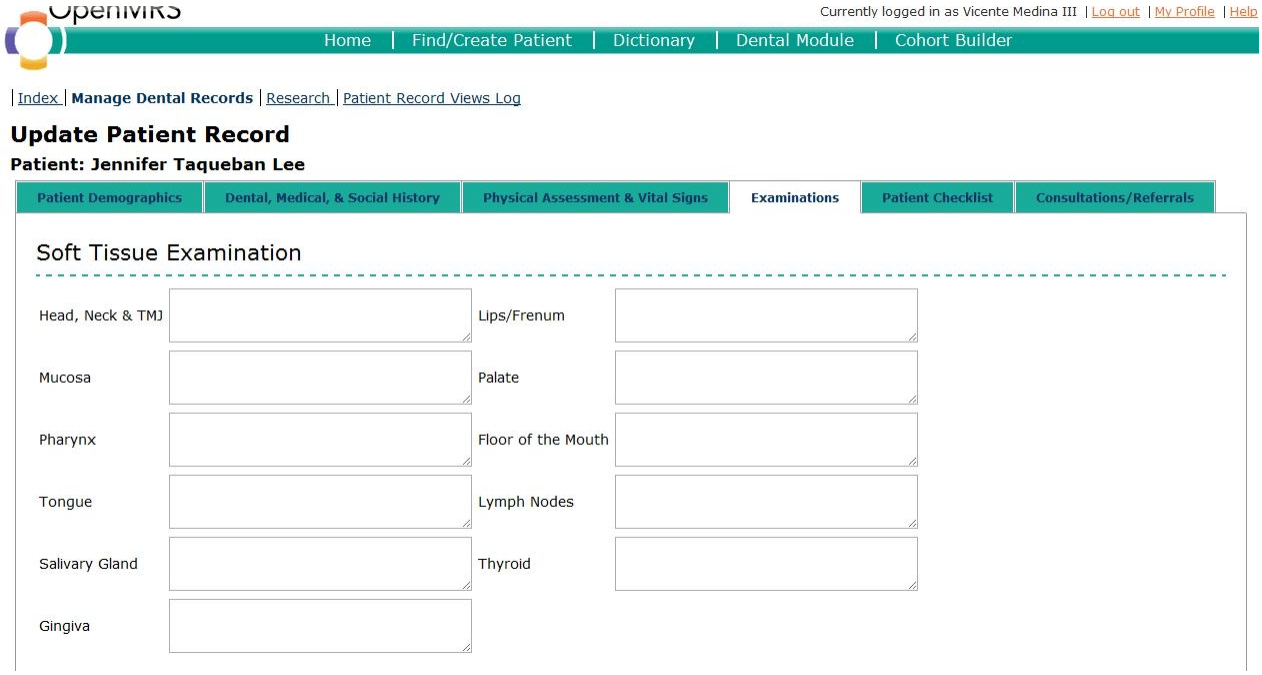


Figure 35 Update Examinations Tab – Soft Tissue Examination

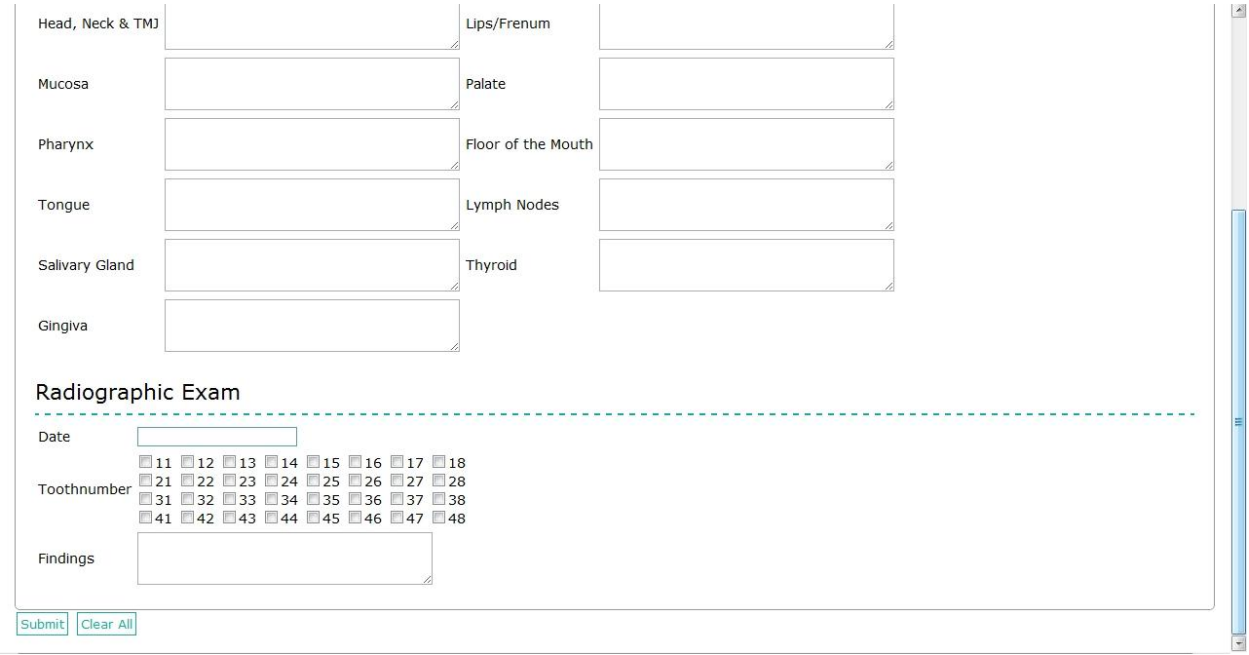


Figure 36 Update Examinations Tab – Radiographic Examination

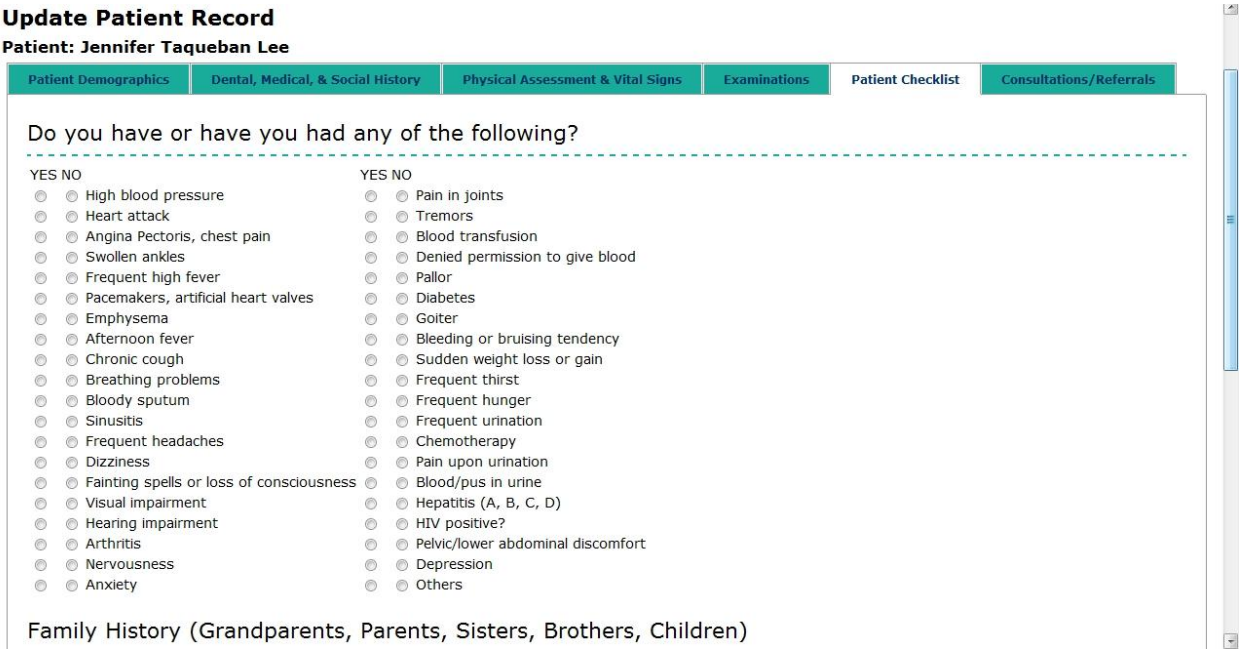


Figure 37 Update Patient Checklist

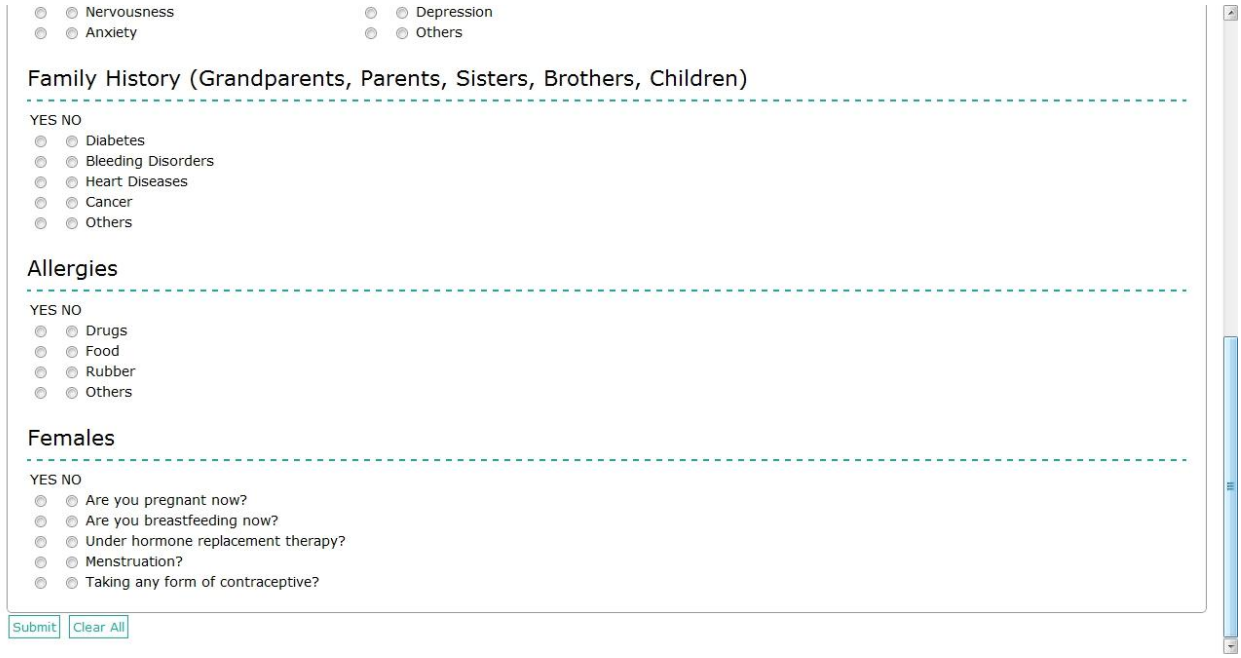


Figure 38 Update Patient Checklist (continuation)

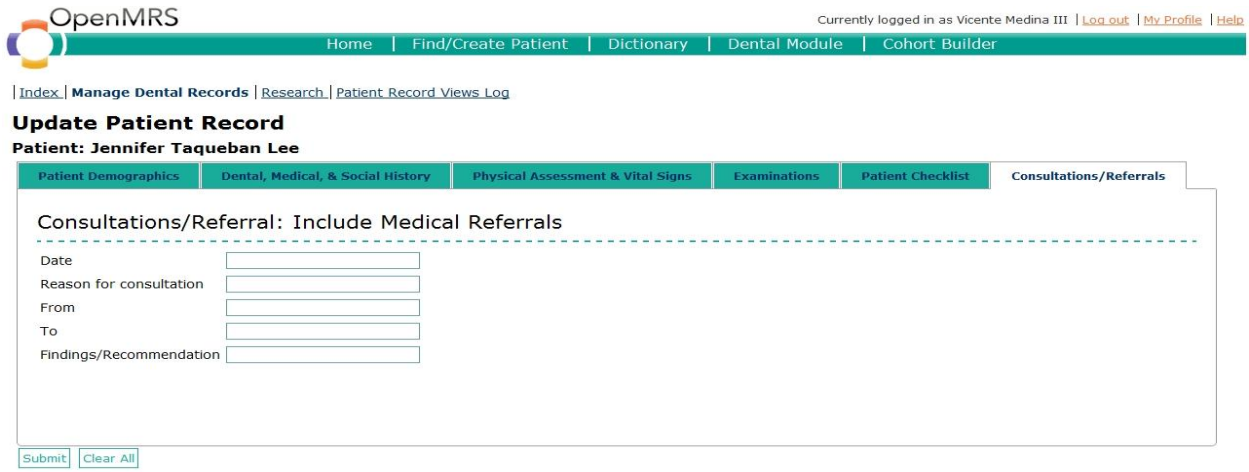


Figure 39 Update Consultations/Referrals Tab

After completely filling out the forms, the clinician can then submit and proceed to the Dental Status Chart, shown in Figure 40 and 41. The Dental Status Chart is the graphical representation of the patient's teeth. The teeth status and services needed for the patient are added here.

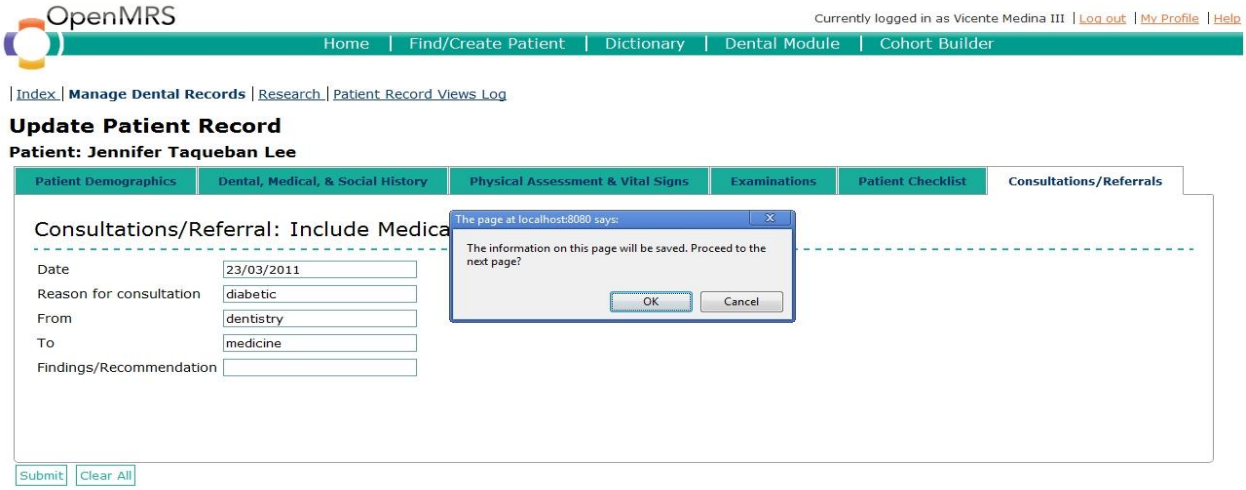


Figure 40 Submit Dental Record

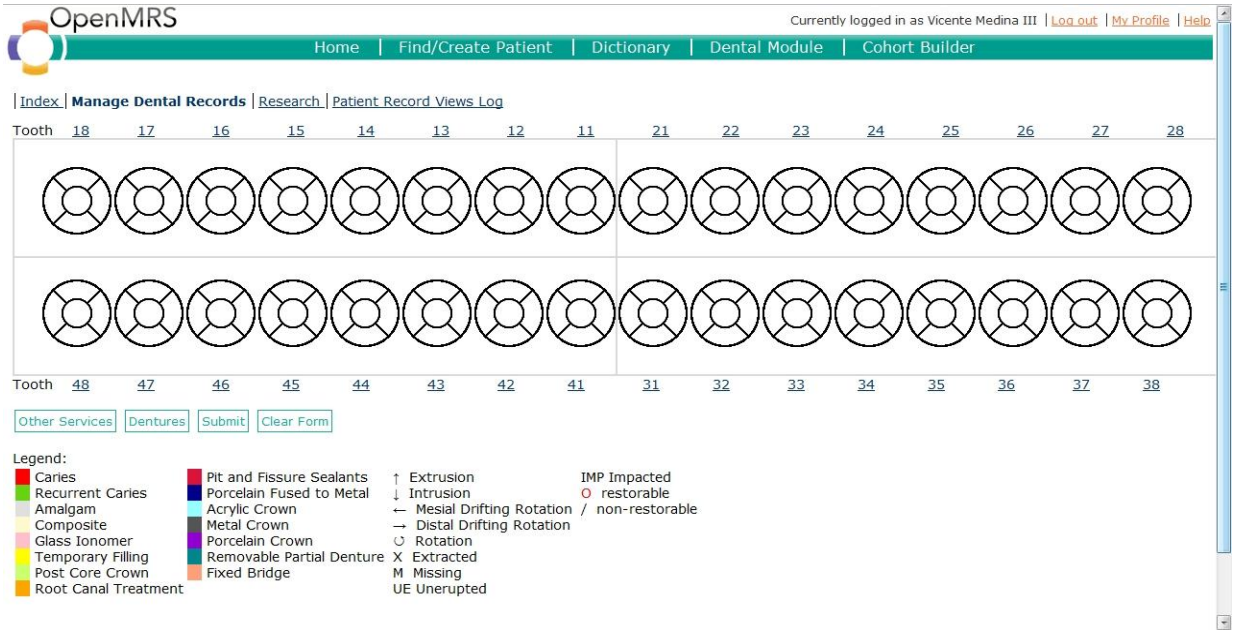


Figure 41 Dental Status Chart

By clicking at each tooth link, a form will appear. The form provides the dental status per tooth, as shown in figure 42. When a status is selected through the checkboxes, corresponding drawings will appear on the tooth. Figure 43 shows an example of dental status graphical representations.

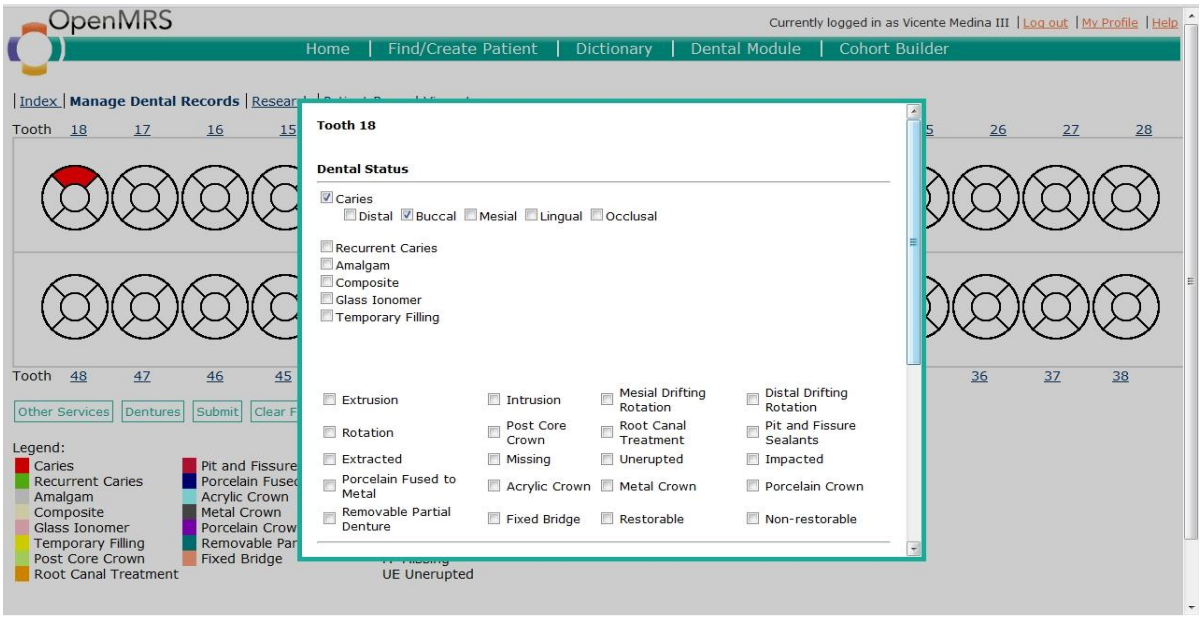


Figure 42 Selection of Dental Status per Tooth

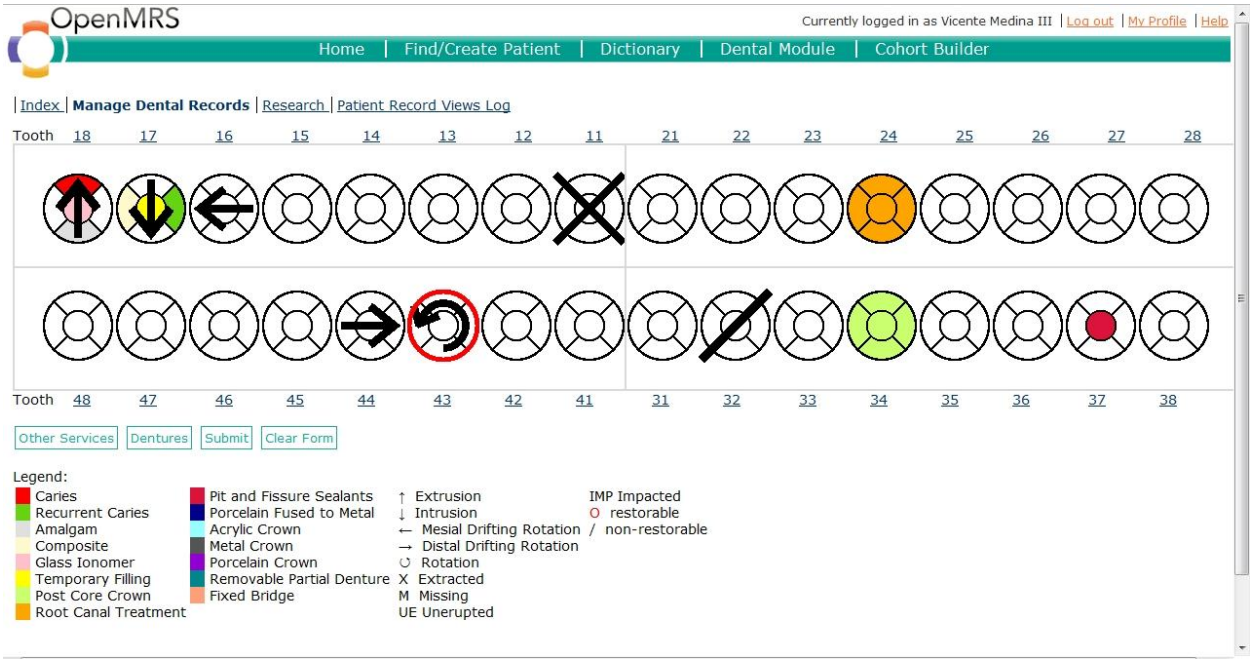


Figure 43 Example Graphical Representation

The legend per graphical representation is given below the chart for easier analysis. Red represents caries, green represents recurrent caries, upward arrow represents extrusion, and so on.

Figure 44 Legend

The services needed per tooth can also be selected by clicking each tooth link.

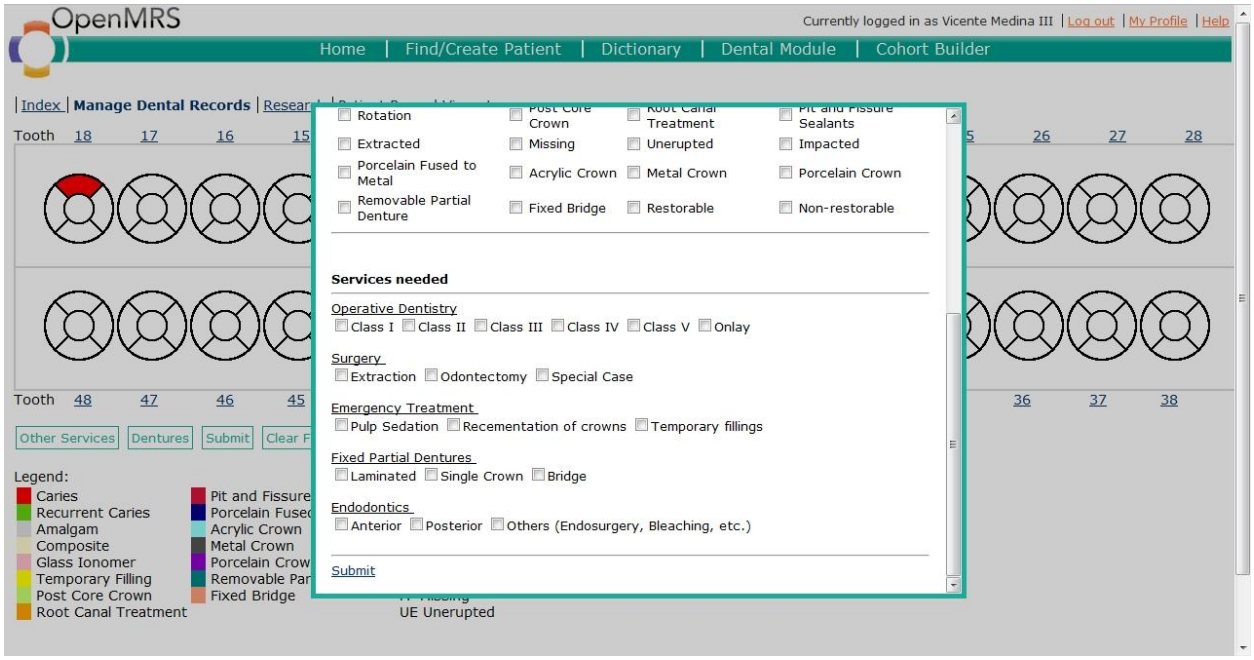


Figure 45 Services Needed Form Per Tooth

In the Denture Status, tooth number is not that important for Complete and Single Dentures because they involve all or almost all of the teeth. Because of this, the Denture Status is separated from the tooth link. Figure 46 illustrates the form when the Dentures button is clicked.

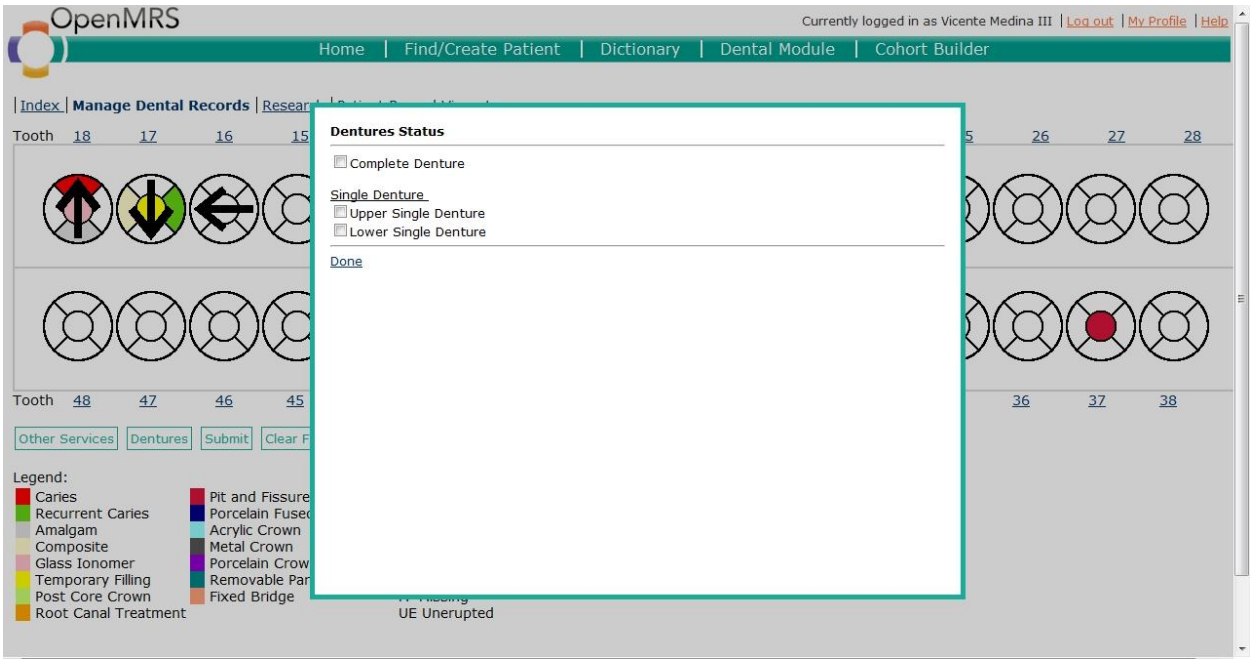


Figure 46 The Dentures Status

When Complete Denture is selected, all the teeth are colored just like in Figure 47. Meanwhile, if one of the single dentures is selected, either the upper or the lower teeth are colored, as shown in Figure 48.

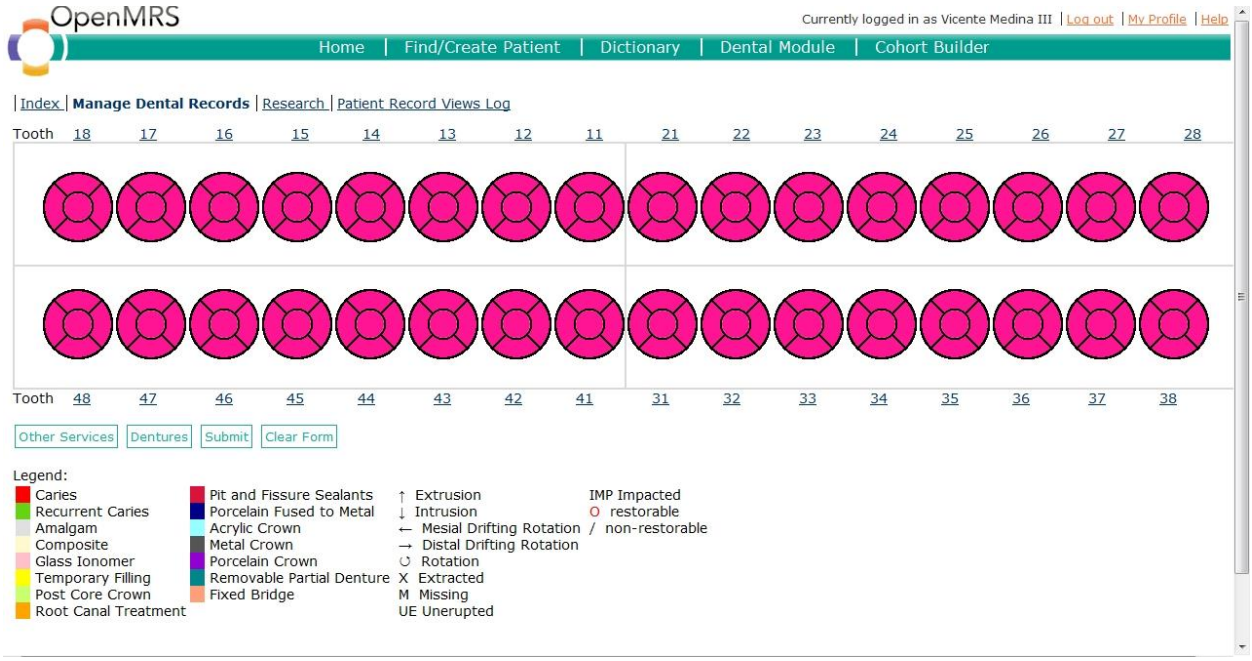


Figure 47 Complete Denture

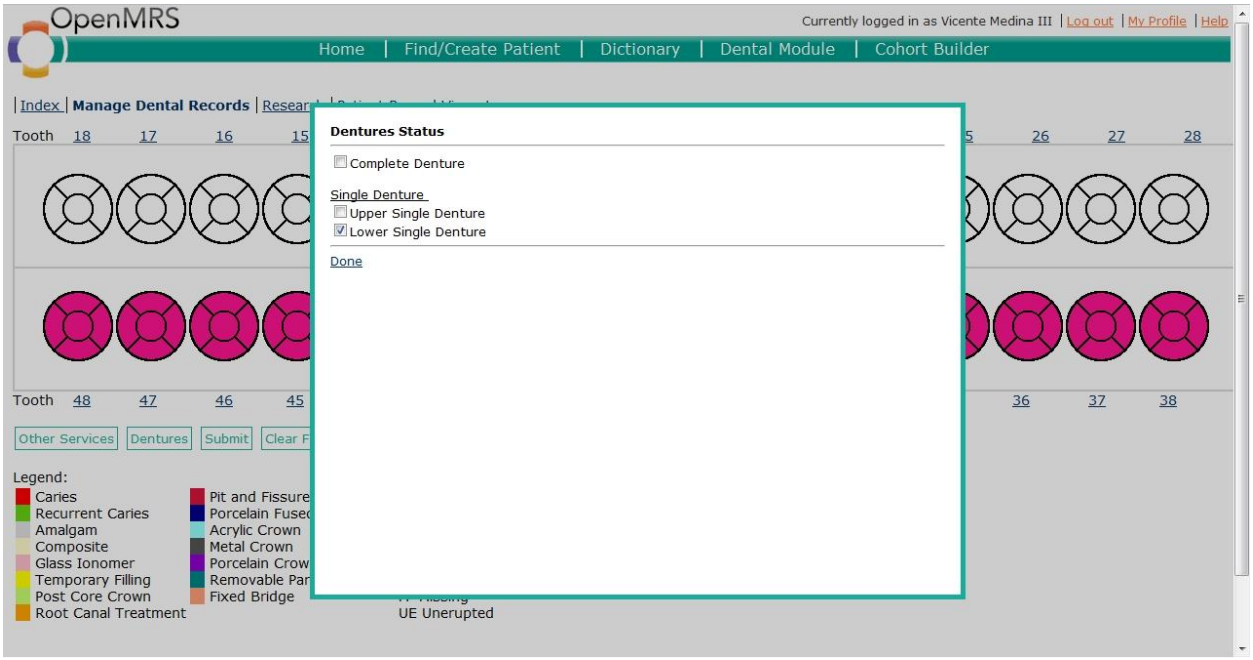


Figure 48 Lower Single Denture

Meanwhile, the Other Services button is similar to the Dentures button. They are separated from the tooth link form because they involve all or almost all of the teeth. Figure 49 shows the form after clicking the Other Services button.

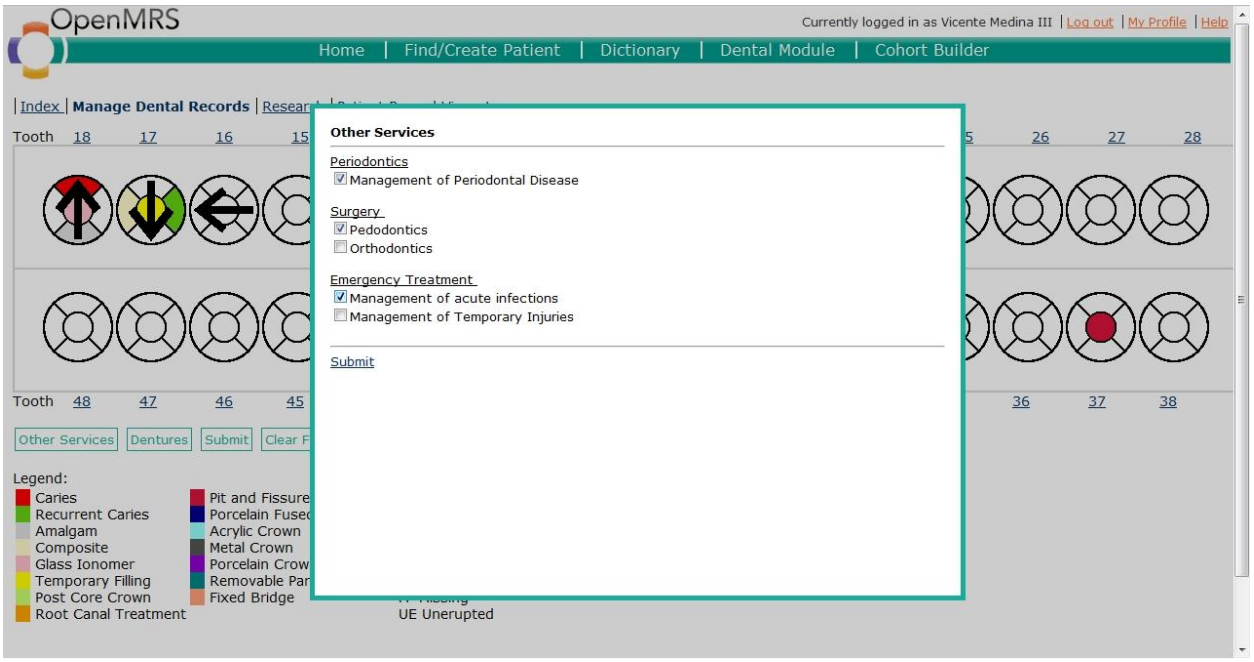


Figure 49 Other Services Button

After filling out the forms, the clinician can now click the Submit button in order to add the Dental Status Chart and Services needed record. The clinician will then be redirected to a page telling that he or she has successfully added the record.

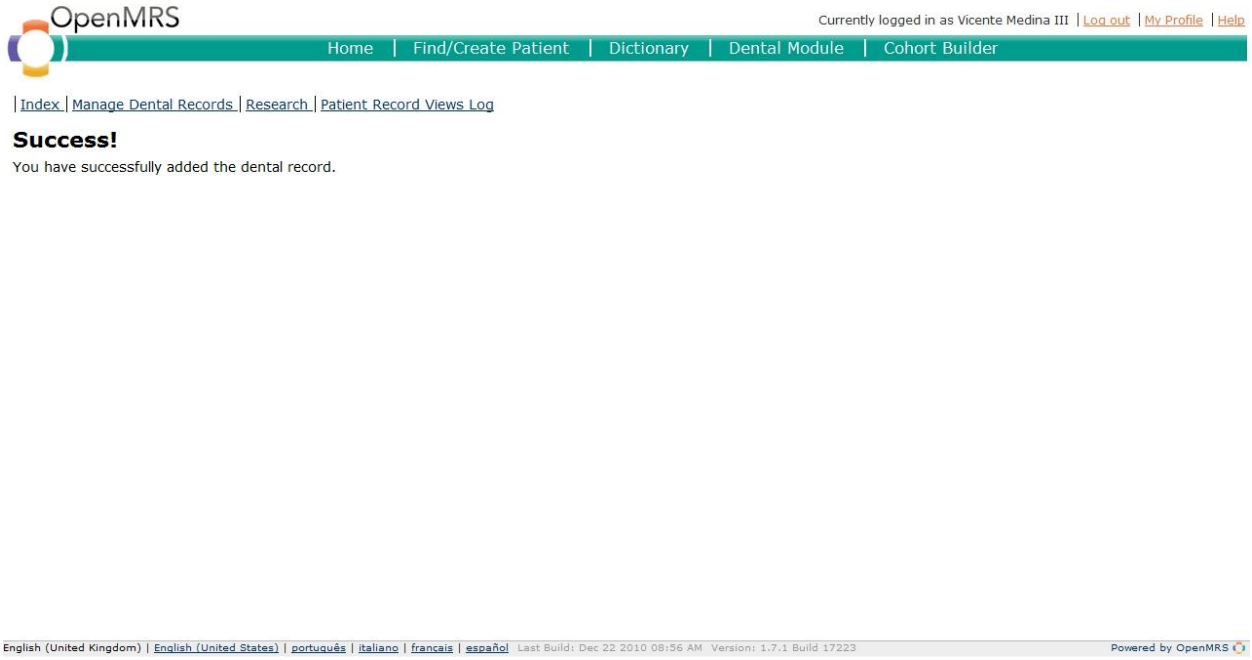


Figure 50 Adding of Dental Record is Successful

The clinician can now view the updated record by going to figure 31 again. The View Dental Record looks like:

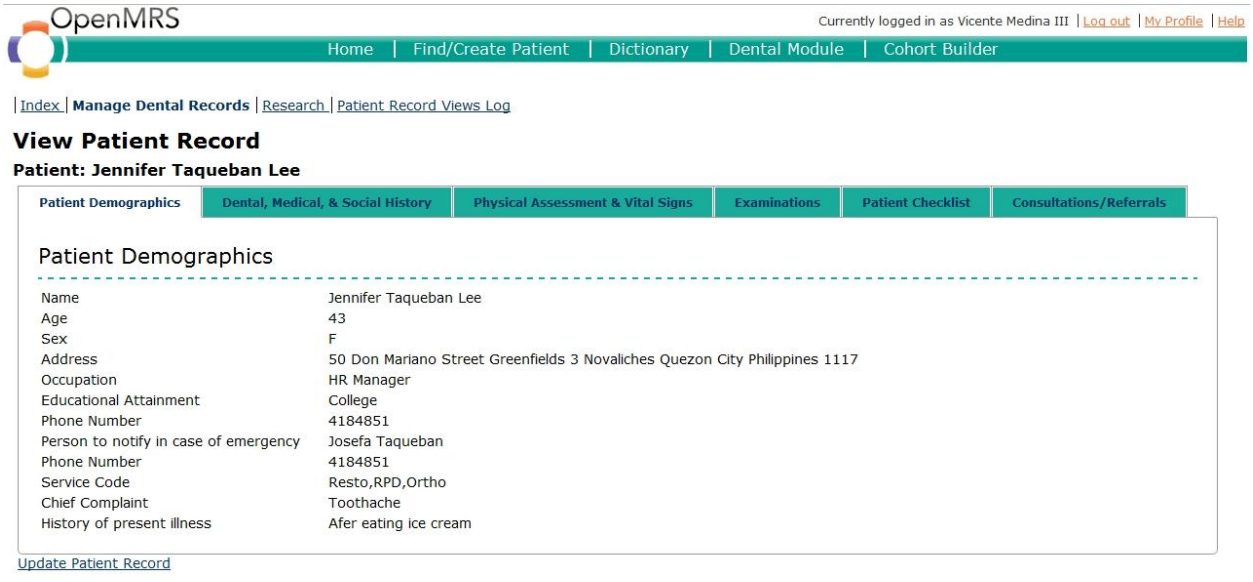


Figure 51 View Dental Records

If the dental record has been updated many times, the clinician can view the previous records in the View Record Archive Section.

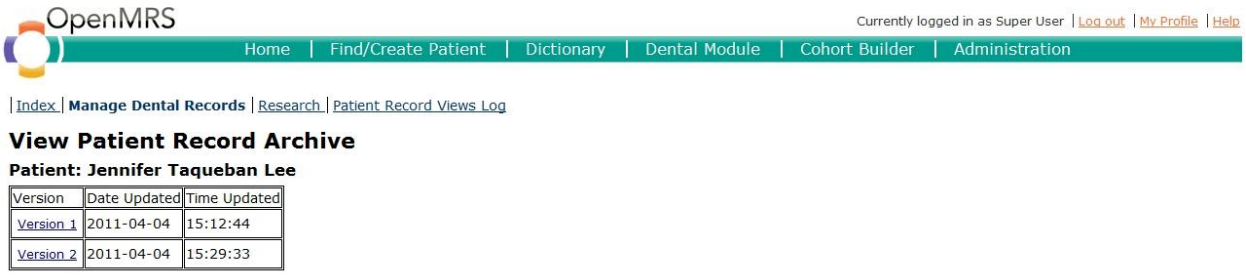


Figure 52 View Record Archive

The clinician can also see who views the patient records per month.

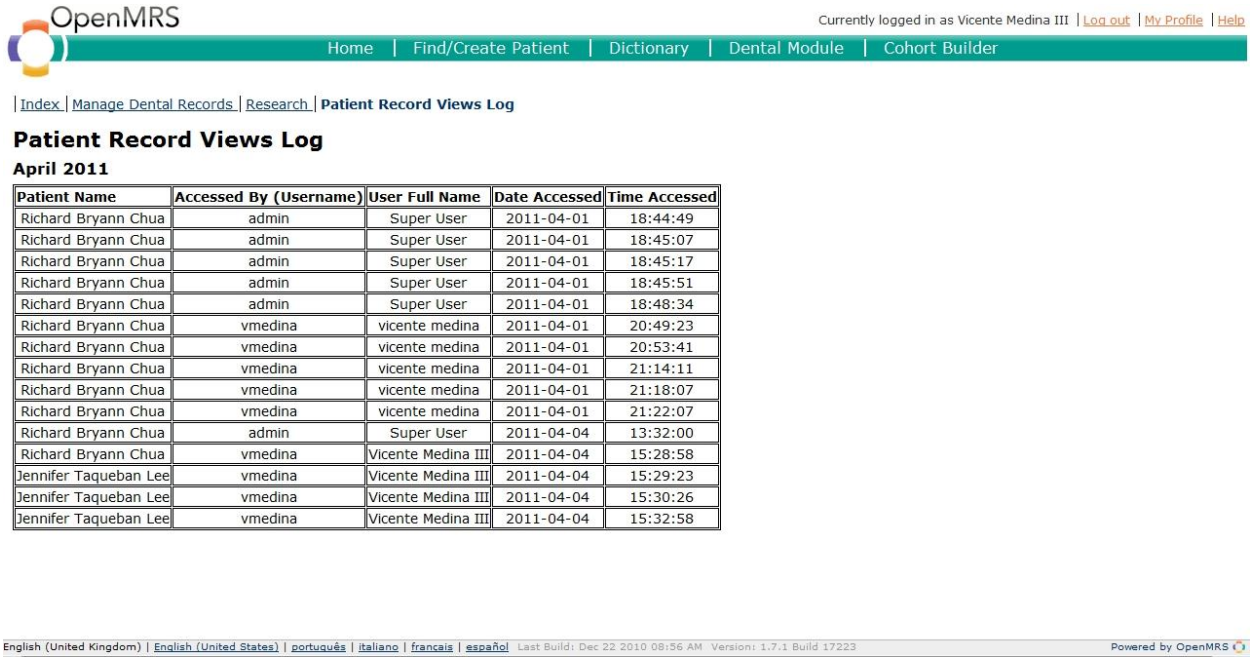


Figure 53 Patient Record Views Log

The clinician can also search for patients having a certain demographic, disease, history, etc. Figure 54 shows the Research Page, where the clinician can specify the search fields. After which, the results will be displayed as shown in Figure 55.

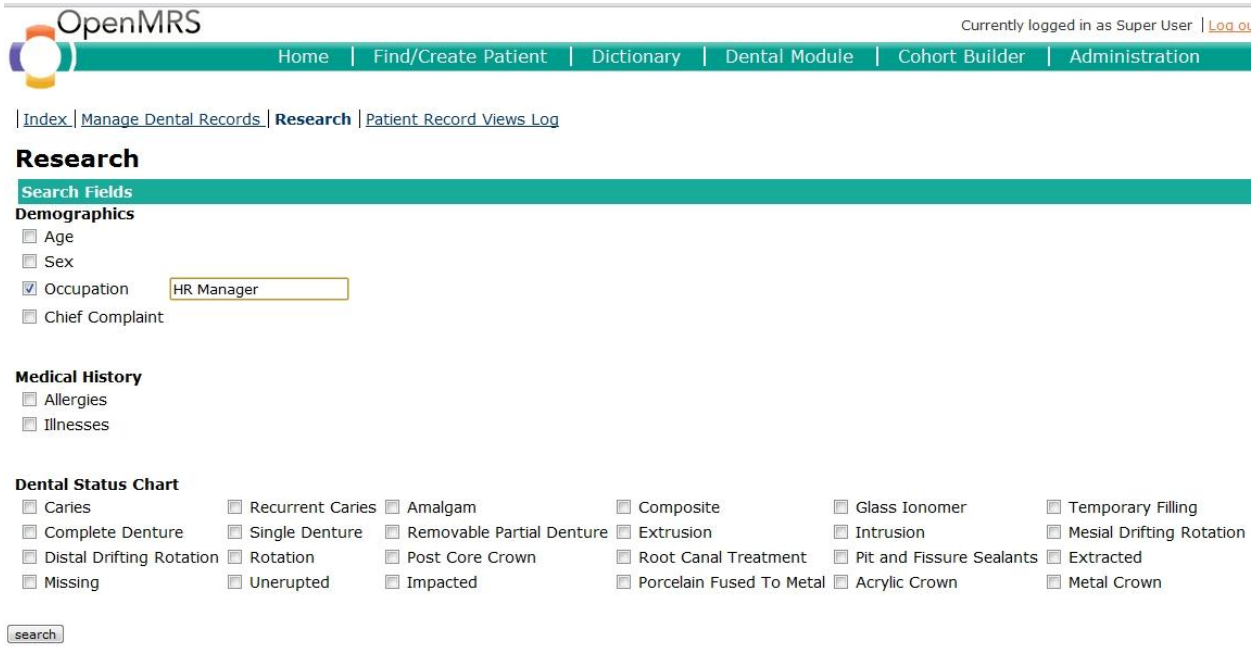


Figure 54 Research Page

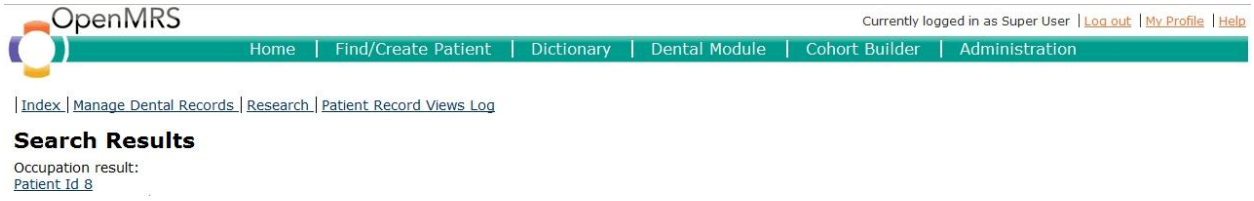


Figure 55 Results Page

Managing of user accounts is done by the System Administrator. By going to the Administration Link in the navigation bar, he or she can manage the users of the Dental Information System. Figure 56 shows the Administration Page.

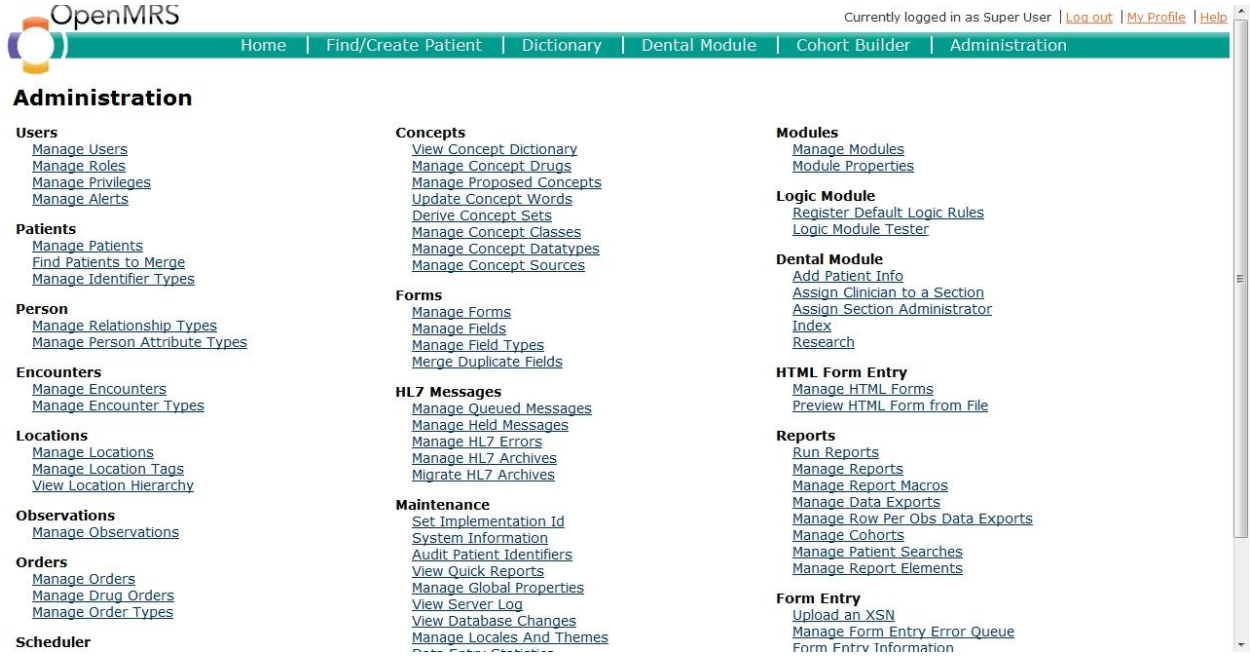


Figure 56 Administration Page

To be able to manage the Users, proceed to the Manage Users link. Figures 57, 58, and 59 shows how to add, edit, or view users.

Figure 57 User Management Page – Add or Find Users

Figure 58 Add User

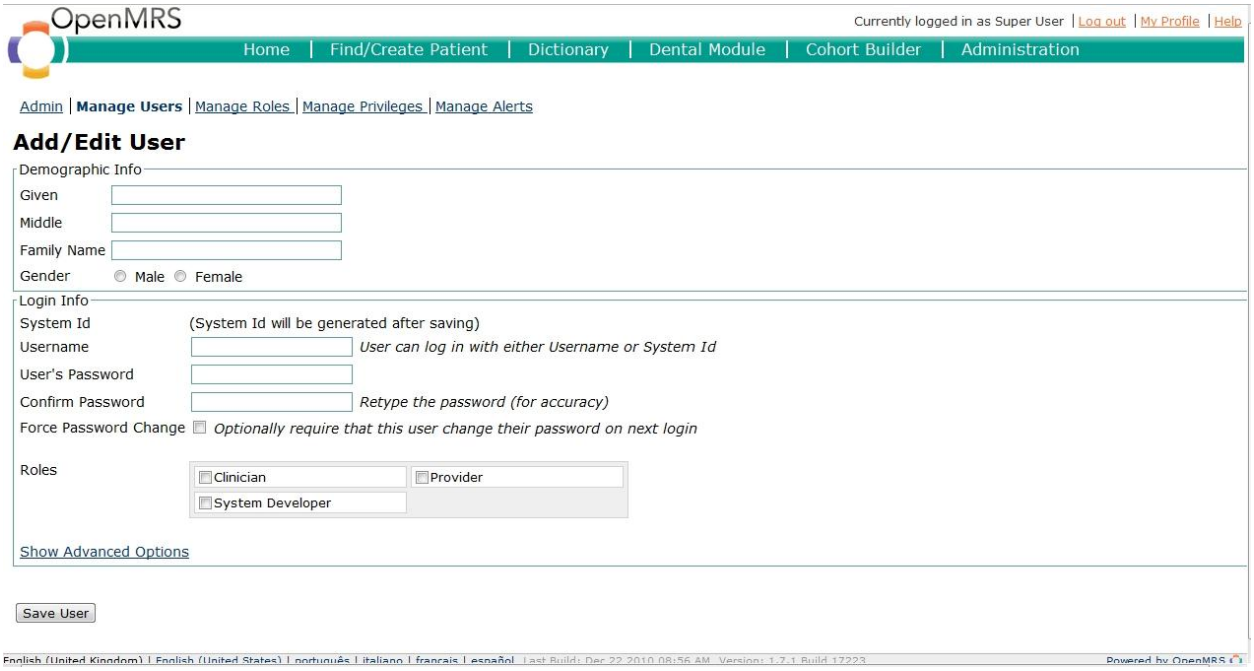


Figure 59 Add/Edit User Details

VII. DISCUSSION

Open DentIS is an electronic medical and dental records system specifically designed for the Clinical Dental Sciences Department of the University of the Philippines College of Dentistry. Since the department uses paper dental records, Open DentIS is designed to store the records electronically. The system has only two users – clinicians and system administrators. The system offers clinicians to add and store dental records which include the patient demographics, dental, medical and social history, vital signs, physical assessment, patient checklist, soft tissue examination result, radiographic examination result, dental status, problem list worksheet or the services needed by the patient, as well as the consultations and referrals. Open DentIS also offers a graphical representation of the teeth. With just a few clicks, clinicians will be able to represent the patient dental status without having to draw using pen and paper. Having this electronic way of storing the dental records, the clinicians can now access the data in an easier and faster manner. The records are also more organized and securely kept as compared to the paper dental records system the UPCD is currently applying.

Being able to access the data easily and quickly encourages clinicians to look for patients with the certain dental disease or patients who need certain kinds of treatments. They will also be encouraged to know the statistics or number of patients with a certain kind of disease since they do not have to search through paper dental records one by one.

The system also offers to provide an archiving feature of the previous dental records which can be helpful in comparing the latest dental record to previous dental records. This enables easier tracking of changes made.

OpenMRS, as the platform of the dental information system, is helpful because it provides a highly customizable medical records system. OpenMRS also offers standardization of

medical and dental terms. Open DentIS has a dictionary feature which loads the UPCD dental lexicon.

VIII. CONCLUSION

The OpenMRS Dental Module has been successfully deployed in OpenMRS. Specifically designed for the UP College of Dentistry, a shift from paper dental records system to electronic dental records system is advantageous to the college because it is easier and faster to access and update dental records. The records are kept in a more organized and secured way. In addition to this, the dental status chart is graphically represented. Drawings and color representations are added with just a few clicks.

Clinicians are also able to keep track of changes made in the dental records because of the archiving feature of the system. A record views log is also applied in order to track the clinicians who view dental records.

Having an electronic dental record system also helps clinicians to look for patients with a specific kind of disease or patients who need a certain kind of treatment without having to scan the paper dental records one by one.

Open DentIS helps in the standardization of medical and dental terms through OpenMRS' concept dictionary feature.

Surely, Open DentIS has an edge compared to commercially available dental software online. Aside from offering a high quality Dental Information System, Open DentIS is free of cost and records are shared via network.

IX. RECOMMENDATION

Open DentIS offers a dental lexicon which is used for standardization of terms. More dental terms should be added to the Open DentIS dictionary. A bigger lexicon is better. Extra search fields could also be added

Also, the graphical representation of teeth could be improved. Transparencies could be set when coloring the teeth so that the colors would not overlap each other.

Additional features such as Appointments Scheduler could be added so that clinicians would be able to track and monitor patients who need continuous treatments. Other features present in commercial dental software could also be added such as billing and insurance management.

X. BIBLIOGRAPHY

[1] Dentist. Australian Dental Association <http://www.ada.org.au/dentalprofessionals/dentist.aspx>

Dentistry Center | What is Dentistry. The Health Professionals Directory. < http://healthprofs.com/cam/content/dentist_whatis.html>.

[2] Council on Dental Practice and the Division of Legal Affairs. "Dental Records." American Dental Association (2010).

[3] Bailit, H. L. "Health Services Research." Advances in Dental Research 17; (2003): 82-85

[4] Schleyer, T. and Spallek, H. "Dental Informatics: A cornerstone of Dental Practice." The Journal of the American Dental Association 132; (2001): 605-613.

[5] Sittig, D.F., Kirshner, M., and Maupomè, G. "Grand Challenges in Dental Informatics." Advances in Dental Research 17; (2003): 16-19.

[6] Schleyer, T. "Dental Informatics: A Work in Progress." Advances in Dental Research 17; (2003): 9-15.

[7] Schleyer, T. "Dental Informatics: An Emerging Bioinformatics Discipline." Advances in Dental Research 17; (2003): 4-8.

[8] "Dentrix." < http://www.dentrix.com>.

[9] “Setting Up a Dental Office with New Technology.” <http://www.uic.edu/classes/dadm/dadm396/lectSupplim-05/SoftwareOfficeSetUp.htm>

[10] Song, M. et al. “How information systems should support the information needs of general dentists in clinical settings: suggestions from a qualitative study.” BMC Medical Informatics and Decision Making 10 (2010);

[11] “KodakDental.” < http://www.kodakdental.com/us_region/practice/soft_features.aspx>.

[12] “Innobate.” < http://www.innobate.com/Products/DentalChart/>.

[13] “Oasys.” < http://www.oasys.us/txcard.php>.

[14] “OpenDental.” < http://www.opendental.com>.

[15] Thyvalikakath, T. P. et al. “A Usability Evaluation of Four Commercial Dental Computer-Based Records Systems.” The Journal of the American Dental Association 139; (2008): 1632-1642.

[16] Schleyer, T. “A Qualitative Investigation of the Content of Dental Paper-based and Computer-based Patient Record Formats.” The Journal of the American Dental Association 14; (2007): 515-526

[17] What are the Disadvantages of Medical Records?. < http://www.wisegeek.com/what-are-the-disadvantages-of-electronic-medical-records.htm>

[18] Wolfe, et al. “The OpenMRS System: Collaborating Toward an Open Source EMR for Developing Countries.” AMIA 2006 Symposium Proceedings (2006): 1146.

[19] “What is Medical Informatics?” < http://hsc.unm.edu>

[20] “OpenMRS >> Open source health IT for the planet.” OpenMRS. < http://openmrs.org/>.

[21] “Module Developer Documentation.” http://wiki.openmrs.org/display/docs/Module+Developer+Documentation

[22] “Medical Informatics.” http://is.ukzn.ac.za/Courses/medicalinformatics.aspx

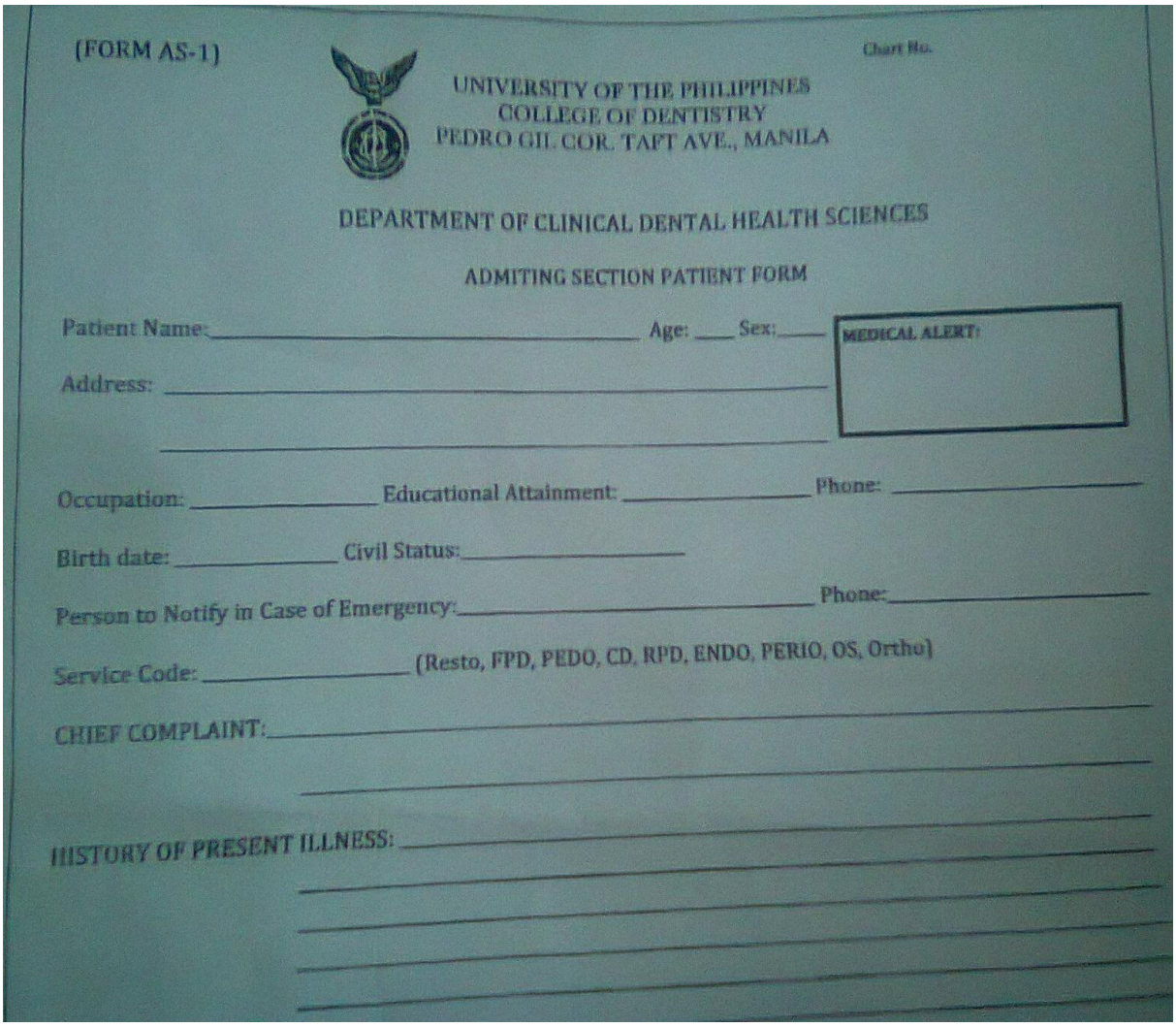
[23] Atkinson, J.C., Zeller, G. G., and Shah, C.B.A. “Electronic Patient Records for Dental School Clinics: More Than Paperless Systems.” Journal of Dental Education 66: 5.

[24] “Creating Modules.” <http://wiki.openmrs.org/display/docs/Creating+Modules>

[25] “System Requirements.” < https://wiki.openmrs.org/display/docs/System+Requirements>

“University of the Philippines Manila College of Dentistry.” < http://cd.upm.edu.ph/>.

XII. APPENDIX



(FORM AS-1)

Chart No.

UNIVERSITY OF THE PHILIPPINES
COLLEGE OF DENTISTRY
PEDRO GIL COR. TAFT AVE., MANILA

DEPARTMENT OF CLINICAL DENTAL HEALTH SCIENCES

ADMITING SECTION PATIENT FORM

Patient Name:_____ Age: ___ Sex:____

MEDICAL ALERT:

Address: _____

_____

Occupation: _____ Educational Attainment: _____ Phone: _____

Birth date: _____ Civil Status:_____

Person to Notify in Case of Emergency:_____ Phone:_____

Service Code: _____ (Resto, FPD, PEDO, CD, RPD, ENDO, PERIO, OS, Ortho)

CHIEF COMPLAINT:_____

_____

HISTORY OF PRESENT ILLNESS: _____

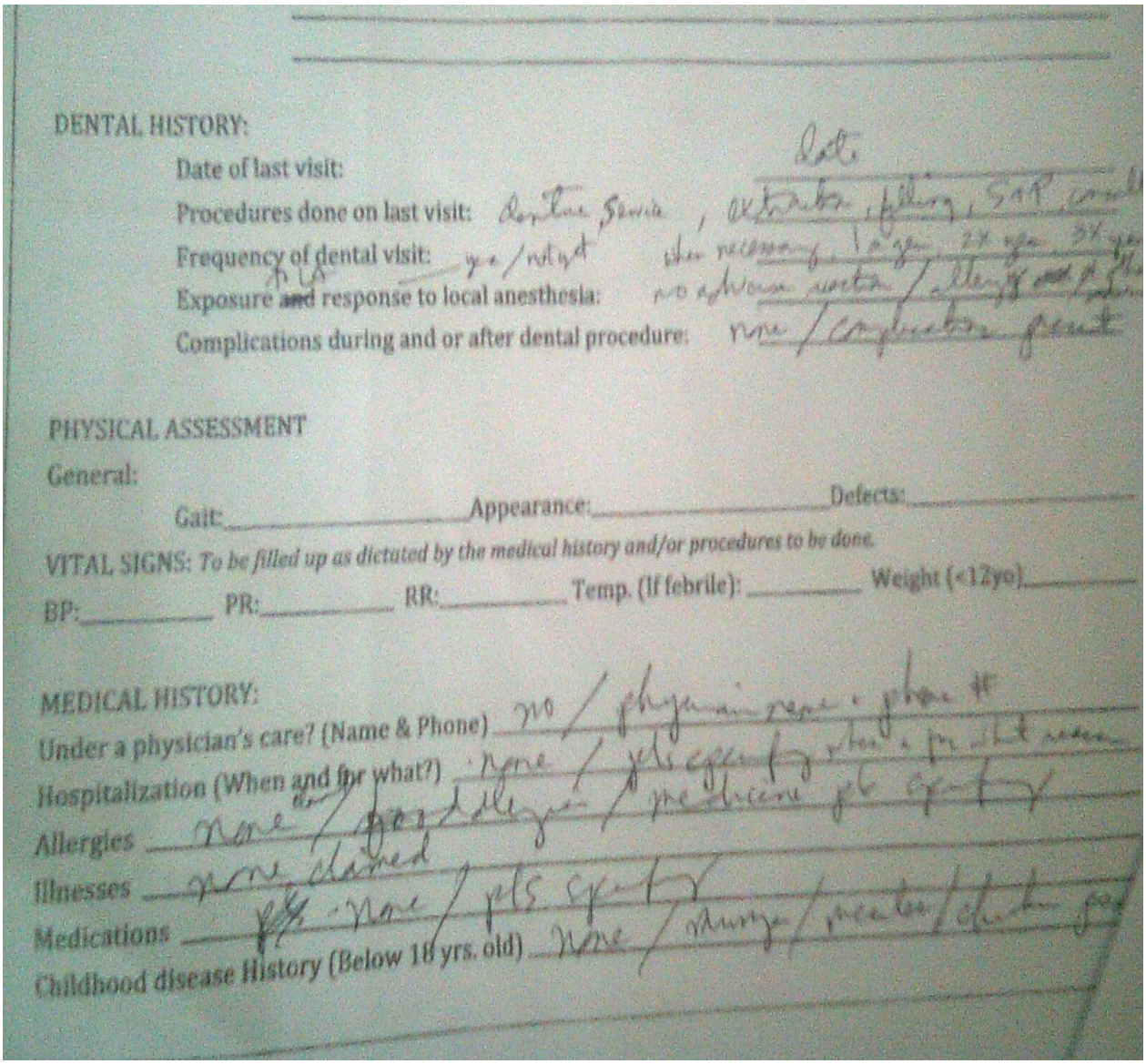
_____

_____

_____

_____

Appendix A UPCD Admitting Section Patient Form with Patient Demographics, Chief Complaint, and History of Present Illness



DENTAL HISTORY:

Date of last visit:

Procedures done on last visit:

Frequency of dental visit:

Exposure and response to local anesthesia:

Complications during and or after dental procedure:

PHYSICAL ASSESSMENT

General:

Gait: Appearance: Defects:

VITAL SIGNS: *To be filled up as dictated by the medical history and/or procedures to be done.*

BP: PR: RR: Temp. (If febrile): Weight (<12yo)

MEDICAL HISTORY:

Under a physician's care? (Name & Phone)

Hospitalization (When and for what?)

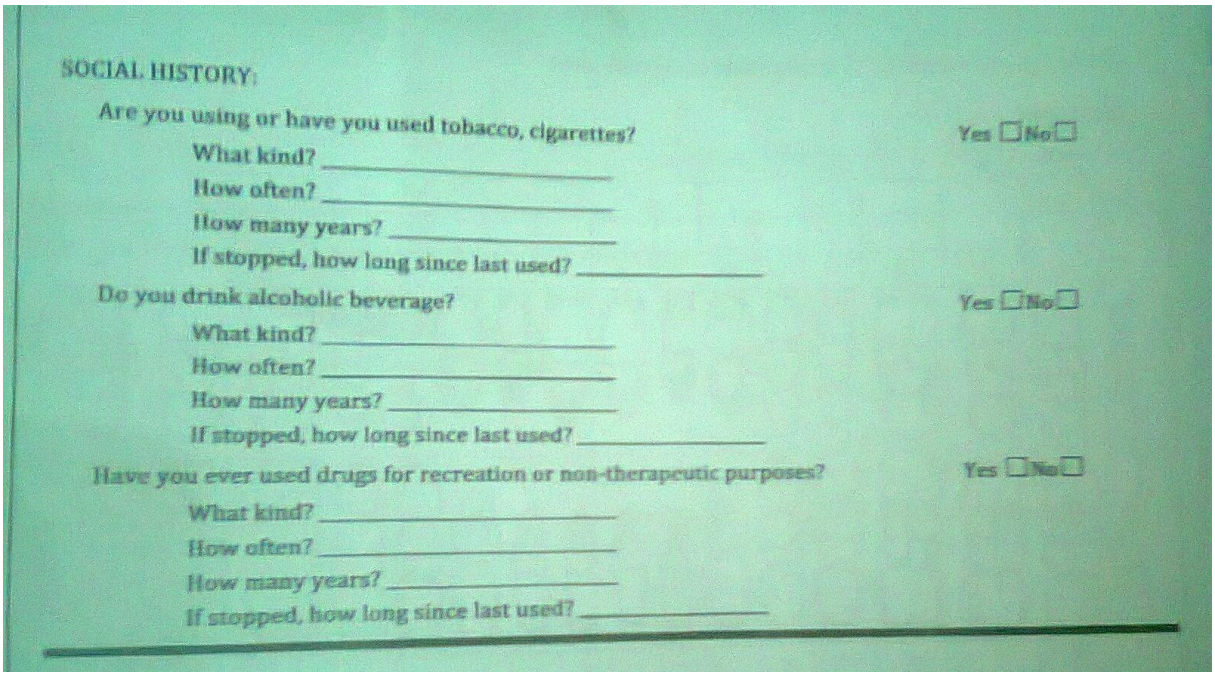
Allergies

Illnesses

Medications

Childhood disease History (Below 18 yrs. old)

Appendix B UPCD Admitting Section Patient Form with Dental History, Physical Assessment, Vital Signs, and Medical History



SOCIAL HISTORY:

Are you using or have you used tobacco, cigarettes? Yes ☐ No ☐

What kind? _____

How often? _____

How many years? _____

If stopped, how long since last used? _____

Do you drink alcoholic beverage? Yes ☐ No ☐

What kind? _____

How often? _____

How many years? _____

If stopped, how long since last used? _____

Have you ever used drugs for recreation or non-therapeutic purposes? Yes ☐ No ☐

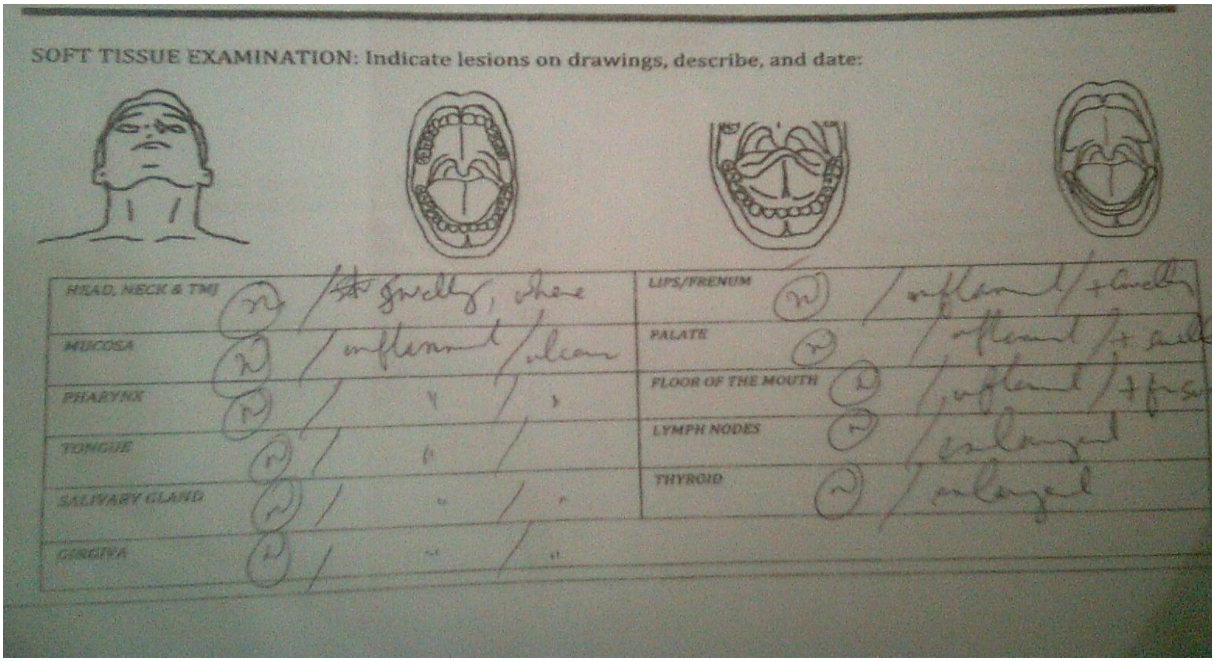
What kind? _____

How often? _____

How many years? _____

If stopped, how long since last used? _____

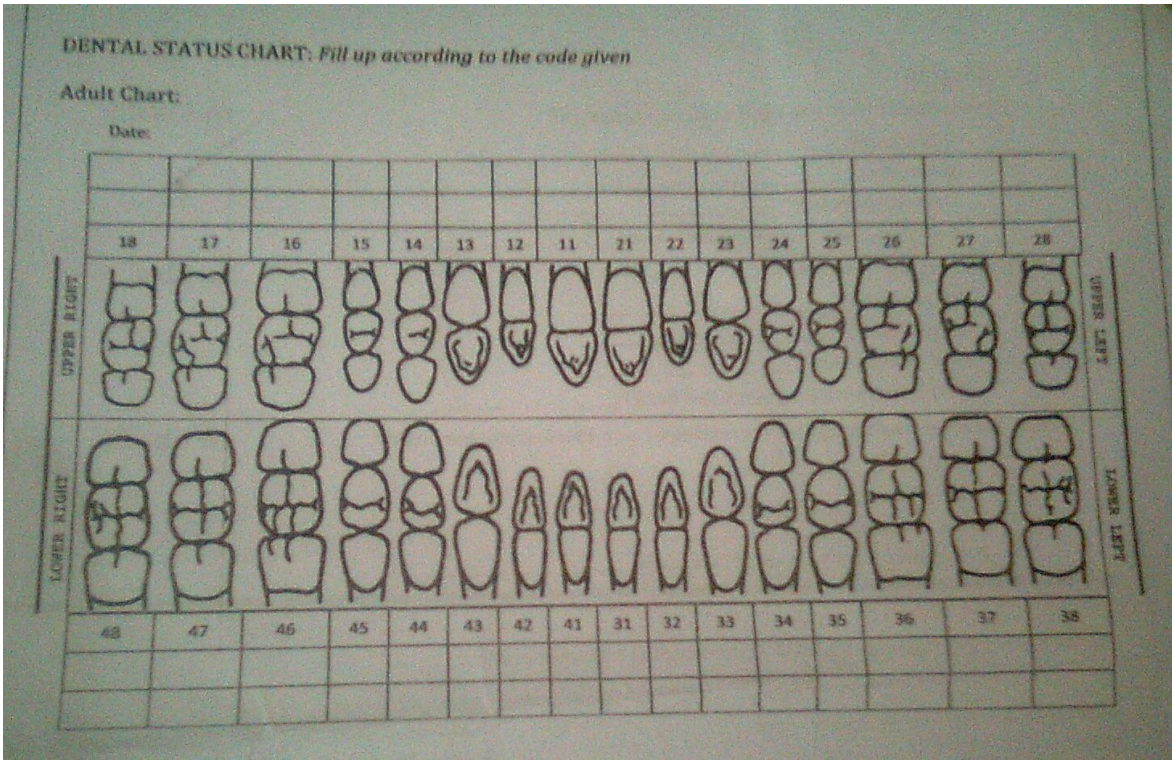
Appendix C UPCD Admitting Section Patient Form with Social History



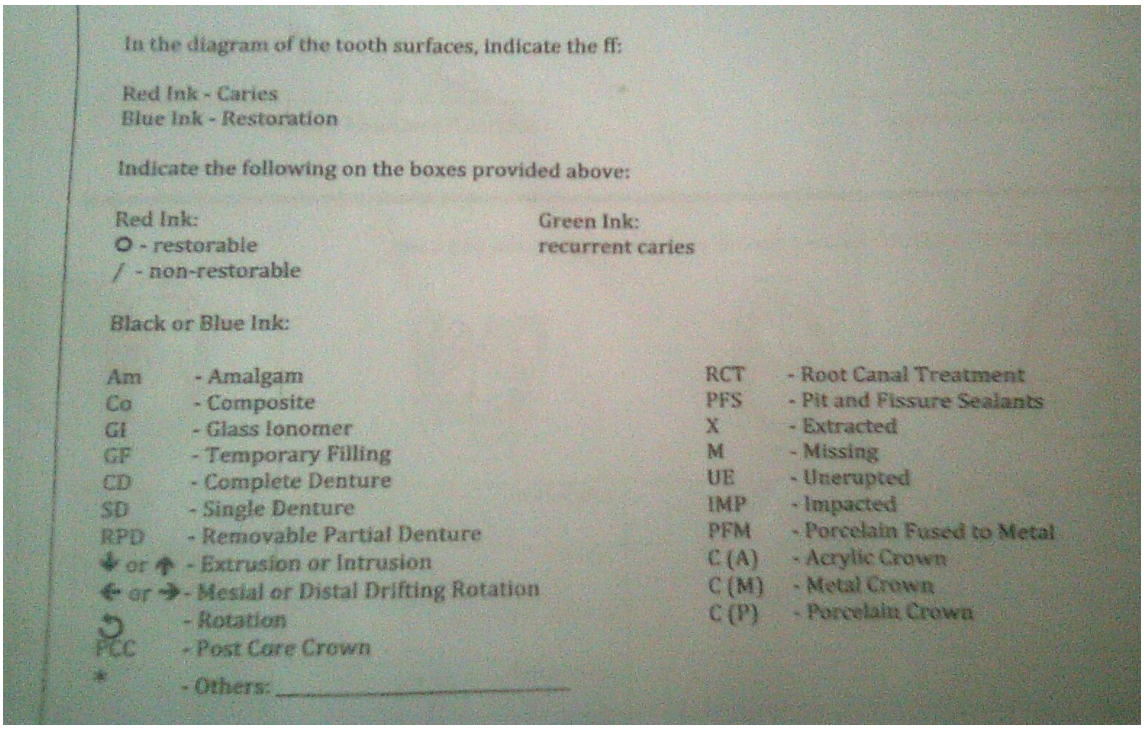
SOFT TISSUE EXAMINATION: Indicate lesions on drawings, describe, and date:

HEAD, NECK & TMJ	N	LIPS/FRENUM	N
MUCOSA	N	PALATE	N
PHARYNX	N	FLOOR OF THE MOUTH	N
TONGUE	N	LYMPH NODES	N
SALIVARY GLAND	N	THYROID	N
GINGIVA	N		

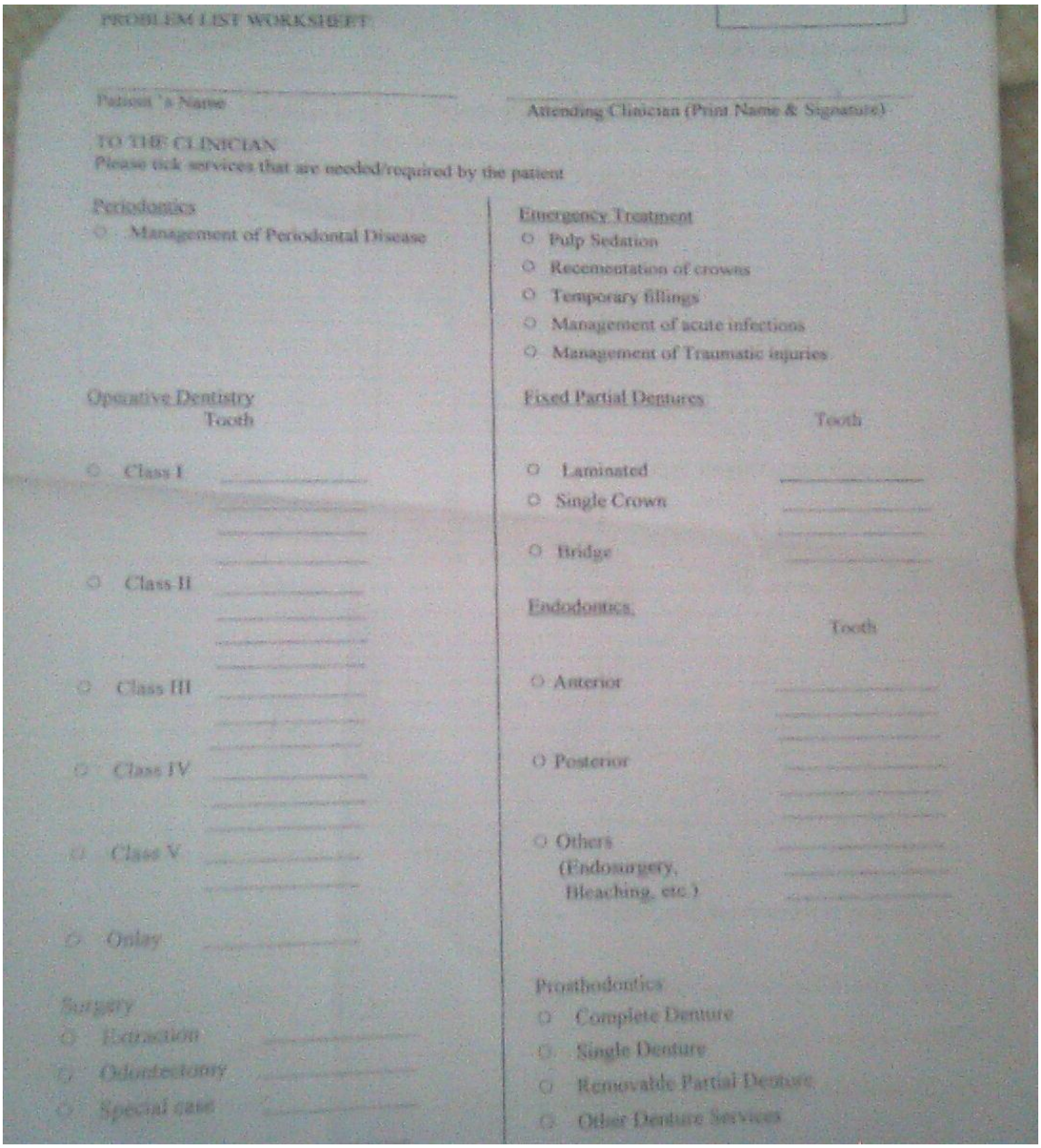
Appendix D UPCD Soft Tissue Examination Form



Appendix E UPCD Dental Status Chart – Teeth Representation



Appendix F UPCD Dental Status Chart Legend



PROBLEM LIST WORKSHEET

Patient 's Name

Attending Clinician (Print Name & Signature)

TO THE CLINICIAN
Please tick services that are needed/required by the patient

Periodontics
- Management of Periodontal Disease

Operative Dentistry
Tooth
- Class I
- Class II
- Class III
- Class IV
- Class V
- Onlay

Surgery
- Extraction
- Odontectomy
- Special case

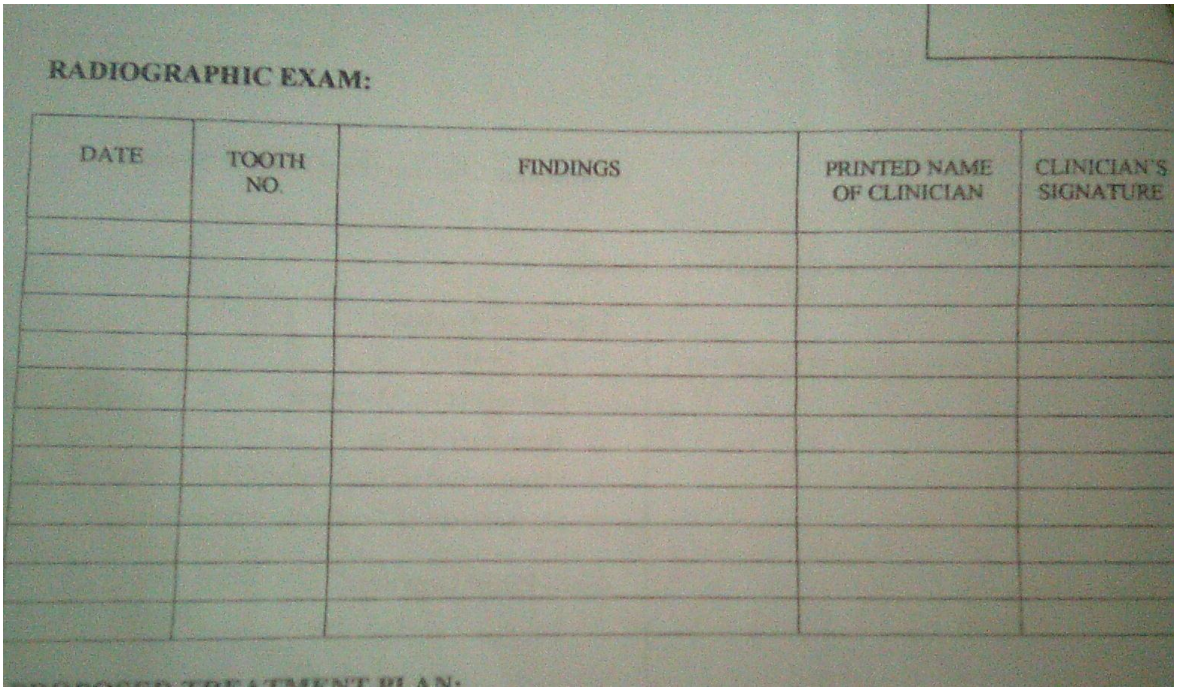
Emergency Treatment
- Pulp Sedation
- Recementation of crowns
- Temporary fillings
- Management of acute infections
- Management of Traumatic injuries

Fixed Partial Dentures
Tooth
- Laminated
- Single Crown
- Bridge

Endodontics
Tooth
- Anterior
- Posterior
- Others (Endosurgery, Bleaching, etc.)

Prosthodontics
- Complete Denture
- Single Denture
- Removable Partial Denture
- Other Denture Services

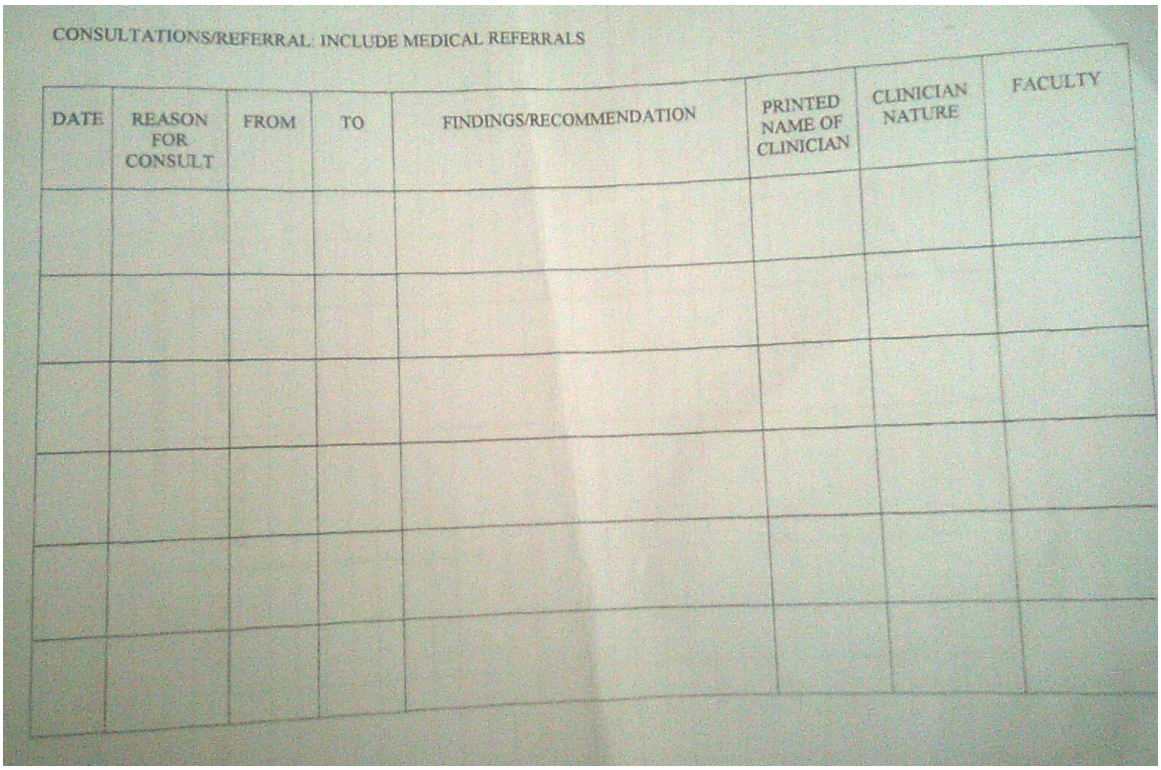
Appendix G UPCD Problem List Worksheet



RADIOGRAPHIC EXAM:

DATE	TOOTH NO.	FINDINGS	PRINTED NAME OF CLINICIAN	CLINICIAN'S SIGNATURE

Appendix H UPCD Radiographic Exam Form



CONSULTATIONS/REFERRAL INCLUDE MEDICAL REFERRALS

DATE	REASON FOR CONSULT	FROM	TO	FINDINGS/RECOMMENDATION	PRINTED NAME OF CLINICIAN	CLINICIAN NATURE	FACULTY

Appendix I UPCD Consultations/Referral Form

canvasdrawing.jsp

```
<%@ include file="/WEB-
INF/template/include.jsp"%>

<%  String id =
request.getParameter("patientId");
                int patientID =
Integer.parseInt(id); %>

Tooth
   <a href =
"javascript:void(0)" onclick =
"click18()">18</a>
      
;   <a href =
"javascript:void(0)" onclick =
"click17()">17</a>
      
;     <a
href = "javascript:void(0)" onclick =
"click16()">16</a>
      
;     <a
href = "javascript:void(0)" onclick =
"click15()">15</a>
      
;    <a href =
"javascript:void(0)" onclick =
"click14()">14</a>
      
;     <a
href = "javascript:void(0)" onclick =
"click13()">13</a>
      
;     <a
href = "javascript:void(0)" onclick =
"click12()">12</a>
      
;    <a href =
"javascript:void(0)" onclick =
"click11()">11</a>
      
;     <a
href = "javascript:void(0)" onclick =
"click21()">21</a>
      
;    <a href =
"javascript:void(0)" onclick =
"click22()">22</a>
      
;    <a href =
"javascript:void(0)" onclick =
"click23()">23</a>
      
;     <a
href = "javascript:void(0)" onclick =
"click24()">24</a>
      
;     <a
href = "javascript:void(0)" onclick =
"click25()">25</a>
      
;     <a
href = "javascript:void(0)" onclick =
"click26()">26</a>
      
;     <a
href = "javascript:void(0)" onclick =
"click27()">27</a>
      
;     <a
href = "javascript:void(0)" onclick =
"click28()">28</a>

<br/>
<section>
<div id="canvasesdiv"
style="position:relative; width:1260px;
height:250px; border: solid 2px
#D9D9D9;">
<canvas id="layer1"style="z-index: 1;
position:absolute; left:0px; top:0px;"
height="250px" width="1260">
This text is displayed if your browser does
not support HTML5 Canvas.
</canvas>
<canvas id="layer2" style="z-index: 2;
position:absolute; left:0px; top:0px;"
height="250px" width="1260">
This text is displayed if your browser does
not support HTML5 Canvas.
</canvas>
<canvas id="layer3" style="z-index: 3;
position:absolute; left:0px; top:0px;"
height="250px" width="1260">
This text is displayed if your browser does
not support HTML5 Canvas.
</canvas>
<canvas id="layer4" style="z-index: 4;
position:absolute; left:0px; top:0px;"
height="250px" width="1260">
This text is displayed if your browser does
not support HTML5 Canvas.
</canvas>

<canvas id="layer5"style="z-index: 5;
position:absolute; left:0px; top:0px;"
height="250px" width="1260">
This text is displayed if your browser does
not support HTML5 Canvas.
</canvas>
<canvas id="layer6" style="z-index: 6;
position:absolute; left:0px; top:0px;"
height="250px" width="1260">
This text is displayed if your browser does
not support HTML5 Canvas.
</canvas>
<canvas id="layer7" style="z-index: 7;
position:absolute; left:0px; top:0px;"
height="250px" width="1260">
This text is displayed if your browser does
not support HTML5 Canvas.
</canvas>
<canvas id="layer8" style="z-index: 8;
position:absolute; left:0px; top:0px;"
height="250px" width="1260">
This text is displayed if your browser does
not support HTML5 Canvas.
</canvas>

<canvas id="layer9"style="z-index: 9;
position:absolute; left:0px; top:0px;"
height="250px" width="1260">
This text is displayed if your browser does
not support HTML5 Canvas.
</canvas>
<canvas id="layer10" style="z-index: 10;
position:absolute; left:0px; top:0px;"
height="250px" width="1260">
This text is displayed if your browser does
not support HTML5 Canvas.
</canvas>
<canvas id="layer11" style="z-index: 11;
position:absolute; left:0px; top:0px;"
height="250px" width="1260">
This text is displayed if your browser does
not support HTML5 Canvas.
</canvas>

<canvas id="layer12" style="z-index: 12;
position:absolute; left:0px; top:0px;"
height="250px" width="1260">
This text is displayed if your browser does
not support HTML5 Canvas.
</canvas>

<canvas id="layer13"style="z-index: 13;
position:absolute; left:0px; top:0px;"
height="250px" width="1260">
This text is displayed if your browser does
not support HTML5 Canvas.
</canvas>
<canvas id="layer14" style="z-index: 14;
position:absolute; left:0px; top:0px;"
height="250px" width="1260">
This text is displayed if your browser does
not support HTML5 Canvas.
</canvas>
<canvas id="layer15" style="z-index: 15;
position:absolute; left:0px; top:0px;"
height="250px" width="1260">
This text is displayed if your browser does
not support HTML5 Canvas.
</canvas>
<canvas id="layer16" style="z-index: 16;
position:absolute; left:0px; top:0px;"
height="250px" width="1260">
This text is displayed if your browser does
not support HTML5 Canvas.
</canvas>

<canvas id="layer17" style="z-index: 17;
position:absolute; left:0px; top:0px;"
height="250px" width="1260">
This text is displayed if your browser does
not support HTML5 Canvas.
</canvas>
<canvas id="layer18" style="z-index: 18;
position:absolute; left:0px; top:0px;"
height="250px" width="1260">
This text is displayed if your browser does
not support HTML5 Canvas.
</canvas>

<canvas id="layer19"style="z-index: 19;
position:absolute; left:0px; top:0px;"
height="250px" width="1260">
This text is displayed if your browser does
not support HTML5 Canvas.
</canvas>
<canvas id="layer20" style="z-index: 20;
position:absolute; left:0px; top:0px;"
height="250px" width="1260">
This text is displayed if your browser does
not support HTML5 Canvas.
</canvas>
<canvas id="layer21" style="z-index: 21;
position:absolute; left:0px; top:0px;"
height="250px" width="1260">
This text is displayed if your browser does
not support HTML5 Canvas.
</canvas>
<canvas id="layer22" style="z-index: 22;
position:absolute; left:0px; top:0px;"
height="250px" width="1260">
This text is displayed if your browser does
not support HTML5 Canvas.
</canvas>

<canvas id="layer23"style="z-index: 23;
position:absolute; left:0px; top:0px;"
height="250px" width="1260">
```

```
This text is displayed if your browser does
not support HTML5 Canvas.
</canvas>
<canvas id="layer24" style="z-index: 24;
position:absolute; left:0px; top:0px;"
height="250px" width="1260">
This text is displayed if your browser does
not support HTML5 Canvas.
</canvas>
<canvas id="layer25" style="z-index: 25;
position:absolute; left:0px; top:0px;"
height="250px" width="1260">
This text is displayed if your browser does
not support HTML5 Canvas.
</canvas>
<canvas id="layer26" style="z-index: 26;
position:absolute; left:0px; top:0px;"
height="250px" width="1260">
This text is displayed if your browser does
not support HTML5 Canvas.
</canvas>

<canvas id="layer27" style="z-index: 27;
position:absolute; left:0px; top:0px;"
height="250px" width="1260">
This text is displayed if your browser does
not support HTML5 Canvas.
</canvas>
<canvas id="layer28" style="z-index: 28;
position:absolute; left:0px; top:0px;"
height="250px" width="1260">
This text is displayed if your browser does
not support HTML5 Canvas.
</canvas>

<canvas id="layer29"style="z-index: 29;
position:absolute; left:0px; top:0px;"
height="250px" width="1260">
This text is displayed if your browser does
not support HTML5 Canvas.
</canvas>
<canvas id="layer30" style="z-index: 30;
position:absolute; left:0px; top:0px;"
height="250px" width="1260">
This text is displayed if your browser does
not support HTML5 Canvas.
</canvas>
<canvas id="layer31" style="z-index: 31;
position:absolute; left:0px; top:0px;"
height="250px" width="1260">
This text is displayed if your browser does
not support HTML5 Canvas.
</canvas>
<canvas id="layer32" style="z-index: 32;
position:absolute; left:0px; top:0px;"
height="250px" width="1260">
This text is displayed if your browser does
not support HTML5 Canvas.
</canvas>

<canvas id="layer33"style="z-index: 33;
position:absolute; left:0px; top:0px;"
height="250px" width="1260">
This text is displayed if your browser does
not support HTML5 Canvas.
</canvas>
<canvas id="layer34" style="z-index: 34;
position:absolute; left:0px; top:0px;"
height="250px" width="1260">
This text is displayed if your browser does
not support HTML5 Canvas.
</canvas>

<canvas id="layer35" style="z-index: 35;
position:absolute; left:0px; top:0px;"
height="250px" width="1260">
This text is displayed if your browser does
not support HTML5 Canvas.
</canvas>
<canvas id="layer36" style="z-index: 36;
position:absolute; left:0px; top:0px;"
height="250px" width="1260">
This text is displayed if your browser does
not support HTML5 Canvas.
</canvas>

<canvas id="layer37" style="z-index: 37;
position:absolute; left:0px; top:0px;"
height="250px" width="1260">
This text is displayed if your browser does
not support HTML5 Canvas.
</canvas>
<canvas id="layer38" style="z-index: 38;
position:absolute; left:0px; top:0px;"
height="250px" width="1260">
This text is displayed if your browser does
not support HTML5 Canvas.
</canvas>

<canvas id="layer39"style="z-index: 39;
position:absolute; left:0px; top:0px;"
height="250px" width="1260">
This text is displayed if your browser does
not support HTML5 Canvas.
</canvas>
<canvas id="layer40" style="z-index: 40;
position:absolute; left:0px; top:0px;"
height="250px" width="1260">
This text is displayed if your browser does
not support HTML5 Canvas.
</canvas>
<canvas id="layer41" style="z-index: 41;
position:absolute; left:0px; top:0px;"
height="250px" width="1260">
This text is displayed if your browser does
not support HTML5 Canvas.
</canvas>
<canvas id="layer42" style="z-index: 42;
position:absolute; left:0px; top:0px;"
height="250px" width="1260">
This text is displayed if your browser does
not support HTML5 Canvas.
</canvas>

<canvas id="layer43"style="z-index: 43;
position:absolute; left:0px; top:0px;"
height="250px" width="1260">
This text is displayed if your browser does
not support HTML5 Canvas.
</canvas>
<canvas id="layer44" style="z-index: 44;
position:absolute; left:0px; top:0px;"
height="250px" width="1260">
This text is displayed if your browser does
not support HTML5 Canvas.
</canvas>
<canvas id="layer45" style="z-index: 45;
position:absolute; left:0px; top:0px;"
height="250px" width="1260">
This text is displayed if your browser does
not support HTML5 Canvas.
</canvas>
<canvas id="layer46" style="z-index: 46;
position:absolute; left:0px; top:0px;"
height="250px" width="1260">
This text is displayed if your browser does
not support HTML5 Canvas.
</canvas>

<canvas id="layer47" style="z-index: 47;
position:absolute; left:0px; top:0px;"
height="250px" width="1260">
This text is displayed if your browser does
not support HTML5 Canvas.
</canvas>
<canvas id="layer48" style="z-index: 48;
position:absolute; left:0px; top:0px;"
height="250px" width="1260">
This text is displayed if your browser does
not support HTML5 Canvas.
</canvas>

<canvas id="layer49"style="z-index: 49;
position:absolute; left:0px; top:0px;"
height="250px" width="1260">
This text is displayed if your browser does
not support HTML5 Canvas.
</canvas>
<canvas id="layer50" style="z-index: 50;
position:absolute; left:0px; top:0px;"
height="250px" width="1260">
This text is displayed if your browser does
not support HTML5 Canvas.
</canvas>
<canvas id="layer51" style="z-index: 51;
position:absolute; left:0px; top:0px;"
height="250px" width="1260">
This text is displayed if your browser does
not support HTML5 Canvas.
</canvas>
<canvas id="layer52" style="z-index: 52;
position:absolute; left:0px; top:0px;"
height="250px" width="1260">
This text is displayed if your browser does
not support HTML5 Canvas.
</canvas>

<canvas id="layer53"style="z-index: 53;
position:absolute; left:0px; top:0px;"
height="250px" width="1260">
This text is displayed if your browser does
not support HTML5 Canvas.
</canvas>
<canvas id="layer54" style="z-index: 54;
position:absolute; left:0px; top:0px;"
height="250px" width="1260">
This text is displayed if your browser does
not support HTML5 Canvas.
</canvas>
<canvas id="layer55" style="z-index: 55;
position:absolute; left:0px; top:0px;"
height="250px" width="1260">
This text is displayed if your browser does
not support HTML5 Canvas.
</canvas>
<canvas id="layer56" style="z-index: 56;
position:absolute; left:0px; top:0px;"
height="250px" width="1260">
This text is displayed if your browser does
not support HTML5 Canvas.
</canvas>



</div>
</section>

Tooth    <a href =
"javascript:void(0)" onclick =
"click48()">48</a>
```

```
           <a href =
"javascript:void(0)" onclick =
"click47()">47</a>
            <a
href = "javascript:void(0)" onclick =
"click46()">46</a>
           <a href =
"javascript:void(0)" onclick =
"click45()">45</a>
           <a href =
"javascript:void(0)" onclick =
"click44()">44</a>
           <a
href = "javascript:void(0)" onclick =
"click43()">43</a>
           <a href =
"javascript:void(0)" onclick =
"click42()">42</a>
           <a href =
"javascript:void(0)" onclick =
"click41()">41</a>
           <a
href = "javascript:void(0)" onclick =
"click31()">31</a>
           <a href =
"javascript:void(0)" onclick =
"click32()">32</a>
           <a
href = "javascript:void(0)" onclick =
"click33()">33</a>
           <a href =
"javascript:void(0)" onclick =
"click34()">34</a>
           <a href =
"javascript:void(0)" onclick =
"click35()">35</a>
           <a href =
"javascript:void(0)" onclick =
"click36()">36</a>
            <a
href = "javascript:void(0)" onclick =
"click37()">37</a>
            <a href =
"javascript:void(0)" onclick =
"click38()">38</a>
<br/><br/>
<font size="2"><a
href="javascript:void(0)"
onclick="services()" class="button"
style="text-decoration:none;
color:#1aac9b;">Other
Services</a></font>
<font size="2"><a
href="javascript:void(0)"
onclick="dentures()" class="button"
style="text-decoration:none;
color:#1aac9b;">Dentures</a></font>
<input type="submit" onclick="return
confirm('The information on this page will
be saved. Proceed to the next page?')"
class="button">
<input type="button" name="clear"
value="Clear Form"
onclick="clearForms();" class="button"/>
<br/><br/> Legend: <br/>
<table>
<tr>
                <td><a style="background-
color: red; text-decoration:
none;">   </a>
Caries<br/>
                <a
style="background-color: #67D413; text-
decoration:
none;">   </a>
Recurrent Caries<br/>
                <a
style="background-color: #E0E0E0; text-
decoration:
none;">   </a>
Amalgam<br/>
                <a
style="background-color: #FFFACD; text-
decoration:
none;">   </a>
Composite<br/>
                <a
style="background-color: pink; text-
decoration:
none;">   </a> Glass
Ionomer<br/>
                <a
style="background-color: yellow; text-
decoration:
none;">   </a>
Temporary Filling<br/>
                <a
style="background-color: #CAFF70; text-
decoration:
none;">   </a> Post
Core Crown<br/>
                <a
style="background-color: orange; text-
decoration:
none;">   </a> Root
Canal Treatment<br/>
            </td>
            <td>
                <a
style="background-color: #DC143C; text-
decoration:
none;">   </a> Pit and
Fissure Sealants<br/>
                <a
style="background-color: #00008B; text-
decoration:
none;">   </a>
Porcelain Fused to Metal<br/>
                <a
style="background-color: #97FFFF; text-
decoration:
none;">   </a> Acrylic
Crown<br/>
                <a
style="background-color: #555555; text-
decoration:
none;">   </a> Metal
Crown<br/>
                <a
style="background-color: #9400D3; text-
decoration:
none;">   </a>
Porcelain Crown<br/>
                <a
style="background-color: #00868B; text-
decoration:
none;">   </a>
Removable Partial Denture<br/>
                <a
style="background-color: #FFA07A; text-
decoration:
none;">   </a> Fixed
Bridge<br/>
                <br/>
            </td>
            <td><a style="background-
color: white; text-decoration: none; color:
black;"> &uarr; </a>
Extrusion<br/>
                <a
style="background-color: white; text-
decoration: none; color:
black;"> &darr; </a>
Intrusion<br/>
                <a
style="background-color: white; text-
decoration: none; color:
black;"> &larr; </a> Mesial
Drifting Rotation<br/>
                <a
style="background-color: white; text-
decoration: none; color:
black;"> &rarr; </a> Distal
Drifting Rotation<br/>
                <a
style="background-color: white; text-
decoration: none; color:
black;"> &#8634; </a>
Rotation<br/>
                <a
style="background-color: white; text-
decoration: none; color:
black;"> X </a>
Extracted<br/>
                <a
style="background-color: white; text-
decoration: none; color:
black;"> M </a>
Missing<br/>
                <a
style="background-color: white; text-
decoration: none; color:
black;"> UE</a> Unerupted<br/>
            </td>
            <td>
                <a
style="background-color: white; text-
decoration: none; color:
black;"> IMP</a> Impacted<br/>
                <a
style="background-color: white; text-
decoration: none; color:
red;"> O </a> restorable<br/>
                <a
style="background-color: white; text-
decoration: none; color:
black;"> / </a> non-
restorable<br/>

            <br/><br/><br/><br/><br/>
            </td>
</tr>
</table>

dentalChart.js
<%@ include file="/WEB-
INF/template/include.jsp"%>
```

```
<%@ include file="/WEB-
INF/template/header.jsp"%>

<%@ include file="headerMenu.jsp" %>

<%  String id =
request.getParameter("patientId");
                int patientID =
Integer.parseInt(id); %>
                <h2><spring:message
code="Oral Diagnosis - Dental Chart"
/></h2>

<form name="toothForm"
action="checkLink.form?patientId=<%
out.print(patientID); %>" method="post">

<jsp:include page="canvasdrawing.jsp"/>
<jsp:include page="firstquadrant.jsp"/>
<jsp:include page="secondquadrant.jsp"/>
<jsp:include page="thirdquadrant.jsp"/>
<jsp:include page="fourthquadrant.jsp"/>

<openmrs:htmlInclude
file="/moduleResources/dental/lightbox.css
" />
<openmrs:htmlInclude
file="/moduleResources/dental/canvaslayer
.js" />
<openmrs:htmlInclude
file="/moduleResources/dental/getxvalue.js
" />
<openmrs:htmlInclude
file="/moduleResources/dental/drawcaries.j
s" />
<openmrs:htmlInclude
file="/moduleResources/dental/drawrecurre
nt.js" />
<openmrs:htmlInclude
file="/moduleResources/dental/drawrestora
tion.js" />
<openmrs:htmlInclude
file="/moduleResources/dental/drawteeth.js
" />
<openmrs:htmlInclude
file="/moduleResources/dental/click.js" />
<openmrs:htmlInclude
file="/moduleResources/dental/drawdivisio
n.js" />
<openmrs:htmlInclude
file="/moduleResources/dental/teeth.png"
/>
<openmrs:htmlInclude
file="/moduleResources/dental/showsurfac
e.js" />
<openmrs:htmlInclude
file="/moduleResources/dental/drawamalga
m.js" />
<openmrs:htmlInclude
file="/moduleResources/dental/drawcompo
site.js" />
<openmrs:htmlInclude
file="/moduleResources/dental/drawglassio
nomer.js" />
<openmrs:htmlInclude
file="/moduleResources/dental/drawtempfil
ling.js" />
<openmrs:htmlInclude
file="/moduleResources/dental/drawcompl
etedenture.js" />
<openmrs:htmlInclude
file="/moduleResources/dental/drawsingled
enture.js" />
<openmrs:htmlInclude
file="/moduleResources/dental/drawcrowns
.js" />
<openmrs:htmlInclude
file="/moduleResources/dental/otherdrawin
gs.js" />
<openmrs:htmlInclude
file="/moduleResources/dental/redraw.js"
/>
<openmrs:htmlInclude
file="/moduleResources/dental/assign.js"
/>

<openmrs:htmlInclude
file="/moduleResources/dental/getformid.js
" />

<br/>

<c:set var="chart"
value="${theDentalChart}"/>
<c:set var="caries"
value="${theCariesStatus}"/>
<c:set var="recurrent"
value="${theRecurrentStatus}"/>
<c:set var="amalgam"
value="${theAmalgamStatus}"/>
<c:set var="composite"
value="${theCompositeStatus}"/>
<c:set var="glass"
value="${theGlassStatus}"/>
<c:set var="filling"
value="${theFillingStatus}"/>
<c:set var="user"
value="${currentUser}"/>
<c:set var="date"
value="${currentDate}"/>
<c:set var="time"
value="${currentTime}"/>
<c:set var="count"
value="${patientcount}"/>
<c:set var="services"
value="${theServicesNeeded}"/>
<!--<c:if
test="${fn:contains(chart.caries,'17') ||
fn:contains(chart.recurrentcaries,'17') ||
fn:contains(chart.amalgam,'17') ||
fn:contains(chart.composite,'17') ||
fn:contains(chart.glassionomer,'17') ||
fn:contains(chart.tempfilling,'17') ||
fn:contains(chart.removablepartial,'17') ||
fn:contains(chart.extrusion,'17') ||
fn:contains(chart.intrusion,'17') ||
fn:contains(chart.mesialdrift,'17') ||
fn:contains(chart.distaldrift,'17') ||
fn:contains(chart.rotation,'17') ||
fn:contains(chart.postcorecrown,'17') ||
fn:contains(chart.rootcanal,'17') ||
fn:contains(chart.pitandfissure,'17') ||
fn:contains(chart.extracted,'17') ||
fn:contains(chart.missing,'17') ||
fn:contains(chart.unerupted,'17') ||
fn:contains(chart.impacted,'17') ||
fn:contains(chart.porcelainfused,'17') ||
fn:contains(chart.acryliccrown,'17') ||
fn:contains(chart.metalcrown,'17') ||
fn:contains(chart.porcelaincrown,'17') ||
fn:contains(chart.fixedbridge,'17') ||
fn:contains(chart.restorable,'17') ||
fn:contains(chart.nonrestorable,'17') }">
<script>var toothnumber = 17;</script>
</c:if>-->
<script type="text/javascript">
<!--
function clearForms() {
if (confirm("Are you sure you want to clear
form?")) {
document.toothForm.reset();
}
}
</script>
<!doctype html>
<html>
<head>
<meta charset="UTF-8" />
<style>
.button {

        background-color: #fff;
        border: 1px solid #1aac9b;
        text-decoration: none;
        color: #1aac9b;
}
</style>
</head>
<body onload="init();">


<input type="hidden" name="patientid"
value=<%out.println(patientID); %>/>
<input type="hidden" name="updatedby"
value="${user}"/>
<input type="hidden" name="dateupdated"
value="${date}"/>
<input type="hidden" name="timeupdated"
value="${time}"/>
<input type="hidden" name="version"
value="${count}"/>


</body>
</html>
</form>
<%@ include file="/WEB-
INF/template/footer.jsp"%>

dentalForms.jsp

<%@ include file="/WEB-
INF/template/include.jsp"%>

<%@ include file="/WEB-
INF/template/header.jsp"%>

<%@ include file="headerMenu.jsp" %>

<openmrs:htmlInclude
file="/moduleResources/dental/jquery.min.j
s" />
<openmrs:htmlInclude
file="/scripts/calendar/calendar.js" />
<openmrs:htmlInclude
file="/moduleResources/dental/showspan.js
" />
<openmrs:htmlInclude
file="/moduleResources/dental/showreferra
ls.js" />

<c:set var="patient"
value="${thePatientList}"/>


<h2><spring:message code="Update
Patient Record" /></h2>

<h3>Patient: ${patient.personName}</h3>

<style type="text/css">
```

```
body {
	background: #fff;
	margin: 0;
	padding: 0;
	color: #000;
}
h1 {font-size: 3em; margin: 20px 0;}
.container {width: 1230px; margin: 5px;}
ul.tabs {
	margin: 0;
	padding: 0;
	float: left;
	list-style: none;
	height: 32px;
	border-bottom: 1px solid #999;
	border-left: 1px solid #999;
	width: 100%;
}
ul.tabs li {
	float: left;
	margin: 0;
	padding: 0;
	height: 31px;
	line-height: 31px;
	border: 1px solid #999;
	border-left: none;
	margin-bottom: -1px;
	background: #1aac9b;
	overflow: hidden;
	position: relative;
	font-size: 12px;
}
ul.tabs li a {
	text-decoration: none;
	color: #fff;
	display: block;
	font-size: 1.2em;
	padding: 0 20px;
	border: 1px solid #fff;
	outline: none;
	font-size: 12px;
}
ul.tabs li a:hover {
	background: #fff;
	font-size: 12px;
	color: #1aac9b;
}

html ul.tabs li.active, html ul.tabs li.active
a:visited{
	background: #fff;
	border-bottom: 1px solid #fff;
	font-size: 12px;
	color: #1aac9b;
}

.tab_container {
	border: 1px solid #999;
	border-top: none;
	clear: both;
	float: left;
	width: 100%;
	background: #fff;
	-moz-border-radius-
bottomright: 5px;
	-khtml-border-radius-
bottomright: 5px;
	-webkit-border-bottom-right-
radius: 5px;
	-moz-border-radius-bottomleft:
5px;
	-khtml-border-radius-
bottomleft: 5px;
	-webkit-border-bottom-left-
radius: 5px;
	font-size: 12px;
}
.tab_content {
	padding: 20px;
	font-size: 1.2em;
}
.tab_content h2 {
	font-weight: normal;
	padding-bottom: 10px;
	border-bottom: 2px dashed
#1aac9b;
	font-size: 1.5em;
}
.tab_content h3 a{
	color: #254588;
}
.tab_content img {
	float: left;
	margin: 0 20px 20px 0;
	border: 1px solid #ddd;
	padding: 5px;
}
.tab {
	color: #fff;
}
.tab:visited {
	color: #000;
}
.button {

	background-color: #fff;
	border: 1px solid #1aac9b;
	text-decoration: none;
	color: #1aac9b;
}
</style>
<script type="text/javascript">

$(document).ready(function() {

	//Default Action
	$(".tab_content").hide(); //Hide
all content
	$("ul.tabs
li:first").addClass("active").show();
//Activate first tab
	$(".tab_content:first").show();
//Show first tab content

	//On Click Event
	$("ul.tabs li").click(function() {
		$("ul.tabs
li").removeClass("active"); //Remove any
"active" class

	$(this).addClass("active");
//Add "active" class to selected tab

	$(".tab_content").hide(); //Hide
all tab content
		var activeTab =
$(this).find("a").attr("href"); //Find the rel
attribute value to identify the active tab +
content

	$(activeTab).fadeIn(); //Fade in
the active content
		return false;
	});

});
</script>
<script type="text/javascript"
src="/moduleResources/dental/jquery.min.j
s"></script>
<script type="text/javascript">
<!--
function clearForms() {
if (confirm("Are you sure you want to clear
form?")) {
document.dentalforms.reset();
}
}

function cleartab1() {
	if (confirm("Clear form in this
tab?")) {

	document.getElementById('occ
upation').reset();
	}
}

function disableCigar() {
	document.dentalforms.cigarkin
d.readOnly=true;
	document.dentalforms.cigarofte
n.readOnly=true;
	document.dentalforms.cigaryea
rs.readOnly=true;
	document.dentalforms.cigarlast
.readOnly=true;

	document.dentalforms.cigarkin
d.style.backgroundColor="#E3E3E3";
	document.dentalforms.cigarofte
n.style.backgroundColor="#E3E3E3";
	document.dentalforms.cigaryea
rs.style.backgroundColor="#E3E3E3";
	document.dentalforms.cigarlast
.style.backgroundColor="#E3E3E3";

	document.dentalforms.cigarkin
d.value = 'n/a';
	document.dentalforms.cigarofte
n.value = 'n/a';
	document.dentalforms.cigaryea
rs.value = 0;
	document.dentalforms.cigarlast
.value = 'n/a'

}

function disableAlcohol() {
	document.dentalforms.alcoholk
ind.readOnly=true;
	document.dentalforms.alcoholo
ften.readOnly=true;
	document.dentalforms.alcoholy
ears.readOnly=true;
	document.dentalforms.alcoholl
ast.readOnly=true;

	document.dentalforms.alcoholk
ind.style.backgroundColor="#E3E3E3";
	document.dentalforms.alcoholo
ften.style.backgroundColor="#E3E3E3";
	document.dentalforms.alcoholy
ears.style.backgroundColor="#E3E3E3";
	document.dentalforms.alcoholl
ast.style.backgroundColor="#E3E3E3";

	document.dentalforms.alcoholk
ind.value = 'n/a';
```

```
		document.dentalforms.alcoholo
ften.value = 'n/a';
		document.dentalforms.alcoholy
ears.value = 0;
		document.dentalforms.alcoholl
ast.value = 'n/a'

}

function disableDrug() {
		document.dentalforms.drugkin
d.readOnly=true;
		document.dentalforms.drugofte
n.readOnly=true;
		document.dentalforms.drugyear
s.readOnly=true;
		document.dentalforms.druglast.
readOnly=true;

		document.dentalforms.drugkin
d.style.backgroundColor="#E3E3E3";
		document.dentalforms.drugofte
n.style.backgroundColor="#E3E3E3";
		document.dentalforms.drugyear
s.style.backgroundColor="#E3E3E3";
		document.dentalforms.druglast.
style.backgroundColor="#E3E3E3";

		document.dentalforms.drugkin
d.value = 'n/a';
		document.dentalforms.drugofte
n.value = 'n/a';
		document.dentalforms.drugyear
s.value = 0;
		document.dentalforms.druglast.
value = 'n/a'
}

function enableCigar() {
		document.dentalforms.cigarkin
d.readOnly=false;
		document.dentalforms.cigarofte
n.readOnly=false;
		document.dentalforms.cigaryea
rs.readOnly=false;
		document.dentalforms.cigarlast
.readOnly=false;

		document.dentalforms.cigarkin
d.value = '';
		document.dentalforms.cigarofte
n.value = '';
		document.dentalforms.cigaryea
rs.value = '';
		document.dentalforms.cigarlast
.value = ''

		document.dentalforms.cigarkin
d.style.backgroundColor="#FFF";
		document.dentalforms.cigarofte
n.style.backgroundColor="#FFF";
		document.dentalforms.cigaryea
rs.style.backgroundColor="#FFF";
		document.dentalforms.cigarlast
.style.backgroundColor="#FFF";
}

function enableAlcohol() {
		document.dentalforms.alcoholk
ind.readOnly=false;
		document.dentalforms.alcoholo
ften.readOnly=false;
		document.dentalforms.alcoholy
ears.readOnly=false;
		document.dentalforms.alcoholl
ast.readOnly=false;

		document.dentalforms.alcoholk
ind.value = '';
		document.dentalforms.alcoholo
ften.value = '';
		document.dentalforms.alcoholy
ears.value = '';
		document.dentalforms.alcoholl
ast.value = ''

		document.dentalforms.alcoholk
ind.style.backgroundColor="#FFF";
		document.dentalforms.alcoholo
ften.style.backgroundColor="#FFF";
		document.dentalforms.alcoholy
ears.style.backgroundColor="#FFF";
		document.dentalforms.alcoholl
ast.style.backgroundColor="#FFF";
}

function enableDrug() {
		document.dentalforms.drugkin
d.readOnly=false;
		document.dentalforms.drugofte
n.readOnly=false;
		document.dentalforms.drugyear
s.readOnly=false;
		document.dentalforms.druglast.
readOnly=false;

		document.dentalforms.drugkin
d.value = '';
		document.dentalforms.drugofte
n.value = '';
		document.dentalforms.drugyear
s.value = '';
		document.dentalforms.druglast.
value = '';

		document.dentalforms.drugkin
d.style.backgroundColor="#FFF";
		document.dentalforms.drugofte
n.style.backgroundColor="#FFF";
		document.dentalforms.drugyear
s.style.backgroundColor="#FFF";
		document.dentalforms.druglast.
style.backgroundColor="#FFF";
}
-->
</script>
</head>

<body>
 <%  String id =
request.getParameter("patientId");
		int patientID =
Integer.parseInt(id); %>
<div class="container">
   <font color="white"></font><ul
class="tabs">
      <b><li><a href="#tab1"
class="tab">Patient
Demographics</a></li>
      <li><a href="#tab2"
class="tab">Dental, Medical, & Social
History</a></li>
      <li><a href="#tab3"
class="tab">Physical Assessment & Vital
Signs</a></li>
			<li><a
href="#tab4"
class="tab">Examinations</a></li>
			<li><a
href="#tab5" class="tab">Patient
Checklist</a></li>
			<li><a
href="#tab6"
class="tab">Consultations/Referrals</a></l
i></b>
			<c:set var="sex"
value="${theSexList}"/>
   </ul> </font>
   <div class="tab_container">
   <form name="dentalforms"
action="dentalChartLink.form?patientId=<
%out.println(patientID); %>"
method="post">
      <c:set var="user"
value="${currentUser}"/>
      <c:set var="date"
value="${currentDate}"/>
			<c:set var="time"
value="${currentTime}"/>
			<c:set var="count"
value="${patientcount}"/>
      <input type="hidden"
name="patientid"
value=<%out.println(patientID); %>/>
      <input type="hidden"
name="updatedby" value="${user}"/>
      <input type="hidden"
name="dateupdated" value="${date}"/>
			<input
type="hidden" name="timeupdated"
value="${time}"/>
			<input
type="hidden" name="version"
value="${count}"/>
      <div id="tab1" class="tab_content">
         <h2>Patient Demographics
         <!-- <font
size="2">    &nb
sp;     &n
bsp;    

      
;     &nbs
p;     &nb
sp;     &n
bsp;     &
nbsp;
         <input type="button"
name="submit" value="clear"
class="button"
onclick="cleartab1()"></font> --></h2>

                                    <table>

		<c:set var="someone"
value="${theAgeList}"/>

		<c:set var="address"
value="${theAddrList}"/>


		<tr>

				<td>Name</td>


		<td>   &nb
sp; ${patient.personName}</td>

		</tr>

		<tr>
```

```
                    <td>Age</td>

            <td>     ${someone}</td>

            </tr>

            <tr>

                    <td>Sex</td>

            <td>     ${sex}</td>

            </tr>

            <tr>

                    <td>Address</td>

            <td>     ${address}</td>

            </tr>

            <c:set var="info"
value="${thePatientInfo}"/>

            <tr>

            <td>Occupation</td>

            <td>     <input type="text"
name="occupation" id="occupation"
size="25" maxlength="30"
value="${info.occupation}"/></td>

            </tr>

            <tr>

                    <td>Educational
Attainment</td>

            <td>     <input type="text"
name="education" size="25"
maxlength="30"
value="${info.education}"/></td>

            </tr>

            <tr>

                    <td>Phone
Number</td>

            <td>     <input type="text"
name="patientphone" size="15"
maxlength="11"
value="${info.patientphone}"/></td>

            </tr>

            <tr>

                    <td>Person to
notify in case of emergency</td>

            <td>     <input type="text"
name="guardian" size="25"
maxlength="30"
value="${info.guardian}"></td>

            </tr>

            <tr>

                    <td>Phone
Number</td>

            <td>     <input type="text"
name="guardianphone" size="15"
maxlength="11"
value="${info.guardianphone}"/></td>

            </tr>

            <tr>

                    <td>Service
Code</td>

            <td>     <input type="checkbox"
name="servicecode" value="Resto" <c:if
test="${fn:contains(info.servicecode,'Resto'
)}">checked="yes"</c:if>/>Resto

                                    <input
type="checkbox" name="servicecode"
value="FPD" <c:if
test="${fn:contains(info.servicecode,'FPD')
}">checked="yes"</c:if>/>FPD

                                    <input
type="checkbox" name="servicecode"
value="PEDO" <c:if
test="${fn:contains(info.servicecode,'PED
O')}">checked="yes"</c:if>/>PEDO <br/>


                &
nbsp;<input type="checkbox"
name="servicecode" value="CD" <c:if
test="${fn:contains(info.servicecode,'CD')}
">checked="yes"</c:if>/>CD  
;  

                                    <input
type="checkbox" name="servicecode"
value="RPD" <c:if
test="${fn:contains(info.servicecode,'RPD')
}">checked="yes"</c:if>/>RPD

                                    <input
type="checkbox" name="servicecode"
value="ENDO" <c:if
test="${fn:contains(info.servicecode,'END
O')}">checked="yes"</c:if>/>ENDO <br/>

                &
nbsp;<input type="checkbox"
name="servicecode" value="PERIO" <c:if
test="${fn:contains(info.servicecode,'PERI
O')}">checked="yes"</c:if>/>PERIO

                                    <input
type="checkbox" name="servicecode"
value="OS" <c:if
test="${fn:contains(info.servicecode,'OS')}
">checked="yes"</c:if>/>OS

                                    <input
type="checkbox" name="servicecode"
value="Ortho" <c:if
test="${fn:contains(info.servicecode,'Ortho
')}">checked="yes"</c:if>/>Ortho

                    </td>

            </tr>

            <tr>

                    <td>Chief
Complaint</td>

            <td>     <textarea
name="chiefcomplaint" rows="3"
cols="40">${info.chiefcomplaint}</textare
a></td>

            </tr>

            <tr>

                    <td>History of
present illness</td>

            <td>     <textarea name="illnesshisto"
rows="3"
cols="40">${info.illnesshisto}</textarea><
/td>

            </tr>

            </table>
        </div>
        <div id="tab2" class="tab_content">
            <h2>Dental History</h2>
            <table>

            <c:set var="dentalhisto"
value="${theDentalHistory}" />

            <tr>

                    <td>Date of last
visit</td>

            <td>     <input type="text" name="dolv"
size="10" onFocus="showCalendar(this)"
value="${dentalhisto.dolv}" /></td>

            </tr>

            <tr>
```

```
                    <td>Procedures
done on last visit</td>

                    <td>   &nb
sp; <input type="text"
name="lvprocedure" size="30"
value="${dentalhisto.lvprocedure}"/></td>
                </tr>
                <tr>
                    <td>Frequency of
dental visit</td>

                    <td>   &nb
sp; <input type="text"
name="dentfrequency" size=15
value="${dentalhisto.dentfrequency}"/></t
d>
                </tr>
                <tr>
                    <td>Exposure and
response to local anesthesia</td>

                    <td>   &nb
sp; <input type="text"
name="dentanesthesia" size="30"
value="${dentalhisto.dentanesthesia}"/></t
d>
                </tr>
                <tr>
                    <td>Complications
during and after dental procedure</td>

                    <td>   &nb
sp; <input type="text"
name="dentcomplications" size="30"
value="${dentalhisto.dentcomplications}"/
></td>
                </tr>
            </table>
                                <br/>
                                <h2>
Medical History</h2>
                                <table>
            <c:set var="medhisto"
value="${theMedicalHistory}"/>
                <tr>
                    <td>Physician
Name</td>

                    <td>   &nb
sp; <input type="text"
name="physicianname" size="25"
value="${medhisto.physicianname}"/></td
>
                </tr>
                <tr>
                    <td>Phone
Number</td>

                    <td>   &nb
sp; <input type="text"
name="physicianphone" size="15"
value="${medhisto.physicianphone}"/></t
d>
                </tr>
                <tr>
                    <td>Date of latest
hospitalization</td>

                    <td>   &nb
sp; <input type="text"
name="hospitaldate" size="10"
value="${medhisto.hospitaldate}"
onClick="showCalendar(this)" /></td>
                </tr>
                <tr>
                    <td>Reason of
hospitalization</td>

                    <td>   &nb
sp; <input type="text"
name="hospitalreason" size="25"
value="${medhisto.hospitalreason}"/></td
>
                </tr>
                <tr>
                    <td>Allergies</td>

                    <td>   &nb
sp; <input type="text"
name="allergies" size="25"
value="${medhisto.allergies}"/></td>
                </tr>
                <tr>
                    <td>Illnesses</td>

                    <td>   &nb
sp; <input type="text"
name="illnesses" size="25"
value="${medhisto.illnesses}"/></td>
                </tr>
                <tr>

                    <td>Medications</td>

                    <td>   &nb
sp; <input type="text"
name="medications" size="25"
value="${medhisto.medications}"/></td>
                </tr>
                <tr>
                    <td>Childhood
disease history</td>

                    <td>   &nb
sp; <textarea name="childhood"
rows="3"
cols="40">${medhisto.childhood}</textare
a></td>
                </tr>
            </table>
                                <br/>
                                <h2>
Social History </h2>
                                <table>
                                <c:set
var="socialhisto"
value="${theSocialHistory}"/>
                <tr>
                    <td>Are you using
or have you used tobacco, cigarettes?</td>

                    <td>   &nb
sp; <input type="radio"
name="cigaruse" value="yes"
onClick="enableCigar();" <c:if
test="${socialhisto.cigaruse ==
'yes'}">checked</c:if>/>Yes

                                <input
type="radio" name="cigaruse" value="no"
onClick="disableCigar();" <c:if
test="${socialhisto.cigaruse ==
'no'}">checked</c:if>/>No</td>
                </tr>
                <tr>

                    <td>   &nb
sp; What kind?</td>

                    <td>   &nb
sp; <input type="text"
name="cigarkind" size="20"
id="cigarkind"
value="${socialhisto.cigarkind}"/></td>
                </tr>
                <tr>

                    <td>   &nb
sp; How often?</td>
```

```
<td>     <input type="text"
name="cigaroften" size="20"
value="${socialhisto.cigaroften}"/></td>

</tr>

<tr>

<td>     How many years?</td>

<td>     <input type="text"
name="cigaryears" size="5"
value="${socialhisto.cigaryears}"/></td>

</tr>

<tr>

<td>     If stopped, how long since last
used?</td>

<td>     <input type="text"
name="cigarlast" size="20"
value="${socialhisto.cigarlast}"/></td>

</tr>

<tr>

<td>Do
you drink alcoholic beverage?</td>

<td>     <input type="radio"
name="alcoholuse" value="yes"
onClick="enableAlcohol();" <c:if
test="${socialhisto.alcoholuse ==
'yes'}">checked</c:if>/>Yes

<input type="radio"
name="alcoholuse" value="no"
onClick="disableAlcohol();"<c:if
test="${socialhisto.alcoholuse ==
'no'}">checked</c:if>/>No</td>

</tr>

<tr>

<td>     What kind?</td>

<td>     <input type="text"
name="alcoholkind" size="20"
value="${socialhisto.alcoholkind}"/></td>

</tr>

<tr>

<td>     How often?</td>

<td>     <input type="text"
name="alcoholoften" size="20"
value="${socialhisto.alcoholoften}"/></td>

</tr>

<tr>

<td>     How many years?</td>

<td>     <input type="text"
name="alcoholyears" size="5"
value="${socialhisto.alcoholyears}"/></td
>

</tr>

<tr>

<td>     If stopped, how long since last
used?</td>

<td>     <input type="text"
name="alcohollast" size="20"
value="${socialhisto.alcohollast}"/></td>

</tr>

<tr>

<td>Have you ever used drugs
for recreation or non-therapeutic
purposes?</td>

<td>     <input type="radio"
name="druguse" value="yes"
onClick="enableDrug();" <c:if
test="${socialhisto.druguse ==
'yes'}">checked</c:if>/>Yes

<input type="radio"
name="druguse" value="no"
onClick="disableDrug();" <c:if
test="${socialhisto.druguse ==
'no'}">checked</c:if>/>No</td>

</tr>

<tr>

<td>     What kind?</td>

<td>     <input type="text"
name="drugkind" size="20"
value="${socialhisto.drugkind}"/></td>

</tr>

<tr>

<td>     How often?</td>

<td>     <input type="text"
name="drugoften" size="20"
value="${socialhisto.drugoften}"/></td>

</tr>

<tr>

<td>     How many years?</td>

<td>     <input type="text"
name="drugyears" size="5"
value="${socialhisto.drugyears}"/></td>

</tr>

<tr>

<td>     If stopped, how long since last
used?</td>

<td>     <input type="text"
name="druglast" size="20"
value="${socialhisto.druglast}"/></td>

</tr>

</table>
</div>
<div id="tab3"
class="tab_content">
<h2>Physical Assessment</h2>
<table>

<c:set var="assessment"
value="${thePhysicalAssessment}"/>

<tr>

<td>Gait</td>

<td>     <input type="text" name="gait"
size="25"
value="${assessment.gait}"/></td>

</tr>
```

```
<tr>

<td>Appearance</td>

<td>     <input type="text"
name="appearance" size="25"
value="${assessment.appearance}"/></td>

</tr>

<tr>

<td>Defects</td>

<td>     <input type="text"
name="defects" size="25"
value="${assessment.defects}"/></td>

</tr>

</table>
</br>

<h2>Vital Signs</h2>
<table>
<c:set
var="vital" value="${theVitalSigns}"/>

<tr>

<td>Blood Pressure
(BP)</td>

<td>     <input type="text"
name="bloodpressure" size="10"
value="${vital.bloodpressure}"/></td>

</tr>

<tr>

<td>Pulse Rate
(PR)</td>

<td>     <input type="text"
name="pulserate" size="10"
value="${vital.pulserate}"/></td>

</tr>

<tr>

<td>Respiration
Rate (RR)</td>

<td>     <input type="text"
name="respirationrate" size="10"
value="${vital.respirationrate}"/></td>

</tr>

<tr>

<td>Temperature
(If febrile)</td>

<td>     <input type="text"
name="temperature" size="10"
value="${vital.temperature}"/></td>

</tr>

<tr>

<td>Weight (&lt;
12yo)</td>

<td>     <input type="text"
name="weight" size="10"
value="${vital.weight}"/></td>

</tr>

</table>
</div>
<div id="tab4" class="tab_content">
<h2>Soft Tissue Examination</h2>
<table>

<c:set var="tissue"
value="${theSoftTissue}"/>

<tr>

<td>Head, Neck &
TMJ</td>

<td><textarea
name="headnecktmj" rows="3"
cols="40">${tissue.headnecktmj}</textare
a></td>

<td>Lips/Frenum</td>

<td><textarea
name="lips" rows="3"
cols="40">${tissue.lips}</textarea></td>

</tr>

<tr>

<td>Mucosa</td>

<td><textarea
name="mucosa" rows="3"
cols="40">${tissue.mucosa}</textarea></t
d>

<td>Palate</td>

<td><textarea
name="palate" rows="3"
cols="40">${tissue.palate}</textarea></td
>

</tr>

<tr>

<td>Pharynx</td>

<td><textarea
name="pharynx" rows="3"
cols="40">${tissue.pharynx}</textarea></t
d>

<td>Floor of the
Mouth</td>

<td><textarea
name="mouthfloor" rows="3"
cols="40">${tissue.mouthfloor}</textarea
></td>

</tr>

<tr>

<td>Tongue</td>

<td><textarea
name="tongue" rows="3"
cols="40">${tissue.tongue}</textarea></td
>

<td>Lymph
Nodes</td>

<td><textarea
name="lymphnodes" rows="3"
cols="40">${tissue.lymphnodes}</textarea
></td>

</tr>

<tr>

<td>Salivary
Gland</td>

<td><textarea
name="salivarygland" rows="3"
cols="40">${tissue.salivarygland}</textare
a></td>

<td>Thyroid</td>

<td><textarea
name="thyroid" rows="3"
cols="40">${tissue.thyroid}</textarea></t
d>

</tr>

<tr>

<td>Gingiva</td>

<td><textarea
name="gingiva" rows="3"
cols="40">${tissue.gingiva}</textarea></t
d>

</tr>

</table><br/>

<h2>Radiographic Exam</h2>
<input
type="hidden"
name="radiographicversion"
value="${radiographicversion}"/>
```

```
                                        <table>
                                        <c:set
var="radiographic"
value="${radiographicexam}"/>

                <tr>

                                <td>Date</td>

                                <td><input
type="text" name="radiographicdate"
value="${radiographic.radiographicdate}">
</td>

                </tr>

                <tr>


                <td>Toothnumber</td>

                                <td><input
type="checkbox" name="toothnumber"
value="11" <c:if
test="${fn:contains(radiographic.toothnum
ber,'11')}">checked="yes"</c:if>/>11

                                        <input
type="checkbox" name="toothnumber"
value="12" <c:if
test="${fn:contains(radiographic.toothnum
ber,'12')}">checked="yes"</c:if>/>12

                                        <input
type="checkbox" name="toothnumber"
value="13" <c:if
test="${fn:contains(radiographic.toothnum
ber,'13')}">checked="yes"</c:if>/>13

                                        <input
type="checkbox" name="toothnumber"
value="14" <c:if
test="${fn:contains(radiographic.toothnum
ber,'14')}">checked="yes"</c:if>/>14

                                        <input
type="checkbox" name="toothnumber"
value="15" <c:if
test="${fn:contains(radiographic.toothnum
ber,'15')}">checked="yes"</c:if>/>15

                                        <input
type="checkbox" name="toothnumber"
value="16" <c:if
test="${fn:contains(radiographic.toothnum
ber,'16')}">checked="yes"</c:if>/>16

                                        <input
type="checkbox" name="toothnumber"
value="17" <c:if
test="${fn:contains(radiographic.toothnum
ber,'17')}">checked="yes"</c:if>/>17

                                        <input
type="checkbox" name="toothnumber"
value="18" <c:if
test="${fn:contains(radiographic.toothnum
ber,'18')}">checked="yes"</c:if>/>18

                                <br/>

                                        <input
type="checkbox" name="toothnumber"
value="21" <c:if
test="${fn:contains(radiographic.toothnum
ber,'21')}">checked="yes"</c:if>/>21


                                        <input
type="checkbox" name="toothnumber"
value="22" <c:if
test="${fn:contains(radiographic.toothnum
ber,'22')}">checked="yes"</c:if>/>22

                                        <input
type="checkbox" name="toothnumber"
value="23" <c:if
test="${fn:contains(radiographic.toothnum
ber,'23')}">checked="yes"</c:if>/>23

                                        <input
type="checkbox" name="toothnumber"
value="24" <c:if
test="${fn:contains(radiographic.toothnum
ber,'24')}">checked="yes"</c:if>/>24

                                        <input
type="checkbox" name="toothnumber"
value="25" <c:if
test="${fn:contains(radiographic.toothnum
ber,'25')}">checked="yes"</c:if>/>25

                                        <input
type="checkbox" name="toothnumber"
value="26" <c:if
test="${fn:contains(radiographic.toothnum
ber,'26')}">checked="yes"</c:if>/>26

                                        <input
type="checkbox" name="toothnumber"
value="27" <c:if
test="${fn:contains(radiographic.toothnum
ber,'27')}">checked="yes"</c:if>/>27

                                        <input
type="checkbox" name="toothnumber"
value="28" <c:if
test="${fn:contains(radiographic.toothnum
ber,'28')}">checked="yes"</c:if>/>28

                                <br/>

                                        <input
type="checkbox" name="toothnumber"
value="31" <c:if
test="${fn:contains(radiographic.toothnum
ber,'31')}">checked="yes"</c:if>/>31

                                        <input
type="checkbox" name="toothnumber"
value="32" <c:if
test="${fn:contains(radiographic.toothnum
ber,'32')}">checked="yes"</c:if>/>32

                                        <input
type="checkbox" name="toothnumber"
value="33" <c:if
test="${fn:contains(radiographic.toothnum
ber,'33')}">checked="yes"</c:if>/>33

                                        <input
type="checkbox" name="toothnumber"
value="34" <c:if
test="${fn:contains(radiographic.toothnum
ber,'34')}">checked="yes"</c:if>/>34

                                        <input
type="checkbox" name="toothnumber"
value="35" <c:if
test="${fn:contains(radiographic.toothnum
ber,'35')}">checked="yes"</c:if>/>35

                                        <input
type="checkbox" name="toothnumber"
value="36" <c:if
test="${fn:contains(radiographic.toothnum
ber,'36')}">checked="yes"</c:if>/>36

                                        <input
type="checkbox" name="toothnumber"
value="37" <c:if
test="${fn:contains(radiographic.toothnum
ber,'37')}">checked="yes"</c:if>/>37

                                        <input
type="checkbox" name="toothnumber"
value="38" <c:if
test="${fn:contains(radiographic.toothnum
ber,'38')}">checked="yes"</c:if>/>38

                                <br/>

                                        <input
type="checkbox" name="toothnumber"
value="41" <c:if
test="${fn:contains(radiographic.toothnum
ber,'41')}">checked="yes"</c:if>/>41

                                        <input
type="checkbox" name="toothnumber"
value="42" <c:if
test="${fn:contains(radiographic.toothnum
ber,'42')}">checked="yes"</c:if>/>42

                                        <input
type="checkbox" name="toothnumber"
value="43" <c:if
test="${fn:contains(radiographic.toothnum
ber,'43')}">checked="yes"</c:if>/>43

                                        <input
type="checkbox" name="toothnumber"
value="44" <c:if
test="${fn:contains(radiographic.toothnum
ber,'44')}">checked="yes"</c:if>/>44

                                        <input
type="checkbox" name="toothnumber"
value="45" <c:if
test="${fn:contains(radiographic.toothnum
ber,'45')}">checked="yes"</c:if>/>45

                                        <input
type="checkbox" name="toothnumber"
value="46" <c:if
test="${fn:contains(radiographic.toothnum
ber,'46')}">checked="yes"</c:if>/>46

                                        <input
type="checkbox" name="toothnumber"
value="47" <c:if
test="${fn:contains(radiographic.toothnum
ber,'47')}">checked="yes"</c:if>/>47

                                        <input
type="checkbox" name="toothnumber"
value="48" <c:if
test="${fn:contains(radiographic.toothnum
ber,'48')}">checked="yes"</c:if>/>48
</td>

                </tr>
```

```
<tr>

<td>Findings</td>

<td><textarea
name="radiographicfindings" rows="3"
cols="40">${radiographic.radiographicfind
ings}</textarea></td>

</tr>



</table>
</div>
<div id="tab5"
class="tab_content">
<c:set
var="checklist"
value="${patientchecklist}"/>
<h2>Do you have or have you had
any of the following?</h2>
<table>

<!--<c:set var="assessment"
value="${thePhysicalAssessment}"/>-->

<tr>

<td>YES</td>

<td>NO</td>

<td></td>

<td>YES</td>

<td>NO</td>

</tr>

<tr>

<td><input
type="radio" name="highblood"
value="yes" <c:if
test="${checklist.highblood ==
'yes'}">checked="yes"</c:if>/></td>

<td><input
type="radio" name="highblood"
value="no" <c:if
test="${checklist.highblood ==
'no'}">checked="yes"</c:if>/></td>

<td>High blood
pressure</td>

<td><input
type="radio" name="jointpain"
value="yes" <c:if
test="${checklist.jointpain ==
'yes'}">checked="yes"</c:if>/></td>

<td><input
type="radio" name="jointpain" value="no"
<c:if test="${checklist.jointpain ==
'no'}">checked="yes"</c:if>/></td>

<td>Pain in
joints</td>

</tr>

<tr>

<td><input
type="radio" name="heartattack"
value="yes" <c:if
test="${checklist.heartattack ==
'yes'}">checked="yes"</c:if>/></td>

<td><input
type="radio" name="heartattack"
value="no" <c:if
test="${checklist.heartattack ==
'no'}">checked="yes"</c:if>/></td>

<td>Heart
attack</td>

<td><input
type="radio" name="tremors" value="yes"
<c:if test="${checklist.tremors ==
'yes'}">checked="yes"</c:if>/></td>

<td><input
type="radio" name="tremors" value="no"
<c:if test="${checklist.tremors ==
'no'}">checked="yes"</c:if>/></td>

<td>Tremors</td>

</tr>

<tr>

<td><input
type="radio" name="anginapectoris"
value="yes" <c:if
test="${checklist.anginapectoris ==
'yes'}">checked="yes"</c:if>/></td>

<td><input
type="radio" name="anginapectoris"
value="no" <c:if
test="${checklist.anginapectoris ==
'no'}">checked="yes"</c:if>/></td>

<td>Angina
Pectoris, chest pain</td>

<td><input
type="radio" name="bloodtransfusion"
value="yes" <c:if
test="${checklist.bloodtransfusion ==
'yes'}">checked="yes"</c:if>/></td>

<td><input
type="radio" name="bloodtransfusion"
value="no" <c:if
test="${checklist.bloodtransfusion ==
'no'}">checked="yes"</c:if>/></td>

<td>Blood
transfusion</td>

</tr>

<tr>

<td><input
type="radio" name="swollenankles"
value="yes"  <c:if
test="${checklist.swollenankles ==
'yes'}">checked="yes"</c:if>/></td>

<td><input
type="radio" name="swollenankles"
value="no"  <c:if
test="${checklist.swollenankles ==
'no'}">checked="yes"</c:if>/></td>

<td>Swollen
ankles</td>

<td><input
type="radio" name="deniedblood"
value="yes" <c:if
test="${checklist.deniedblood ==
'yes'}">checked="yes"</c:if>/></td>

<td><input
type="radio" name="deniedblood"
value="no" <c:if
test="${checklist.deniedblood ==
'no'}">checked="yes"</c:if>/></td>

<td>Denied
permission to give blood</td>

</tr>

<tr>

<td><input
type="radio" name="frequentfever"
value="yes" <c:if
test="${checklist.frequentfever ==
'yes'}">checked="yes"</c:if>/></td>

<td><input
type="radio" name="frequentfever"
value="no" <c:if
test="${checklist.frequentfever ==
'no'}">checked="yes"</c:if>/></td>

<td>Frequent high
fever</td>

<td><input
type="radio" name="pallor" value="yes"
<c:if test="${checklist.pallor ==
'yes'}">checked="yes"</c:if>/></td>

<td><input
type="radio" name="pallor" value="no"
<c:if test="${checklist.pallor ==
'no'}">checked="yes"</c:if>></td>

<td>Pallor</td>

</tr>

<tr>

<td><input
type="radio" name="pacemakers"
value="yes" <c:if
test="${checklist.pacemakers ==
'yes'}">checked="yes"</c:if>></td>

<td><input
type="radio" name="pacemakers"
value="no" <c:if
test="${checklist.pacemakers ==
'no'}">checked="yes"</c:if>></td>

<td>Pacemakers,
artificial heart valves</td>
```

```
                    <td><input
type="radio" name="diabetes" value="yes"
<c:if test="${checklist.diabetes ==
'yes'}">checked="yes"</c:if>></td>

                    <td><input
type="radio" name="diabetes" value="no"
<c:if test="${checklist.diabetes ==
'no'}">checked="yes"</c:if>></td>

                    <td>Diabetes</td>

                </tr>

                <tr>

                    <td><input
type="radio" name="emphysema"
value="yes" <c:if
test="${checklist.emphysema ==
'yes'}">checked="yes"</c:if>></td>

                    <td><input
type="radio" name="emphysema"
value="no" <c:if
test="${checklist.emphysema ==
'no'}">checked="yes"</c:if>></td>


                <td>Emphysema</td>

                    <td><input
type="radio" name="goiter" value="yes"
<c:if test="${checklist.goiter ==
'yes'}">checked="yes"</c:if>></td>

                    <td><input
type="radio" name="goiter" value="no"
<c:if test="${checklist.goiter ==
'no'}">checked="yes"</c:if>></td>

                    <td>Goiter</td>

                </tr>

                <tr>

                    <td><input
type="radio" name="afternoonfever"
value="yes" <c:if
test="${checklist.afternoonfever ==
'yes'}">checked="yes"</c:if>></td>

                    <td><input
type="radio" name="afternoonfever"
value="no" <c:if
test="${checklist.afternoonfever ==
'no'}">checked="yes"</c:if>></td>

                    <td>Afternoon
fever</td>

                    <td><input
type="radio" name="bleedingbruising"
value="yes" <c:if
test="${checklist.bleedingbruising ==
'yes'}">checked="yes"</c:if>></td>

                    <td><input
type="radio" name="bleedingbruising"
value="no" <c:if
test="${checklist.bleedingbruising ==
'no'}">checked="yes"</c:if>></td>

                    <td>Bleeding or
bruising tendency</td>

                </tr>

                <tr>

                    <td><input
type="radio" name="chroniccough"
value="yes" <c:if
test="${checklist.chroniccough ==
'yes'}">checked="yes"</c:if>></td>

                    <td><input
type="radio" name="chroniccough"
value="no" <c:if
test="${checklist.chroniccough ==
'no'}">checked="yes"</c:if>></td>

                    <td>Chronic
cough</td>

                    <td><input
type="radio" name="weightlossgain"
value="yes" <c:if
test="${checklist.weightlossgain ==
'yes'}">checked="yes"</c:if>></td>

                    <td><input
type="radio" name="weightlossgain"
value="no" <c:if
test="${checklist.weightlossgain ==
'no'}">checked="yes"</c:if>></td>

                    <td>Sudden weight
loss or gain</td>

                </tr>

                <tr>

                    <td><input
type="radio" name="breathingprob"
value="yes" <c:if
test="${checklist.breathingprob ==
'yes'}">checked="yes"</c:if>></td>

                    <td><input
type="radio" name="breathingprob"
value="no" <c:if
test="${checklist.breathingprob ==
'no'}">checked="yes"</c:if>></td>

                    <td>Breathing
problems</td>

                    <td><input
type="radio" name="frequentthirst"
value="yes" <c:if
test="${checklist.frequentthirst ==
'yes'}">checked="yes"</c:if>></td>

                    <td><input
type="radio" name="frequentthirst"
value="no" <c:if
test="${checklist.frequentthirst ==
'no'}">checked="yes"</c:if>></td>

                    <td>Frequent
thirst</td>

                </tr>

                <tr>

                    <td><input
type="radio" name="bloodysputum"
value="yes" <c:if
test="${checklist.bloodysputum ==
'yes'}">checked="yes"</c:if>></td>

                    <td><input
type="radio" name="bloodysputum"
value="no" <c:if
test="${checklist.bloodysputum ==
'no'}">checked="yes"</c:if>></td>

                    <td>Bloody
sputum</td>

                    <td><input
type="radio" name="frequenthunger"
value="yes" <c:if
test="${checklist.frequenthunger ==
'yes'}">checked="yes"</c:if>></td>

                    <td><input
type="radio" name="frequenthunger"
value="no" <c:if
test="${checklist.frequenthunger ==
'no'}">checked="yes"</c:if>></td>

                    <td>Frequent
hunger</td>

                </tr>

                <tr>

                    <td><input
type="radio" name="sinusitis" value="yes"
<c:if test="${checklist.sinusitis ==
'yes'}">checked="yes"</c:if>></td>

                    <td><input
type="radio" name="sinusitis" value="no"
<c:if test="${checklist.sinusitis ==
'no'}">checked="yes"</c:if>></td>

                    <td>Sinusitis</td>

                    <td><input
type="radio" name="frequenturination"
value="yes" <c:if
test="${checklist.frequenturination ==
'yes'}">checked="yes"</c:if>></td>

                    <td><input
type="radio" name="frequenturination"
value="no" <c:if
test="${checklist.frequenturination ==
'no'}">checked="yes"</c:if>></td>

                    <td>Frequent
urination</td>

                </tr>

                <tr>

                    <td><input
type="radio" name="frequentheadaches"
value="yes" <c:if
test="${checklist.frequentheadaches ==
'yes'}">checked="yes"</c:if>></td>
```

```
                    <td><input
type="radio" name="frequentheadaches"
value="no" <c:if
test="${checklist.frequentheadaches ==
'no'}">checked="yes"</c:if>></td>

                    <td>Frequent
headaches</td>

                    <td><input
type="radio" name="chemotherapy"
value="yes" <c:if
test="${checklist.chemotherapy ==
'yes'}">checked="yes"</c:if>></td>

                    <td><input
type="radio" name="chemotherapy"
value="no" <c:if
test="${checklist.chemotherapy ==
'no'}">checked="yes"</c:if>></td>


                <td>Chemotherapy</td>

                </tr>

                <tr>

                    <td><input
type="radio" name="dizziness"
value="yes" <c:if
test="${checklist.dizziness ==
'yes'}">checked="yes"</c:if>></td>

                    <td><input
type="radio" name="dizziness" value="no"
<c:if test="${checklist.dizziness ==
'no'}">checked="yes"</c:if>></td>

                    <td>Dizziness</td>

                    <td><input
type="radio" name="urinationpain"
value="yes" <c:if
test="${checklist.urinationpain ==
'yes'}">checked="yes"</c:if>></td>

                    <td><input
type="radio" name="urinationpain"
value="no" <c:if
test="${checklist.urinationpain ==
'no'}">checked="yes"</c:if>></td>

                    <td>Pain upon
urination</td>

                </tr>

                <tr>

                    <td><input
type="radio" name="faintingspells"
value="yes" <c:if
test="${checklist.faintingspells ==
'yes'}">checked="yes"</c:if>></td>

                    <td><input
type="radio" name="faintingspells"
value="no" <c:if
test="${checklist.faintingspells ==
'no'}">checked="yes"</c:if>></td>

                    <td>Fainting spells
or loss of consciousness</td>

                    <td><input
type="radio" name="urinebloodpus"
value="yes" <c:if
test="${checklist.urinebloodpus ==
'yes'}">checked="yes"</c:if>></td>

                    <td><input
type="radio" name="urinebloodpus"
value="no" <c:if
test="${checklist.urinebloodpus ==
'no'}">checked="yes"</c:if>></td>

                    <td>Blood/pus in
urine</td>

                </tr>

                <tr>

                    <td><input
type="radio" name="visualimpairment"
value="yes" <c:if
test="${checklist.visualimpairment ==
'yes'}">checked="yes"</c:if>/></td>

                    <td><input
type="radio" name="visualimpairment"
value="no" <c:if
test="${checklist.visualimpairment ==
'yes'}">checked="no"</c:if>></td>

                    <td>Visual
impairment</td>

                    <td><input
type="radio" name="hepatitis" value="yes"
<c:if test="${checklist.hepatitis ==
'yes'}">checked="yes"</c:if>/></td>

                    <td><input
type="radio" name="hepatitis" value="no"
<c:if test="${checklist.hepatitis ==
'no'}">checked="yes"</c:if>/></td>

                    <td>Hepatitis (A,
B, C, D)</td>

                </tr>

                <tr>

                    <td><input
type="radio" name="hearingimpairment"
value="yes" <c:if
test="${checklist.hearingimpairment ==
'yes'}">checked="yes"</c:if>/></td>

                    <td><input
type="radio" name="hearingimpairment"
value="no" <c:if
test="${checklist.hearingimpairment ==
'no'}">checked="yes"</c:if>/></td>

                    <td>Hearing
impairment</td>

                    <td><input
type="radio" name="hivpositive"
value="yes" <c:if
test="${checklist.hivpositive ==
'yes'}">checked="yes"</c:if>></td>

                    <td><input
type="radio" name="hivpositive"
value="no" <c:if
test="${checklist.hivpositive ==
'no'}">checked="yes"</c:if>></td>

                    <td>HIV
positive?</td>

                </tr>

                <tr>

                    <td><input
type="radio" name="arthritis" value="yes"
<c:if test="${checklist.arthritis ==
'yes'}">checked="yes"</c:if>/></td>

                    <td><input
type="radio" name="arthritis" value="no"
<c:if test="${checklist.arthritis ==
'no'}">checked="yes"</c:if>/></td>

                    <td>Arthritis</td>

                    <td><input
type="radio" name="pelvicdiscomfort"
value="yes" <c:if
test="${checklist.pelvicdiscomfort ==
'yes'}">checked="yes"</c:if>></td>

                    <td><input
type="radio" name="pelvicdiscomfort"
value="no" <c:if
test="${checklist.pelvicdiscomfort ==
'no'}">checked="yes"</c:if>></td>

                    <td>Pelvic/lower
abdominal discomfort</td>

                </tr>

                <tr>

                    <td><input
type="radio" name="nervousness"
value="yes" <c:if
test="${checklist.nervousness ==
'yes'}">checked="yes"</c:if>></td>

                    <td><input
type="radio" name="nervousness"
value="no" <c:if
test="${checklist.nervousness ==
'no'}">checked="yes"</c:if>></td>


                <td>Nervousness</td>

                    <td><input
type="radio" name="depression"
value="yes" <c:if
test="${checklist.depression ==
'yes'}">checked="yes"</c:if>></td>

                    <td><input
type="radio" name="depression"
value="no" <c:if
test="${checklist.depression ==
'no'}">checked="yes"</c:if>></td>
```

```
<td>Depression</td>

</tr>

<tr>

<td><input type="radio" name="anxiety" value="yes" <c:if test="${checklist.anxiety == 'yes'}">checked="yes"</c:if>></td>

<td><input type="radio" name="anxiety" value="no" <c:if test="${checklist.anxiety == 'no'}">checked="yes"</c:if>></td>

<td>Anxiety</td>

<td><input type="radio" name="checkothers" value="yes" onclick="showCheckothers()" <c:if test="${checklist.checkothers == 'yes'}">checked="yes"</c:if>></td>

<td><input type="radio" name="checkothers" value="no" onclick="hideCheckothers()" <c:if test="${checklist.checkothers == 'no'}">checked="yes"</c:if>></td>

<td>Others

<span id="othersspan" style="display:none"><input type="text" name="enumeratecheckothers" id="otherchecklist" value="${checklist.enumeratecheckothers}"></span></td>

</tr>

</table><br/>

<h2>Family History (Grandparents, Parents, Sisters, Brothers, Children)</h2>
<table>

<tr>

<td>YES</td>

<td>NO</td>

</tr>

<tr>

<td><input type="radio" name="familydiabetes" value="yes" <c:if test="${checklist.familydiabetes == 'yes'}">checked="yes"</c:if>></td>

<td><input type="radio" name="familydiabetes" value="no" <c:if test="${checklist.familydiabetes == 'no'}">checked="yes"</c:if>></td>

<td>Diabetes</td>

</tr>

<tr>

<td><input type="radio" name="familybleeding" value="yes" <c:if test="${checklist.familybleeding == 'yes'}">checked="yes"</c:if>></td>

<td><input type="radio" name="familybleeding" value="no" <c:if test="${checklist.familybleeding == 'no'}">checked="yes"</c:if>></td>

<td>Bleeding Disorders</td>

</tr>

<tr>

<td><input type="radio" name="familyheartdiseases" value="yes" <c:if test="${checklist.familyheartdiseases == 'yes'}">checked="yes"</c:if>></td>

<td><input type="radio" name="familyheartdiseases" value="no" <c:if test="${checklist.familyheartdiseases == 'no'}">checked="yes"</c:if>></td>

<td>Heart Diseases</td>

</tr>

<tr>

<td><input type="radio" name="familycancer" value="yes" <c:if test="${checklist.familycancer == 'yes'}">checked="yes"</c:if>></td>

<td><input type="radio" name="familycancer" value="no" <c:if test="${checklist.familycancer == 'no'}">checked="yes"</c:if>></td>

<td>Cancer</td>

</tr>

<tr>

<td><input type="radio" name="familyothers" value="yes" onclick="showFamilydisease()" <c:if test="${checklist.familyothers == 'yes'}">checked="yes"</c:if>></td>

<td><input type="radio" name="familyothers" value="no" onclick="hideFamilydisease()" <c:if test="${checklist.familyothers == 'no'}">checked="yes"</c:if>></td>

<td>Others

<span id="familyothersspan" style="display:none"><input type="text" name="enumerateotherfamily" id="otherfamilydisease" value="${checklist.enumerateotherfamily}"></span></td>

</tr>

</table><br/>

<h2>Allergies</h2>
<table>

<tr>

<td>YES</td>

<td>NO</td>

</tr>

<tr>

<td><input type="radio" name="drugallergy" value="yes" onclick="showDrugs()" <c:if test="${checklist.drugallergy == 'yes'}">checked="yes"</c:if>></td>

<td><input type="radio" name="drugallergy" value="no" onclick="hideDrugs()" <c:if test="${checklist.drugallergy == 'no'}">checked="yes"</c:if>></td>

<td>Drugs

<span id="drugallergyspan" style="display:none"><input type="text" name="enumeratedrugs" id="enumeratedrugs" value="${checklist.enumeratedrugs}"></span></td>

</tr>

<tr>

<td><input type="radio" name="foodallergy" value="yes" onclick="showFood()" <c:if test="${checklist.foodallergy == 'yes'}">checked="yes"</c:if>></td>

<td><input type="radio" name="foodallergy" value="no" onclick="hideFood()" <c:if test="${checklist.foodallergy == 'no'}">checked="yes"</c:if>></td>

<td>Food

<span id="foodallergyspan" style="display:none"><input type="text" name="enumeratefood" id="enumeratefood"
```

```
value="${checklist.enumeratefood}"></spa
n></td>

		</tr>

		<tr>

			<td><input
type="radio" name="rubberallergy"
value="yes" onclick="showRubber()" <c:if
test="${checklist.rubberallergy ==
'yes'}">checked="yes"</c:if>></td>

			<td><input
type="radio" name="rubberallergy"
value="no" onclick="hideRubber()" <c:if
test="${checklist.rubberallergy ==
'no'}">checked="yes"</c:if>></td>

			<td>Rubber

			<span
id="rubberallergyspan"
style="display:none"><input type="text"
name="enumeraterubber"
id="enumeraterubber"
value="${checklist.enumeraterubber}"></s
pan></td>

		</tr>

		<tr>

			<td><input
type="radio" name="otherallergy"
value="yes" onclick="showOtherallergy()"
<c:if test="${checklist.otherallergy ==
'yes'}">checked="yes"</c:if>></td>

			<td><input
type="radio" name="otherallergy"
value="no" onclick="hideOtherallergy()"
<c:if test="${checklist.otherallergy ==
'no'}">checked="yes"</c:if>></td>

			<td>Others

			<span
id="otherallergyspan"
style="display:none"><input type="text"
name="enumerateothers"
id="enumerateothers"
value="${checklist.enumerateothers}"></s
pan></td>

		</tr>

		</table><br/>
				<c:if
test="${sex == 'F' }">

		<h2>Females</h2>
				<table>

		<tr>

			<td>YES</td>

			<td>NO</td>

		</tr>

		<tr>

			<td><input
type="radio" name="pregnant" value="yes"
onclick="showMonthspregnant()" <c:if
test="${checklist.pregnant ==
'yes'}">checked="yes"</c:if>></td>

			<td><input
type="radio" name="pregnant" value="no"
onclick="hideMonthspregnant()" <c:if
test="${checklist.pregnant ==
'no'}">checked="yes"</c:if>></td>

			<td>Are you
pregnant now?

			<span
id="monthspregnantspan"
style="display:none"> <input type="text"
name="monthspregnant"
id="monthspregnant" size="5"
value="${checklist.monthspregnant }">
months</span></td>

		</tr>

		<tr>

			<td><input
type="radio" name="breastfeeding"
value="yes" <c:if
test="${checklist.breastfeeding ==
'yes'}">checked="yes"</c:if>></td>

			<td><input
type="radio" name="breastfeeding"
value="no" <c:if
test="${checklist.breastfeeding ==
'no'}">checked="yes"</c:if>></td>

			<td>Are you
breastfeeding now?</td>

		</tr>

		<tr>

			<td><input
type="radio" name="hormonereplacement"
value="yes" <c:if
test="${checklist.hormonereplacement ==
'yes'}">checked="yes"</c:if>></td>

			<td><input
type="radio" name="hormonereplacement"
value="no" <c:if
test="${checklist.hormonereplacement ==
'no'}">checked="yes"</c:if>></td>

			<td>Under
hormone replacement therapy?</td>

		</tr>

		<tr>

			<td><input
type="radio" name="menstruation"
value="yes" <c:if
test="${checklist.menstruation ==
'yes'}">checked="yes"</c:if>></td>

			<td><input
type="radio" name="menstruation"
value="no" <c:if
test="${checklist.menstruation ==
'no'}">checked="yes"</c:if>></td>

			<td>Menstruation?</td>

		</tr>

		<tr>

			<td><input
type="radio" name="contraceptive"
value="yes"
onclick="showContraceptives()" <c:if
test="${checklist.contraceptive ==
'yes'}">checked="yes"</c:if>></td>

			<td><input
type="radio" name="contraceptive"
value="no" onclick="hideContraceptives()"
<c:if test="${checklist.contraceptive ==
'no'}">checked="yes"</c:if>></td>

			<td>Taking any
form of contraceptive?

			<span
id="contraceptivespan"
style="display:none"> <input type="text"
name="enumeratecontraceptive"
id="enumeratecontraceptive"
value="${checklist.enumeratecontraceptive
}"></span></td>

		</tr>

		</table>
				</c:if>
		</div>
		<div id="tab6"
class="tab_content">
		<c:set var="consultations"
value="${consultations}"/>
		<h2>Consultations/Referral:
Include Medical Referrals</h2>
		<input type="hidden"
name="consultationversion"
value="${consultationversion}"/>
		<table>
		<b><tr>
			<td>Patient
Id</a></td>
			<td>Date</td>
			<td>Reason</td>
			<td>From</td>
			<td>To</td>
			<td>Findings</td>
			<td>Clinician</td>
			<td>Clinician
Nature</td>

		</tr></b>
		<c:forEach var="consultations"
items="${consultationslist}">
		<tr>
			<td><a
href="updateConsultation.form?patientId=
<%out.print(patientID);
%>&consultationversion=${consultations.c
onsultationversion}"
target="_blank">${consultations.consultati
onversion}</a></td>
```

```
            <td>${consultations.consultati
ondate}</td>

            <td>${consultations.consultati
onreason}</td>

            <td>${consultations.consultati
onfrom}</td>

            <td>${consultations.consultati
onto}</td>

            <td>${consultations.consultati
onfindings}</td>

            <td>${consultations.consultati
onclinician}</td>

            <td>${consultations.consultati
oncliniciannature}</td>
            </tr>
            </c:forEach>
        </table>
        <br/>
        <input type="button"
class="button" value="Add another
referral" onclick="showNewreferrals()">
                                    <span
id ="newreferrals" style="display:none;">
                                    <table>

            <tr>

                        <td>Date</td>

                        <td><input
type="text" name="consultationdate"
size="25"/></td>

            </tr>

            <tr>

                        <td>Reason for
consultation</td>

                        <td><input
type="text" name="consultationreason"
size="25"/></td>

            </tr>

            <tr>

                        <td>From</td>

                        <td><input
type="text" name="consultationfrom"
size="25"/></td>

            </tr>

            <tr>

                        <td>To</td>

                        <td><input
type="text" name="consultationto"
size="25"/></td>

            </tr>

            <tr>

                        <td>Findings/Recommendation
</td>

                        <td><input
type="text" name="consultationfindings"
size="25"/></td>

            </tr>

            <tr>

                        <td>Name of
Clinician</td>

                        <td><input
type="text" name="consultationclinician"
size="25"/></td>

            </tr>

            <tr>

                        <td>Clinician
Nature</td>

                        <td><input
type="text"
name="consultationcliniciannature"
size="25"/></td>

            </tr>

            </table>

            </span>
                                    </br>
            </div>
            </div>

<input type="submit" onclick="return
confirm('The information on this page will
be saved. Proceed to the next page?')"
class="button">
<input type="button" name="clear"
value="Clear All" onclick="clearForms();"
class="button"/>
</div>
</form>
</body>
```

Firstquadrant.js

```
<%@ include file="/WEB-
INF/template/include.jsp"%>

<c:set var="chart"
value="${theDentalChart}"/>
<c:set var="caries"
value="${theCariesStatus}"/>
<c:set var="recurrent"
value="${theRecurrentStatus}"/>
<c:set var="amalgam"
value="${theAmalgamStatus}"/>
<c:set var="composite"
value="${theCompositeStatus}"/>
<c:set var="glass"
value="${theGlassStatus}"/>
<c:set var="filling"
value="${theFillingStatus}"/>
<c:set var="user"
value="${currentUser}"/>
<c:set var="date"
value="${currentDate}"/>
<c:set var="time"
value="${currentTime}"/>
<c:set var="count"
value="${patientcount}"/>
<c:set var="services"
value="${theServicesNeeded}"/>

<div id="light18" class="white_content">
                        <font size = "2">
                        <b>Tooth 18
</b><br/><br/><br/>
                        <b>Dental
Status</b><br/>
                        <hr>
                        <input
type="checkbox" name="caries"
value="18" id="caries18" <c:if
test="${fn:contains(chart.caries,'18')}">che
cked="yes"</c:if>
onclick="showCaries()">Caries<br/>
                        <div
id="caries_surfaces18"
style="display:none;">

                &
nbsp;<input type="checkbox"
name="distalcaries" value="18"
id="distal18" onclick="drawDistal()" <c:if
test="${fn:contains(caries.distalcaries,'18')
}">checked="yes"</c:if>/>Distal
                        <input
type="checkbox" name="buccalcaries"
value="18" id="buccal18"
onclick="drawBuccal()" <c:if
test="${fn:contains(caries.buccalcaries,'18')
}">checked="yes"</c:if>/>Buccal
                        <input
type="checkbox" name="mesialcaries"
value="18" id="mesial18"
onclick="drawMesial()" <c:if
test="${fn:contains(caries.mesialcaries,'18')
}">checked="yes"</c:if>/>Mesial
                        <input
type="checkbox" name="lingualcaries"
value="18" id="lingual18"
onclick="drawLingual()" <c:if
test="${fn:contains(caries.lingualcaries,'18'
)}">checked="yes"</c:if>/>Lingual
                        <input
type="checkbox" name="occlusalcaries"
value="18" id="occlusal18"
onclick="drawOcclusal()" <c:if
test="${fn:contains(caries.occlusalcaries,'1
8')}">checked="yes"</c:if>/>Occlusal<br/
><br/>
                        </div>

                        <input
type="checkbox" name="recurrentcaries"
value="18" id="recurrentcaries18" <c:if
test="${fn:contains(chart.recurrentcaries,'1
8')}">checked="yes"</c:if>
onclick="showRecurrent()">Recurrent
Caries<br/>
                        <div
id="recurrent_surfaces18"
style="display:none;">

                &
nbsp;<input type="checkbox"
name="distalrecurrent" value="18"
id="redistal18" onclick="drawRedistal()"
```

```
<c:if
test="${fn:contains(recurrent.distalrecurren
t,'18')}">checked="yes"</c:if>/>Distal
                        <input
type="checkbox" name="buccalrecurrent"
value="18" id="rebuccal18"
onclick="drawRebuccal()" <c:if
test="${fn:contains(recurrent.buccalrecurre
nt,'18')}">checked="yes"</c:if>/>Buccal
                        <input
type="checkbox" name="mesialrecurrent"
value="18" id="remesial18"
onclick="drawRemesial()" <c:if
test="${fn:contains(recurrent.mesialrecurre
nt,'18')}">checked="yes"</c:if>/>Mesial
                        <input
type="checkbox" name="lingualrecurrent"
value="18" id="relingual18"
onclick="drawRelingual()" <c:if
test="${fn:contains(recurrent.lingualrecurre
nt,'18')}">checked="yes"</c:if>/>Lingual
                        <input
type="checkbox"
name="occlusalrecurrent" value="18"
id="reocclusal18"
onclick="drawReocclusal()" <c:if
test="${fn:contains(recurrent.occlusalrecur
rent,'18')}">checked="yes"</c:if>/>Occlus
al<br/><br/>
                        </div>

                        <input
type="checkbox" name="amalgam"
value="18" id="amalgam18"
onclick="showAmalgam()" <c:if
test="${fn:contains(chart.amalgam,'18')}">
checked="yes"</c:if>/>Amalgam<br/>
                        <div
id="amalgam_surfaces18"
style="display:none;">

                    &
nbsp;<input type="checkbox"
name="distalamalgam" value="18"
id="amaldistal18"
onclick="drawAmaldistal()"  <c:if
test="${fn:contains(amalgam.distalamalga
m,'18')}">checked="yes"</c:if>/>Distal
                        <input
type="checkbox" name="buccalamalgam"
value="18" id="amalbuccal18"
onclick="drawAmalbuccal()" <c:if
test="${fn:contains(amalgam.buccalamalga
m,'18')}">checked="yes"</c:if>/>Buccal
                        <input
type="checkbox" name="mesialamalgam"
value="18" id="amalmesial18"
onclick="drawAmalmesial()" <c:if
test="${fn:contains(amalgam.mesialamalga
m,'18')}">checked="yes"</c:if>/>Mesial
                        <input
type="checkbox" name="lingualamalgam"
value="18" id="amallingual18"
onclick="drawAmallingual()" <c:if
test="${fn:contains(amalgam.lingualamalg
am,'18')}">checked="yes"</c:if>/>Lingual
                        <input
type="checkbox"
name="occlusalamalgam" value="18"
id="amalocclusal18"
onclick="drawAmalocclusal()" <c:if
test="${fn:contains(amalgam.occlusalamal
gam,'18')}">checked="yes"</c:if>/>Occlus
al<br/><br/>
                        </div>

                        <input
type="checkbox" name="composite"
value="18" id="composite18"
onclick="showComposite()" <c:if
test="${fn:contains(chart.composite,'18')}"
>checked="yes"</c:if>/>Composite<br/>

                        <div
id="composite_surfaces18"
style="display:none;">

                    &
nbsp;<input type="checkbox"
name="distalcomposite" value="18"
id="compodistal18"
onclick="drawCompodistal()" <c:if
test="${fn:contains(composite.distalcompo
site,'18')}">checked="yes"</c:if>/>Distal
                        <input
type="checkbox" name="buccalcomposite"
value="18" id="compobuccal18"
onclick="drawCompobuccal()" <c:if
test="${fn:contains(composite.buccalcomp
osite,'18')}">checked="yes"</c:if>/>Bucca
l
                        <input
type="checkbox" name="mesialcomposite"
value="18" id="compomesial18"
onclick="drawCompomesial()" <c:if
test="${fn:contains(composite.mesialcomp
osite,'18')}">checked="yes"</c:if>/>Mesial
                        <input
type="checkbox"
name="lingualcomposite" value="18"
id="compolingual18"
onclick="drawCompolingual()" <c:if
test="${fn:contains(composite.lingualcomp
osite,'18')}">checked="yes"</c:if>/>Lingu
al
                        <input
type="checkbox"
name="occlusalcomposite" value="18"
id="compoocclusal18"
onclick="drawCompoocclusal()" <c:if
test="${fn:contains(composite.occlusalcom
posite,'18')}">checked="yes"</c:if>/>Occl
usal<br/><br/>
                        </div>


                        <input
type="checkbox" name="glassionomer"
value="18" id="glassionomer18"
onclick="showGlassionomer()" <c:if
test="${fn:contains(chart.glassionomer,'18'
)}">checked="yes"</c:if>/>Glass Ionomer
<br/>
                        <div
id="glass_surfaces18"
style="display:none;">

                    &
nbsp;<input type="checkbox"
name="distalglass" value="18"
id="glassdistal18"
onclick="drawGlassdistal()" <c:if
test="${fn:contains(glass.distalglass,'18')}"
>checked="yes"</c:if>/>Distal
                        <input
type="checkbox" name="buccalglass"
value="18" id="glassbuccal18"
onclick="drawGlassbuccal()" <c:if
test="${fn:contains(glass.buccalglass,'18')}
">checked="yes"</c:if>/>Buccal
                        <input
type="checkbox" name="mesialglass"
value="18" id="glassmesial18"
onclick="drawGlassmesial()" <c:if
test="${fn:contains(glass.mesialglass,'18')}
">checked="yes"</c:if>/>Mesial
                        <input
type="checkbox" name="lingualglass"
value="18" id="glasslingual18"
onclick="drawGlasslingual()" <c:if
test="${fn:contains(glass.lingualglass,'18')}
">checked="yes"</c:if>/>Lingual
                        <input
type="checkbox" name="occlusalglass"
value="18" id="glassocclusal18"
onclick="drawGlassocclusal()" <c:if
test="${fn:contains(glass.occlusalglass,'18')
}">checked="yes"</c:if>/>Occlusal<br/><
br/>
                        </div>

                        <input
type="checkbox" name="tempfilling"
value="18" id="tempfilling18"
onclick="showTempfilling()" <c:if
test="${fn:contains(chart.tempfilling,'18')}
">checked="yes"</c:if>/>Temporary
Filling <br/>
                        <div
id="filling_surfaces18"
style="display:none;">

                    &
nbsp;<input type="checkbox"
name="distalfilling" value="18"
id="fillingdistal18"
onclick="drawFillingdistal()" <c:if
test="${fn:contains(filling.distalfilling,'18')
}">checked="yes"</c:if>/>Distal
                        <input
type="checkbox" name="buccalfilling"
value="18" id="fillingbuccal18"
onclick="drawFillingbuccal()" <c:if
test="${fn:contains(filling.buccalfilling,'18'
)}">checked="yes"</c:if>/>Buccal
                        <input
type="checkbox" name="mesialfilling"
value="18" id="fillingmesial18"
onclick="drawFillingmesial()" <c:if
test="${fn:contains(filling.mesialfilling,'18'
)}">checked="yes"</c:if>/>Mesial
                        <input
type="checkbox" name="lingualfilling"
value="18" id="fillinglingual18"
onclick="drawFillinglingual()" <c:if
test="${fn:contains(filling.lingualfilling,'18
')}">checked="yes"</c:if>/>Lingual
                        <input
type="checkbox" name="occlusalfilling"
value="18" id="fillingocclusal18"
onclick="drawFillingocclusal()" <c:if
test="${fn:contains(filling.occlusalfilling,'1
8')}">checked="yes"</c:if>/>Occlusal
                        </div>

                        <table>
                        <tr>

                <td><input type="checkbox"
name="extrusion" id="extrusion18"
value="18" onclick="drawExtrusion()"
<c:if
```

```
test="${fn:contains(chart.extrusion,'18')}">
checked="yes"</c:if>/></td>

            <td>Extrusion</td>

            <td><input type="checkbox"
name="intrusion" id="intrusion18"
value="18" onclick="drawIntrusion()" <c:if
test="${fn:contains(chart.intrusion,'18')}">
checked="yes"</c:if>/></td>

            <td>Intrusion</td>

            <td><input type="checkbox"
name="mesialdrift" id="mesialdrift18"
value="18" onclick="drawMesialdrift()"
<c:if
test="${fn:contains(chart.mesialdrift,'18')}"
>checked="yes"</c:if>/></td>

            <td>Mesial Drifting
Rotation</td>

            <td><input type="checkbox"
name="distaldrift" id="distaldrift18"
value="18" onclick="drawDistaldrift()"
<c:if
test="${fn:contains(chart.distaldrift,'18')}"
>checked="yes"</c:if>/></td>

            <td>Distal Drifting
Rotation</td>
                        </tr><br/>
                        <tr>

            <td><input type="checkbox"
name="rotation" id="rotation18"
value="18" onclick="drawRotation()" <c:if
test="${fn:contains(chart.rotation,'18')}">c
hecked="yes"</c:if>/></td>

            <td>Rotation</td>

            <td><input type="checkbox"
name="postcorecrown"
id="postcorecrown18" value="18"
onclick="drawPostcorecrown()" <c:if
test="${fn:contains(chart.postcorecrown,'1
8')}">checked="yes"</c:if>/></td>

            <td>Post Core Crown</td>

            <td><input type="checkbox"
name="rootcanal" value="18"
id="rootcanal18"
onclick="drawRootcanal()" <c:if
test="${fn:contains(chart.rootcanal,'18')}">
checked="yes"</c:if>/></td>

            <td>Root Canal
Treatment</td>

            <td><input type="checkbox"
name="pitandfissure" value="18"
id="pitfissure18"
onclick="drawPitfissure()" <c:if
test="${fn:contains(chart.pitandfissure,'18')
}">checked="yes"</c:if>/></td>
                                    <td>Pit
and Fissure Sealants</td>
                        </tr><br/>
                        <tr>

            <td><input type="checkbox"
name="extracted" id="extracted18"
value="18" onclick="drawExtracted()"
<c:if
test="${fn:contains(chart.extracted,'18')}">
checked="yes"</c:if>/></td>

            <td>Extracted</td>

            <td><input type="checkbox"
name="missing" id="missing18"
value="18" onclick="drawMissing()" <c:if
test="${fn:contains(chart.missing,'18')}">c
hecked="yes"</c:if>/></td>

            <td>Missing</td>

            <td><input type="checkbox"
name="unerupted" id="unerupted18"
value="18" onclick="drawUnerupted()"
<c:if
test="${fn:contains(chart.unerupted,'18')}"
>checked="yes"</c:if>/></td>

            <td>Unerupted</td>

            <td><input type="checkbox"
name="impacted" id="impacted18"
value="18" onclick="drawImpacted()"
<c:if
test="${fn:contains(chart.impacted,'18')}">
checked="yes"</c:if>/></td>

            <td>Impacted</td>
                        </tr><br/>
                        <tr>

            <td><input type="checkbox"
name="porcelainfused"
id="porcelainfused18" value="18"
onclick="drawPorcelainfused()" <c:if
test="${fn:contains(chart.porcelainfused,'1
8')}">checked="yes"</c:if>/></td>

            <td>Porcelain Fused to
Metal</td>

            <td><input type="checkbox"
name="acryliccrown" id="acryliccrown18"
value="18" onclick="drawAcryliccrown()"
<c:if
test="${fn:contains(chart.acryliccrown,'18')
}">checked="yes"</c:if>/></td>

            <td>Acrylic Crown</td>

            <td><input type="checkbox"
name="metalcrown" id="metalcrown18"
value="18" onclick="drawMetalcrown()"
<c:if
test="${fn:contains(chart.metalcrown,'18')}
">checked="yes"</c:if>/></td>

            <td>Metal Crown</td>

            <td><input type="checkbox"
name="porcelaincrown"
id="porcelaincrown18" value="18"
onclick="drawPorcelaincrown()" <c:if
test="${fn:contains(chart.porcelaincrown,'1
8')}">checked="yes"</c:if>/></td>

            <td>Porcelain Crown</td>
                        </tr><br/>
                        <tr>

            <td><input type="checkbox"
name="removablepartial" value="18"
id="removablepartial18"
onclick="drawRemovable()" <c:if
test="${fn:contains(chart.removablepartial,'
18')}">checked="yes"</c:if>/></td>

            <td>Removable Partial
Denture</td>

            <td><input type="checkbox"
name="fixedbridge" id="fixedbridge18"
value="18" onclick="drawFixedbridge()"
<c:if
test="${fn:contains(chart.fixedbridge,'18')}
">checked="yes"</c:if>/></td>

            <td>Fixed Bridge</td>

            <td><input type="checkbox"
name="restorable" id="restorable18"
value="18" onclick="drawRestorable()"
<c:if
test="${fn:contains(chart.restorable,'18')}"
>checked="yes"</c:if>/></td>

            <td>Restorable</td>

            <td><input type="checkbox"
name="nonrestorable"
id="nonrestorable18" value="18"
onclick="drawNonrestorable()" <c:if
test="${fn:contains(chart.nonrestorable,'18'
)}">checked="yes"</c:if>/></td>

            <td>Non-restorable</td>
                        </tr>
                        </table>
                        <hr>
                        <br/><br/>
                        <b>Services
needed</b><br/>
                        <hr>
                        <u>Operative
Dentistry</u><br/>
                        <input
type="checkbox" name="class1"
value="18" onclick="drawExtracted()"
<c:if
test="${fn:contains(services.class1,'18')}">
checked="yes"</c:if>>Class I
                        <input
type="checkbox" name="class2"
value="18" <c:if
test="${fn:contains(services.class2,'18')}">
checked="yes"</c:if>>Class II
                        <input
type="checkbox" name="class3"
value="18" <c:if
test="${fn:contains(services.class3,'18')}">
checked="yes"</c:if>>Class III
                        <input
type="checkbox" name="class4"
value="18" <c:if
test="${fn:contains(services.class4,'18')}">
checked="yes"</c:if>>Class IV
                        <input
type="checkbox" name="class5"
value="18" <c:if
test="${fn:contains(services.class5,'18')}">
checked="yes"</c:if>>Class V
                        <input
type="checkbox" name="onlay"
```

```
value="18" <c:if
test="${fn:contains(services.onlay,'18')}">
checked="yes"</c:if>>Onlay
                        <br/><br/>
                        <u> Surgery
</u><br/>
                        <input
type="checkbox" name="extraction"
value="18" <c:if
test="${fn:contains(services.extraction,'18')
}">checked="yes"</c:if>>Extraction
                        <input
type="checkbox" name="odontectomy"
value="18" <c:if
test="${fn:contains(services.odontectomy,'
18')}">checked="yes"</c:if>>Odontectom
y
                        <input
type="checkbox" name="specialcase"
value="18" <c:if
test="${fn:contains(services.specialcase,'18
')}">checked="yes"</c:if>>Special Case
                        <br/><br/>
                        <u> Emergency
Treatment </u><br/>
                        <input
type="checkbox" name="pulpsedation"
value="18" <c:if
test="${fn:contains(services.pulpsedation,'
18')}">checked="yes"</c:if>>Pulp
Sedation
                        <input
type="checkbox"
name="crownrecementation" value="18"
<c:if
test="${fn:contains(services.crownrecemen
tation,'18')}">checked="yes"</c:if>>Rece
mentation of crowns
                        <input
type="checkbox" name="fillingservice"
value="18" <c:if
test="${fn:contains(services.fillingservice,'
18')}">checked="yes"</c:if>>Temporary
fillings
                        <br/><br/>
                        <u> Fixed Partial
Dentures </u><br/>
                        <input
type="checkbox" name="laminated"
value="18" <c:if
test="${fn:contains(services.laminated,'18')
}">checked="yes"</c:if>>Laminated
                        <input
type="checkbox" name="singlecrown"
value="18" <c:if
test="${fn:contains(services.singlecrown,'1
8')}">checked="yes"</c:if>>Single Crown
                        <input
type="checkbox" name="bridgeservice"
value="18" <c:if
test="${fn:contains(services.bridgeservice,'
18')}">checked="yes"</c:if>>Bridge
                        <br/><br/>
                        <u> Endodontics
</u><br/>
                        <input
type="checkbox" name="anterior"
value="18" <c:if
test="${fn:contains(services.anterior,'18')}"
>checked="yes"</c:if>>Anterior
                        <input
type="checkbox" name="posterior"
value="18" <c:if
test="${fn:contains(services.posterior,'18')}
">checked="yes"</c:if>>Posterior
                        <input
type="checkbox"
name="otherendodontics" value="18" <c:if
test="${fn:contains(services.otherendodont
ics,'18')}">checked="yes"</c:if>>Others
(Endosurgery, Bleaching, etc.)
                        <br/><br/>
                        <hr>
                        <a href =
"javascript:void(0)" onclick =
"document.getElementById('light18').style.
display='none';document.getElementById('
fade18').style.display='none'">Submit</a>
                        <input
type="button" onclick="cancel()"></div>

                        <div id="fade18"
class="black_overlay"></div>
                        </div>
                </font>
                </div>

                <div id="light17"
class="white_content">
                        <font size = "2">
                        <b>Tooth 17
</b><br/><br/><br/>
                        <b>Dental
Status</b><br/>
                        <hr>
                        <input
type="checkbox" name="caries"
value="17" id="caries17" <c:if
test="${fn:contains(chart.caries,'17')}">che
cked="yes"</c:if>
onclick="showCaries()">Caries<br/>
                        <div
id="caries_surfaces17"
style="display:none;">

                    &
nbsp;<input type="checkbox"
name="distalcaries" value="17"
id="distal17" onclick="drawDistal()" <c:if
test="${fn:contains(caries.distalcaries,'17')
}">checked="yes"</c:if>/>Distal
                        <input
type="checkbox" name="buccalcaries"
value="17" id="buccal17"
onclick="drawBuccal()" <c:if
test="${fn:contains(caries.buccalcaries,'17')
}">checked="yes"</c:if>/>Buccal
                        <input
type="checkbox" name="mesialcaries"
value="17" id="mesial17"
onclick="drawMesial()" <c:if
test="${fn:contains(caries.mesialcaries,'17')
}">checked="yes"</c:if>/>Mesial
                        <input
type="checkbox" name="lingualcaries"
value="17" id="lingual17"
onclick="drawLingual()" <c:if
test="${fn:contains(caries.lingualcaries,'17'
)}">checked="yes"</c:if>/>Lingual
                        <input
type="checkbox" name="occlusalcaries"
value="17" id="occlusal17"
onclick="drawOcclusal()" <c:if
test="${fn:contains(caries.occlusalcaries,'1
7')}">checked="yes"</c:if>/>Occlusal<br/
><br/>
                        </div>

                        <input
type="checkbox" name="recurrentcaries"
value="17" id="recurrentcaries17" <c:if
test="${fn:contains(chart.recurrentcaries,'1
7')}">checked="yes"</c:if>
onclick="showRecurrent()">Recurrent
Caries<br/>
                        <div
id="recurrent_surfaces17"
style="display:none;">

                    &
nbsp;<input type="checkbox"
name="distalrecurrent" value="17"
id="redistal17" onclick="drawRedistal()"
<c:if
test="${fn:contains(recurrent.distalrecurren
t,'17')}">checked="yes"</c:if>/>Distal
                        <input
type="checkbox" name="buccalrecurrent"
value="17" id="rebuccal17"
onclick="drawRebuccal()" <c:if
test="${fn:contains(recurrent.buccalrecurre
nt,'17')}">checked="yes"</c:if>/>Buccal
                        <input
type="checkbox" name="mesialrecurrent"
value="17" id="remesial17"
onclick="drawRemesial()" <c:if
test="${fn:contains(recurrent.mesialrecurre
nt,'17')}">checked="yes"</c:if>/>Mesial
                        <input
type="checkbox" name="lingualrecurrent"
value="17" id="relingual17"
onclick="drawRelingual()" <c:if
test="${fn:contains(recurrent.lingualrecurre
nt,'17')}">checked="yes"</c:if>/>Lingual
                        <input
type="checkbox"
name="occlusalrecurrent" value="17"
id="reocclusal17"
onclick="drawReocclusal()" <c:if
test="${fn:contains(recurrent.occlusalrecur
rent,'17')}">checked="yes"</c:if>/>Occlus
al<br/><br/>
                        </div>

                        <input
type="checkbox" name="amalgam"
value="17" id="amalgam17"
onclick="showAmalgam()" <c:if
test="${fn:contains(chart.amalgam,'17')}">
checked="yes"</c:if>/>Amalgam<br/>
                        <div
id="amalgam_surfaces17"
style="display:none;">

                    &
nbsp;<input type="checkbox"
name="distalamalgam" value="17"
id="amaldistal17"
onclick="drawAmaldistal()"  <c:if
test="${fn:contains(amalgam.distalamalga
m,'17')}">checked="yes"</c:if>/>Distal
                        <input
type="checkbox" name="buccalamalgam"
value="17" id="amalbuccal17"
onclick="drawAmalbuccal()" <c:if
test="${fn:contains(amalgam.buccalamalga
m,'17')}">checked="yes"</c:if>/>Buccal
                        <input
type="checkbox" name="mesialamalgam"
value="17" id="amalmesial17"
onclick="drawAmalmesial()" <c:if
```

```
test="${fn:contains(amalgam.mesialamalgam,'17')}">checked="yes"</c:if>/>Mesial
                        <input type="checkbox" name="lingualamalgam" value="17" id="amallingual17" onclick="drawAmallingual()" <c:if test="${fn:contains(amalgam.lingualamalgam,'17')}">checked="yes"</c:if>/>Lingual
                        <input type="checkbox" name="occlusalamalgam" value="17" id="amalocclusal17" onclick="drawAmalocclusal()" <c:if test="${fn:contains(amalgam.occlusalamalgam,'17')}">checked="yes"</c:if>/>Occlusal<br/><br/>
                        </div>

                        <input type="checkbox" name="composite" value="17" id="composite17" onclick="showComposite()" <c:if test="${fn:contains(chart.composite,'17')}">checked="yes"</c:if>/>Composite<br/>

                        <div id="composite_surfaces17" style="display:none;">

                     <input type="checkbox" name="distalcomposite" value="17" id="compodistal17" onclick="drawCompodistal()" <c:if test="${fn:contains(composite.distalcomposite,'17')}">checked="yes"</c:if>/>Distal
                        <input type="checkbox" name="buccalcomposite" value="17" id="compobuccal17" onclick="drawCompobuccal()" <c:if test="${fn:contains(composite.buccalcomposite,'17')}">checked="yes"</c:if>/>Buccal
                        <input type="checkbox" name="mesialcomposite" value="17" id="compomesial17" onclick="drawCompomesial()" <c:if test="${fn:contains(composite.mesialcomposite,'17')}">checked="yes"</c:if>/>Mesial
                        <input type="checkbox" name="lingualcomposite" value="17" id="compolingual17" onclick="drawCompolingual()" <c:if test="${fn:contains(composite.lingualcomposite,'17')}">checked="yes"</c:if>/>Lingual
                        <input type="checkbox" name="occlusalcomposite" value="17" id="compoocclusal17" onclick="drawCompoocclusal()" <c:if test="${fn:contains(composite.occlusalcomposite,'17')}">checked="yes"</c:if>/>Occlusal<br/><br/>
                        </div>

                        <input type="checkbox" name="glassionomer" value="17" id="glassionomer17" onclick="showGlassionomer()" <c:if test="${fn:contains(chart.glassionomer,'17')}">checked="yes"</c:if>/>Glass Ionomer <br/>
                        <div id="glass_surfaces17" style="display:none;">

                     <input type="checkbox" name="distalglass" value="17" id="glassdistal17" onclick="drawGlassdistal()" <c:if test="${fn:contains(glass.distalglass,'17')}">checked="yes"</c:if>/>Distal
                        <input type="checkbox" name="buccalglass" value="17" id="glassbuccal17" onclick="drawGlassbuccal()" <c:if test="${fn:contains(glass.buccalglass,'17')}">checked="yes"</c:if>/>Buccal
                        <input type="checkbox" name="mesialglass" value="17" id="glassmesial17" onclick="drawGlassmesial()" <c:if test="${fn:contains(glass.mesialglass,'17')}">checked="yes"</c:if>/>Mesial
                        <input type="checkbox" name="lingualglass" value="17" id="glasslingual17" onclick="drawGlasslingual()" <c:if test="${fn:contains(glass.lingualglass,'17')}">checked="yes"</c:if>/>Lingual
                        <input type="checkbox" name="occlusalglass" value="17" id="glassocclusal17" onclick="drawGlassocclusal()" <c:if test="${fn:contains(glass.occlusalglass,'17')}">checked="yes"</c:if>/>Occlusal<br/><br/>
                        </div>

                        <input type="checkbox" name="tempfilling" value="17" id="tempfilling17" onclick="showTempfilling()" <c:if test="${fn:contains(chart.tempfilling,'17')}">checked="yes"</c:if>/>Temporary Filling <br/>
                        <div id="filling_surfaces17" style="display:none;">

                     <input type="checkbox" name="distalfilling" value="17" id="fillingdistal17" onclick="drawFillingdistal()" <c:if test="${fn:contains(filling.distalfilling,'17')}">checked="yes"</c:if>/>Distal
                        <input type="checkbox" name="buccalfilling" value="17" id="fillingbuccal17" onclick="drawFillingbuccal()" <c:if test="${fn:contains(filling.buccalfilling,'17')}">checked="yes"</c:if>/>Buccal
                        <input type="checkbox" name="mesialfilling" value="17" id="fillingmesial17" onclick="drawFillingmesial()" <c:if test="${fn:contains(filling.mesialfilling,'17')}">checked="yes"</c:if>/>Mesial
                        <input type="checkbox" name="lingualfilling" value="17" id="fillinglingual17" onclick="drawFillinglingual()" <c:if test="${fn:contains(filling.lingualfilling,'17')}">checked="yes"</c:if>/>Lingual
                        <input type="checkbox" name="occlusalfilling" value="17" id="fillingocclusal17" onclick="drawFillingocclusal()" <c:if test="${fn:contains(filling.occlusalfilling,'17')}">checked="yes"</c:if>/>Occlusal
                        </div>

                        <table>
                        <tr>

                <td><input type="checkbox" name="extrusion" id="extrusion17" value="17" onclick="drawExtrusion()" <c:if test="${fn:contains(chart.extrusion,'17')}">checked="yes"</c:if>/></td>

                <td>Extrusion</td>

                <td><input type="checkbox" name="intrusion" id="intrusion17" value="17" onclick="drawIntrusion()" <c:if test="${fn:contains(chart.intrusion,'17')}">checked="yes"</c:if>/></td>

                <td>Intrusion</td>

                <td><input type="checkbox" name="mesialdrift" id="mesialdrift17" value="17" onclick="drawMesialdrift()" <c:if test="${fn:contains(chart.mesialdrift,'17')}">checked="yes"</c:if>/></td>

                <td>Mesial Drifting Rotation</td>

                <td><input type="checkbox" name="distaldrift" id="distaldrift17" value="17" onclick="drawDistaldrift()" <c:if test="${fn:contains(chart.distaldrift,'17')}">checked="yes"</c:if>/></td>

                <td>Distal Drifting Rotation</td>
                        </tr><br/>
                        <tr>

                <td><input type="checkbox" name="rotation" id="rotation17" value="17" onclick="drawRotation()" <c:if test="${fn:contains(chart.rotation,'17')}">checked="yes"</c:if>/></td>

                <td>Rotation</td>

                <td><input type="checkbox" name="postcorecrown" id="postcorecrown17" value="17" onclick="drawPostcorecrown()" <c:if test="${fn:contains(chart.postcorecrown,'17')}">checked="yes"</c:if>/></td>

                <td>Post Core Crown</td>

                <td><input type="checkbox" name="rootcanal" value="17" id="rootcanal17" onclick="drawRootcanal()" <c:if
```

```
test="${fn:contains(chart.rootcanal,'17')}">
checked="yes"</c:if>/></td>

                <td>Root Canal
Treatment</td>

                <td><input type="checkbox"
name="pitandfissure" value="17"
id="pitfissure17"
onclick="drawPitfissure()" <c:if
test="${fn:contains(chart.pitandfissure,'17')
}">checked="yes"</c:if>/></td>
                                        <td>Pit
and Fissure Sealants</td>
                        </tr><br/>
                        <tr>

                <td><input type="checkbox"
name="extracted" id="extracted17"
value="17" onclick="drawExtracted()"
<c:if
test="${fn:contains(chart.extracted,'17')}">
checked="yes"</c:if>/></td>

                <td>Extracted</td>

                <td><input type="checkbox"
name="missing" id="missing17"
value="17" onclick="drawMissing()" <c:if
test="${fn:contains(chart.missing,'17')}">c
hecked="yes"</c:if>/></td>

                <td>Missing</td>

                <td><input type="checkbox"
name="unerupted" id="unerupted17"
value="17" onclick="drawUnerupted()"
<c:if
test="${fn:contains(chart.unerupted,'17')}"
>checked="yes"</c:if>/></td>

                <td>Unerupted</td>

                <td><input type="checkbox"
name="impacted" id="impacted17"
value="17" onclick="drawImpacted()"
<c:if
test="${fn:contains(chart.impacted,'17')}">
checked="yes"</c:if>/></td>

                <td>Impacted</td>
                        </tr><br/>
                        <tr>

                <td><input type="checkbox"
name="porcelainfused"
id="porcelainfused17" value="17"
onclick="drawPorcelainfused()" <c:if
test="${fn:contains(chart.porcelainfused,'1
7')}">checked="yes"</c:if>/></td>

                <td>Porcelain Fused to
Metal</td>

                <td><input type="checkbox"
name="acryliccrown" id="acryliccrown17"
value="17" onclick="drawAcryliccrown()"
<c:if
test="${fn:contains(chart.acryliccrown,'17')
}">checked="yes"</c:if>/></td>

                <td>Acrylic Crown</td>

                <td><input type="checkbox"
name="metalcrown" id="metalcrown17"
value="17" onclick="drawMetalcrown()"
<c:if
test="${fn:contains(chart.metalcrown,'17')}
">checked="yes"</c:if>/></td>

                <td>Metal Crown</td>

                <td><input type="checkbox"
name="porcelaincrown"
id="porcelaincrown17" value="17"
onclick="drawPorcelaincrown()" <c:if
test="${fn:contains(chart.porcelaincrown,'1
7')}">checked="yes"</c:if>/></td>

                <td>Porcelain Crown</td>
                        </tr><br/>
                        <tr>

                <td><input type="checkbox"
name="removablepartial" value="17"
id="removablepartial17"
onclick="drawRemovable()" <c:if
test="${fn:contains(chart.removablepartial,'
17')}">checked="yes"</c:if>/></td>

                <td>Removable Partial
Denture</td>

                <td><input type="checkbox"
name="fixedbridge" id="fixedbridge17"
value="17" onclick="drawFixedbridge()"
<c:if
test="${fn:contains(chart.fixedbridge,'17')}
">checked="yes"</c:if>/></td>

                <td>Fixed Bridge</td>

                <td><input type="checkbox"
name="restorable" id="restorable17"
value="17" onclick="drawRestorable()"
<c:if
test="${fn:contains(chart.restorable,'17')}"
>checked="yes"</c:if>/></td>

                <td>Restorable</td>

                <td><input type="checkbox"
name="nonrestorable"
id="nonrestorable17" value="17"
onclick="drawNonrestorable()" <c:if
test="${fn:contains(chart.nonrestorable,'17'
)}">checked="yes"</c:if>/></td>

                <td>Non-restorable</td>
                        </tr>
                        </table>
                        <hr>
                        <br/><br/>
                        <b>Services
needed</b><br/>
                        <hr>
                        <u>Operative
Dentistry</u><br/>
                        <input
type="checkbox" name="class1"
value="17" onclick="drawExtracted()"
<c:if
test="${fn:contains(services.class1,'17')}">
checked="yes"</c:if>>Class I
                        <input
type="checkbox" name="class2"
value="17" <c:if
test="${fn:contains(services.class2,'17')}">
checked="yes"</c:if>>Class II
                        <input
type="checkbox" name="class3"
value="17" <c:if
test="${fn:contains(services.class3,'17')}">
checked="yes"</c:if>>Class III
                        <input
type="checkbox" name="class4"
value="17" <c:if
test="${fn:contains(services.class4,'17')}">
checked="yes"</c:if>>Class IV
                        <input
type="checkbox" name="class5"
value="17" <c:if
test="${fn:contains(services.class5,'17')}">
checked="yes"</c:if>>Class V
                        <input
type="checkbox" name="onlay"
value="17" <c:if
test="${fn:contains(services.onlay,'17')}">
checked="yes"</c:if>>Onlay
                        <br/><br/>
                        <u> Surgery
</u><br/>
                        <input
type="checkbox" name="extraction"
value="17" <c:if
test="${fn:contains(services.extraction,'17')
}">checked="yes"</c:if>>Extraction
                        <input
type="checkbox" name="odontectomy"
value="17" <c:if
test="${fn:contains(services.odontectomy,'
17')}">checked="yes"</c:if>>Odontectom
y
                        <input
type="checkbox" name="specialcase"
value="17" <c:if
test="${fn:contains(services.specialcase,'17
')}">checked="yes"</c:if>>Special Case
                        <br/><br/>
                        <u> Emergency
Treatment </u><br/>
                        <input
type="checkbox" name="pulpsedation"
value="17" <c:if
test="${fn:contains(services.pulpsedation,'
17')}">checked="yes"</c:if>>Pulp
Sedation
                        <input
type="checkbox"
name="crownrecementation" value="17"
<c:if
test="${fn:contains(services.crownrecemen
tation,'17')}">checked="yes"</c:if>>Rece
mentation of crowns
                        <input
type="checkbox" name="fillingservice"
value="17" <c:if
test="${fn:contains(services.fillingservice,'
17')}">checked="yes"</c:if>>Temporary
fillings
                        <br/><br/>
                        <u> Fixed Partial
Dentures </u><br/>
                        <input
type="checkbox" name="laminated"
value="17" <c:if
test="${fn:contains(services.laminated,'17')
}">checked="yes"</c:if>>Laminated
                        <input
type="checkbox" name="singlecrown"
value="17" <c:if
```

```
test="${fn:contains(services.singlecrown,'17')}">checked="yes"</c:if>>Single Crown
                        <input type="checkbox" name="bridgeservice" value="17" <c:if test="${fn:contains(services.bridgeservice,'17')}">checked="yes"</c:if>>Bridge
                        <br/><br/>
                        <u> Endodontics </u><br/>
                        <input type="checkbox" name="anterior" value="17" <c:if test="${fn:contains(services.anterior,'17')}" >checked="yes"</c:if>>Anterior
                        <input type="checkbox" name="posterior" value="17" <c:if test="${fn:contains(services.posterior,'17')} ">checked="yes"</c:if>>Posterior
                        <input type="checkbox" name="otherendodontics" value="17" <c:if test="${fn:contains(services.otherendodontics,'17')}">checked="yes"</c:if>>Others (Endosurgery, Bleaching, etc.)
                        <br/><br/>
                        <hr>
                        <a href = "javascript:void(0)" onclick = "document.getElementById('light17').style.display='none';document.getElementById('fade17').style.display='none'">Submit</a>
                    </div>
                        <div id="fade17" class="black_overlay"></div>
                        </div>
                </font>
                </div>

                <div id="light16" class="white_content">
                        <font size = "2">
                        <b>Tooth 16 </b><br/><br/><br/>
                        <b>Dental Status</b><br/>
                        <hr>
                        <input type="checkbox" name="caries" value="16" id="caries16" <c:if test="${fn:contains(chart.caries,'16')}">checked="yes"</c:if> onclick="showCaries()">Caries<br/>
                        <div id="caries_surfaces16" style="display:none;">

                     <input type="checkbox" name="distalcaries" value="16" id="distal16" onclick="drawDistal()" <c:if test="${fn:contains(caries.distalcaries,'16')}">checked="yes"</c:if>/>Distal
                        <input type="checkbox" name="buccalcaries" value="16" id="buccal16" onclick="drawBuccal()" <c:if test="${fn:contains(caries.buccalcaries,'16')}">checked="yes"</c:if>/>Buccal
                        <input type="checkbox" name="mesialcaries" value="16" id="mesial16" onclick="drawMesial()" <c:if test="${fn:contains(caries.mesialcaries,'16')}">checked="yes"</c:if>/>Mesial
                        <input type="checkbox" name="lingualcaries" value="16" id="lingual16" onclick="drawLingual()" <c:if test="${fn:contains(caries.lingualcaries,'16')}">checked="yes"</c:if>/>Lingual
                        <input type="checkbox" name="occlusalcaries" value="16" id="occlusal16" onclick="drawOcclusal()" <c:if test="${fn:contains(caries.occlusalcaries,'16')}">checked="yes"</c:if>/>Occlusal<br/><br/>
                        </div>

                        <input type="checkbox" name="recurrentcaries" value="16" id="recurrentcaries16" <c:if test="${fn:contains(chart.recurrentcaries,'16')}">checked="yes"</c:if> onclick="showRecurrent()">Recurrent Caries<br/>
                        <div id="recurrent_surfaces16" style="display:none;">

                     <input type="checkbox" name="distalrecurrent" value="16" id="redistal16" onclick="drawRedistal()" <c:if test="${fn:contains(recurrent.distalrecurrent,'16')}">checked="yes"</c:if>/>Distal
                        <input type="checkbox" name="buccalrecurrent" value="16" id="rebuccal16" onclick="drawRebuccal()" <c:if test="${fn:contains(recurrent.buccalrecurrent,'16')}">checked="yes"</c:if>/>Buccal
                        <input type="checkbox" name="mesialrecurrent" value="16" id="remesial16" onclick="drawRemesial()" <c:if test="${fn:contains(recurrent.mesialrecurrent,'16')}">checked="yes"</c:if>/>Mesial
                        <input type="checkbox" name="lingualrecurrent" value="16" id="relingual16" onclick="drawRelingual()" <c:if test="${fn:contains(recurrent.lingualrecurrent,'16')}">checked="yes"</c:if>/>Lingual
                        <input type="checkbox" name="occlusalrecurrent" value="16" id="reocclusal16" onclick="drawReocclusal()" <c:if test="${fn:contains(recurrent.occlusalrecurrent,'16')}">checked="yes"</c:if>/>Occlusal<br/><br/>
                        </div>

                        <input type="checkbox" name="amalgam" value="16" id="amalgam16" onclick="showAmalgam()" <c:if test="${fn:contains(chart.amalgam,'16')}">checked="yes"</c:if>/>Amalgam<br/>
                        <div id="amalgam_surfaces16" style="display:none;">

                     <input type="checkbox" name="distalamalgam" value="16" id="amaldistal16" onclick="drawAmaldistal()"  <c:if test="${fn:contains(amalgam.distalamalgam,'16')}">checked="yes"</c:if>/>Distal
                        <input type="checkbox" name="buccalamalgam" value="16" id="amalbuccal16" onclick="drawAmalbuccal()" <c:if test="${fn:contains(amalgam.buccalamalgam,'16')}">checked="yes"</c:if>/>Buccal
                        <input type="checkbox" name="mesialamalgam" value="16" id="amalmesial16" onclick="drawAmalmesial()" <c:if test="${fn:contains(amalgam.mesialamalgam,'16')}">checked="yes"</c:if>/>Mesial
                        <input type="checkbox" name="lingualamalgam" value="16" id="amallingual16" onclick="drawAmallingual()" <c:if test="${fn:contains(amalgam.lingualamalgam,'16')}">checked="yes"</c:if>/>Lingual
                        <input type="checkbox" name="occlusalamalgam" value="16" id="amalocclusal16" onclick="drawAmalocclusal()" <c:if test="${fn:contains(amalgam.occlusalamalgam,'16')}">checked="yes"</c:if>/>Occlusal<br/><br/>
                        </div>

                        <input type="checkbox" name="composite" value="16" id="composite16" onclick="showComposite()" <c:if test="${fn:contains(chart.composite,'16')}" >checked="yes"</c:if>/>Composite<br/>

                        <div id="composite_surfaces16" style="display:none;">

                     <input type="checkbox" name="distalcomposite" value="16" id="compodistal16" onclick="drawCompodistal()" <c:if test="${fn:contains(composite.distalcomposite,'16')}">checked="yes"</c:if>/>Distal
                        <input type="checkbox" name="buccalcomposite" value="16" id="compobuccal16" onclick="drawCompobuccal()" <c:if test="${fn:contains(composite.buccalcomposite,'16')}">checked="yes"</c:if>/>Buccal
                        <input type="checkbox" name="mesialcomposite" value="16" id="compomesial16" onclick="drawCompomesial()" <c:if test="${fn:contains(composite.mesialcomposite,'16')}">checked="yes"</c:if>/>Mesial
                        <input type="checkbox" name="lingualcomposite" value="16" id="compolingual16" onclick="drawCompolingual()" <c:if test="${fn:contains(composite.lingualcomposite,'16')}">checked="yes"</c:if>/>Lingual
```

```
                    <input
type="checkbox"
name="occlusalcomposite" value="16"
id="compoocclusal16"
onclick="drawCompoocclusal()" <c:if
test="${fn:contains(composite.occlusalcom
posite,'16')}">checked="yes"</c:if>/>Occl
usal<br/><br/>
                    </div>



                    <input
type="checkbox" name="glassionomer"
value="16" id="glassionomer16"
onclick="showGlassionomer()" <c:if
test="${fn:contains(chart.glassionomer,'16'
)}">checked="yes"</c:if>/>Glass Ionomer
<br/>
                    <div
id="glass_surfaces16"
style="display:none;">

              &
nbsp;<input type="checkbox"
name="distalglass" value="16"
id="glassdistal16"
onclick="drawGlassdistal()" <c:if
test="${fn:contains(glass.distalglass,'16')}"
>checked="yes"</c:if>/>Distal
                    <input
type="checkbox" name="buccalglass"
value="16" id="glassbuccal16"
onclick="drawGlassbuccal()" <c:if
test="${fn:contains(glass.buccalglass,'16')}
">checked="yes"</c:if>/>Buccal
                    <input
type="checkbox" name="mesialglass"
value="16" id="glassmesial16"
onclick="drawGlassmesial()" <c:if
test="${fn:contains(glass.mesialglass,'16')}
">checked="yes"</c:if>/>Mesial
                    <input
type="checkbox" name="lingualglass"
value="16" id="glasslingual16"
onclick="drawGlasslingual()" <c:if
test="${fn:contains(glass.lingualglass,'16')}
">checked="yes"</c:if>/>Lingual
                    <input
type="checkbox" name="occlusalglass"
value="16" id="glassocclusal16"
onclick="drawGlassocclusal()" <c:if
test="${fn:contains(glass.occlusalglass,'16')
}">checked="yes"</c:if>/>Occlusal<br/><
br/>
                    </div>

                    <input
type="checkbox" name="tempfilling"
value="16" id="tempfilling16"
onclick="showTempfilling()" <c:if
test="${fn:contains(chart.tempfilling,'16')}
">checked="yes"</c:if>/>Temporary
Filling <br/>
                    <div
id="filling_surfaces16"
style="display:none;">

              &
nbsp;<input type="checkbox"
name="distalfilling" value="16"
id="fillingdistal16"
onclick="drawFillingdistal()" <c:if
test="${fn:contains(filling.distalfilling,'16')
}">checked="yes"</c:if>/>Distal
                    <input
type="checkbox" name="buccalfilling"
value="16" id="fillingbuccal16"
onclick="drawFillingbuccal()" <c:if
test="${fn:contains(filling.buccalfilling,'16'
)}">checked="yes"</c:if>/>Buccal
                    <input
type="checkbox" name="mesialfilling"
value="16" id="fillingmesial16"
onclick="drawFillingmesial()" <c:if
test="${fn:contains(filling.mesialfilling,'16'
)}">checked="yes"</c:if>/>Mesial
                    <input
type="checkbox" name="lingualfilling"
value="16" id="fillinglingual16"
onclick="drawFillinglingual()" <c:if
test="${fn:contains(filling.lingualfilling,'16
')}">checked="yes"</c:if>/>Lingual
                    <input
type="checkbox" name="occlusalfilling"
value="16" id="fillingocclusal16"
onclick="drawFillingocclusal()" <c:if
test="${fn:contains(filling.occlusalfilling,'1
6')}">checked="yes"</c:if>/>Occlusal
                    </div>

                    <table>
                    <tr>

          <td><input type="checkbox"
name="extrusion" id="extrusion16"
value="16" onclick="drawExtrusion()"
<c:if
test="${fn:contains(chart.extrusion,'16')}">
checked="yes"</c:if>/></td>

          <td>Extrusion</td>

          <td><input type="checkbox"
name="intrusion" id="intrusion16"
value="16" onclick="drawIntrusion()" <c:if
test="${fn:contains(chart.intrusion,'16')}">
checked="yes"</c:if>/></td>

          <td>Intrusion</td>

          <td><input type="checkbox"
name="mesialdrift" id="mesialdrift16"
value="16" onclick="drawMesialdrift()"
<c:if
test="${fn:contains(chart.mesialdrift,'16')}"
>checked="yes"</c:if>/></td>

          <td>Mesial Drifting
Rotation</td>

          <td><input type="checkbox"
name="distaldrift" id="distaldrift16"
value="16" onclick="drawDistaldrift()"
<c:if
test="${fn:contains(chart.distaldrift,'16')}"
>checked="yes"</c:if>/></td>

          <td>Distal Drifting
Rotation</td>
                    </tr><br/>
                    <tr>

          <td><input type="checkbox"
name="rotation" id="rotation16"
value="16" onclick="drawRotation()" <c:if
test="${fn:contains(chart.rotation,'16')}">c
hecked="yes"</c:if>/></td>

          <td>Rotation</td>

          <td><input type="checkbox"
name="postcorecrown"
id="postcorecrown16" value="16"
onclick="drawPostcorecrown()" <c:if
test="${fn:contains(chart.postcorecrown,'1
6')}">checked="yes"</c:if>/></td>

          <td>Post Core Crown</td>

          <td><input type="checkbox"
name="rootcanal" value="16"
id="rootcanal16"
onclick="drawRootcanal()" <c:if
test="${fn:contains(chart.rootcanal,'16')}">
checked="yes"</c:if>/></td>

          <td>Root Canal
Treatment</td>

          <td><input type="checkbox"
name="pitandfissure" value="16"
id="pitfissure16"
onclick="drawPitfissure()" <c:if
test="${fn:contains(chart.pitandfissure,'16')
}">checked="yes"</c:if>/></td>
                    <td>Pit
and Fissure Sealants</td>
                    </tr><br/>
                    <tr>

          <td><input type="checkbox"
name="extracted" id="extracted16"
value="16" onclick="drawExtracted()"
<c:if
test="${fn:contains(chart.extracted,'16')}">
checked="yes"</c:if>/></td>

          <td>Extracted</td>

          <td><input type="checkbox"
name="missing" id="missing16"
value="16" onclick="drawMissing()" <c:if
test="${fn:contains(chart.missing,'16')}">c
hecked="yes"</c:if>/></td>

          <td>Missing</td>

          <td><input type="checkbox"
name="unerupted" id="unerupted16"
value="16" onclick="drawUnerupted()"
<c:if
test="${fn:contains(chart.unerupted,'16')}"
>checked="yes"</c:if>/></td>

          <td>Unerupted</td>

          <td><input type="checkbox"
name="impacted" id="impacted16"
value="16" onclick="drawImpacted()"
<c:if
test="${fn:contains(chart.impacted,'16')}">
checked="yes"</c:if>/></td>

          <td>Impacted</td>
                    </tr><br/>
                    <tr>

          <td><input type="checkbox"
name="porcelainfused"
id="porcelainfused16" value="16"
onclick="drawPorcelainfused()" <c:if
```

```
test="${fn:contains(chart.porcelainfused,'16')}">checked="yes"</c:if>/></td>

		<td>Porcelain Fused to Metal</td>

		<td><input type="checkbox" name="acryliccrown" id="acryliccrown16" value="16" onclick="drawAcryliccrown()" <c:if test="${fn:contains(chart.acryliccrown,'16')}">checked="yes"</c:if>/></td>

		<td>Acrylic Crown</td>

		<td><input type="checkbox" name="metalcrown" id="metalcrown16" value="16" onclick="drawMetalcrown()" <c:if test="${fn:contains(chart.metalcrown,'16')}">checked="yes"</c:if>/></td>

		<td>Metal Crown</td>

		<td><input type="checkbox" name="porcelaincrown" id="porcelaincrown16" value="16" onclick="drawPorcelaincrown()" <c:if test="${fn:contains(chart.porcelaincrown,'16')}">checked="yes"</c:if>/></td>

		<td>Porcelain Crown</td>
			</tr><br/>
			<tr>

		<td><input type="checkbox" name="removablepartial" value="16" id="removablepartial16" onclick="drawRemovable()" <c:if test="${fn:contains(chart.removablepartial,'16')}">checked="yes"</c:if>/></td>

		<td>Removable Partial Denture</td>

		<td><input type="checkbox" name="fixedbridge" id="fixedbridge16" value="16" onclick="drawFixedbridge()" <c:if test="${fn:contains(chart.fixedbridge,'16')}">checked="yes"</c:if>/></td>

		<td>Fixed Bridge</td>

		<td><input type="checkbox" name="restorable" id="restorable16" value="16" onclick="drawRestorable()" <c:if test="${fn:contains(chart.restorable,'16')}">checked="yes"</c:if>/></td>

		<td>Restorable</td>

		<td><input type="checkbox" name="nonrestorable" id="nonrestorable16" value="16" onclick="drawNonrestorable()" <c:if test="${fn:contains(chart.nonrestorable,'16')}">checked="yes"</c:if>/></td>

		<td>Non-restorable</td>
			</tr>
			</table>
			<hr>
			<br/><br/>
			<b>Services needed</b><br/>
			<hr>
			<u>Operative Dentistry</u><br/>
			<input type="checkbox" name="class1" value="16" onclick="drawExtracted()" <c:if test="${fn:contains(services.class1,'16')}">checked="yes"</c:if>>Class I
			<input type="checkbox" name="class2" value="16" <c:if test="${fn:contains(services.class2,'16')}">checked="yes"</c:if>>Class II
			<input type="checkbox" name="class3" value="16" <c:if test="${fn:contains(services.class3,'16')}">checked="yes"</c:if>>Class III
			<input type="checkbox" name="class4" value="16" <c:if test="${fn:contains(services.class4,'16')}">checked="yes"</c:if>>Class IV
			<input type="checkbox" name="class5" value="16" <c:if test="${fn:contains(services.class5,'16')}">checked="yes"</c:if>>Class V
			<input type="checkbox" name="onlay" value="16" <c:if test="${fn:contains(services.onlay,'16')}">checked="yes"</c:if>>Onlay
			<br/><br/>
			<u> Surgery </u><br/>
			<input type="checkbox" name="extraction" value="16" <c:if test="${fn:contains(services.extraction,'16')}">checked="yes"</c:if>>Extraction
			<input type="checkbox" name="odontectomy" value="16" <c:if test="${fn:contains(services.odontectomy,'16')}">checked="yes"</c:if>>Odontectomy
			<input type="checkbox" name="specialcase" value="16" <c:if test="${fn:contains(services.specialcase,'16')}">checked="yes"</c:if>>Special Case
			<br/><br/>
			<u> Emergency Treatment </u><br/>
			<input type="checkbox" name="pulpsedation" value="16" <c:if test="${fn:contains(services.pulpsedation,'16')}">checked="yes"</c:if>>Pulp Sedation
			<input type="checkbox" name="crownrecementation" value="16" <c:if test="${fn:contains(services.crownrecementation,'16')}">checked="yes"</c:if>>Recementation of crowns
			<input type="checkbox" name="fillingservice" value="16" <c:if test="${fn:contains(services.fillingservice,'16')}">checked="yes"</c:if>>Temporary fillings
			<br/><br/>
			<u> Fixed Partial Dentures </u><br/>
			<input type="checkbox" name="laminated" value="16" <c:if test="${fn:contains(services.laminated,'16')}">checked="yes"</c:if>>Laminated
			<input type="checkbox" name="singlecrown" value="16" <c:if test="${fn:contains(services.singlecrown,'16')}">checked="yes"</c:if>>Single Crown
			<input type="checkbox" name="bridgeservice" value="16" <c:if test="${fn:contains(services.bridgeservice,'16')}">checked="yes"</c:if>>Bridge
			<br/><br/>
			<u> Endodontics </u><br/>
			<input type="checkbox" name="anterior" value="16" <c:if test="${fn:contains(services.anterior,'16')}">checked="yes"</c:if>>Anterior
			<input type="checkbox" name="posterior" value="16" <c:if test="${fn:contains(services.posterior,'16')}">checked="yes"</c:if>>Posterior
			<input type="checkbox" name="otherendodontics" value="16" <c:if test="${fn:contains(services.otherendodontics,'16')}">checked="yes"</c:if>>Others (Endosurgery, Bleaching, etc.)
			<br/><br/>
			<hr>
			<a href = "javascript:void(0)" onclick = "document.getElementById('light16').style.display='none';document.getElementById('fade16').style.display='none'">Submit</a>
		</div>
			<div id="fade16" class="black_overlay"></div>
			</div>
	</font>
	</div>

	<div id="light15" class="white_content">
			<font size = "2">
			<b>Tooth 15 </b><br/><br/><br/>
			<b>Dental Status</b><br/>
			<hr>
			<input type="checkbox" name="caries" value="15" id="caries15" <c:if test="${fn:contains(chart.caries,'15')}">checked="yes"</c:if> onclick="showCaries()">Caries<br/>
			<div id="caries_surfaces15" style="display:none;">

		    &
```

```
nbsp;<input type="checkbox"
name="distalcaries" value="15"
id="distal15" onclick="drawDistal()" <c:if
test="${fn:contains(caries.distalcaries,'15')
}">checked="yes"</c:if>/>Distal
                        <input
type="checkbox" name="buccalcaries"
value="15" id="buccal15"
onclick="drawBuccal()" <c:if
test="${fn:contains(caries.buccalcaries,'15')
}">checked="yes"</c:if>/>Buccal
                        <input
type="checkbox" name="mesialcaries"
value="15" id="mesial15"
onclick="drawMesial()" <c:if
test="${fn:contains(caries.mesialcaries,'15')
}">checked="yes"</c:if>/>Mesial
                        <input
type="checkbox" name="lingualcaries"
value="15" id="lingual15"
onclick="drawLingual()" <c:if
test="${fn:contains(caries.lingualcaries,'15'
)}">checked="yes"</c:if>/>Lingual
                        <input
type="checkbox" name="occlusalcaries"
value="15" id="occlusal15"
onclick="drawOcclusal()" <c:if
test="${fn:contains(caries.occlusalcaries,'1
5')}">checked="yes"</c:if>/>Occlusal<br/
><br/>
                    </div>

                    <input
type="checkbox" name="recurrentcaries"
value="15" id="recurrentcaries15" <c:if
test="${fn:contains(chart.recurrentcaries,'1
5')}">checked="yes"</c:if>
onclick="showRecurrent()">Recurrent
Caries<br/>
                    <div
id="recurrent_surfaces15"
style="display:none;">

                    &
nbsp;<input type="checkbox"
name="distalrecurrent" value="15"
id="redistal15" onclick="drawRedistal()"
<c:if
test="${fn:contains(recurrent.distalrecurren
t,'15')}">checked="yes"</c:if>/>Distal
                        <input
type="checkbox" name="buccalrecurrent"
value="15" id="rebuccal15"
onclick="drawRebuccal()" <c:if
test="${fn:contains(recurrent.buccalrecurre
nt,'15')}">checked="yes"</c:if>/>Buccal
                        <input
type="checkbox" name="mesialrecurrent"
value="15" id="remesial15"
onclick="drawRemesial()" <c:if
test="${fn:contains(recurrent.mesialrecurre
nt,'15')}">checked="yes"</c:if>/>Mesial
                        <input
type="checkbox" name="lingualrecurrent"
value="15" id="relingual15"
onclick="drawRelingual()" <c:if
test="${fn:contains(recurrent.lingualrecurre
nt,'15')}">checked="yes"</c:if>/>Lingual
                        <input
type="checkbox"
name="occlusalrecurrent" value="15"
id="reocclusal15"
onclick="drawReocclusal()" <c:if
test="${fn:contains(recurrent.occlusalrecur
rent,'15')}">checked="yes"</c:if>/>Occlus
al<br/><br/>
                    </div>

                    <input
type="checkbox" name="amalgam"
value="15" id="amalgam15"
onclick="showAmalgam()" <c:if
test="${fn:contains(chart.amalgam,'15')}">
checked="yes"</c:if>/>Amalgam<br/>
                    <div
id="amalgam_surfaces15"
style="display:none;">

                    &
nbsp;<input type="checkbox"
name="distalamalgam" value="15"
id="amaldistal15"
onclick="drawAmaldistal()"  <c:if
test="${fn:contains(amalgam.distalamalga
m,'15')}">checked="yes"</c:if>/>Distal
                        <input
type="checkbox" name="buccalamalgam"
value="15" id="amalbuccal15"
onclick="drawAmalbuccal()" <c:if
test="${fn:contains(amalgam.buccalamalga
m,'15')}">checked="yes"</c:if>/>Buccal
                        <input
type="checkbox" name="mesialamalgam"
value="15" id="amalmesial15"
onclick="drawAmalmesial()" <c:if
test="${fn:contains(amalgam.mesialamalga
m,'15')}">checked="yes"</c:if>/>Mesial
                        <input
type="checkbox" name="lingualamalgam"
value="15" id="amallingual15"
onclick="drawAmallingual()" <c:if
test="${fn:contains(amalgam.lingualamalg
am,'15')}">checked="yes"</c:if>/>Lingual
                        <input
type="checkbox"
name="occlusalamalgam" value="15"
id="amalocclusal15"
onclick="drawAmalocclusal()" <c:if
test="${fn:contains(amalgam.occlusalamal
gam,'15')}">checked="yes"</c:if>/>Occlus
al<br/><br/>
                    </div>

                    <input
type="checkbox" name="composite"
value="15" id="composite15"
onclick="showComposite()" <c:if
test="${fn:contains(chart.composite,'15')}"
>checked="yes"</c:if>/>Composite<br/>

                    <div
id="composite_surfaces15"
style="display:none;">

                    &
nbsp;<input type="checkbox"
name="distalcomposite" value="15"
id="compodistal15"
onclick="drawCompodistal()" <c:if
test="${fn:contains(composite.distalcompo
site,'15')}">checked="yes"</c:if>/>Distal
                        <input
type="checkbox" name="buccalcomposite"
value="15" id="compobuccal15"
onclick="drawCompobuccal()" <c:if
test="${fn:contains(composite.buccalcomp
osite,'15')}">checked="yes"</c:if>/>Bucca
l
                        <input
type="checkbox" name="mesialcomposite"
value="15" id="compomesial15"
onclick="drawCompomesial()" <c:if
test="${fn:contains(composite.mesialcomp
osite,'15')}">checked="yes"</c:if>/>Mesial
                        <input
type="checkbox"
name="lingualcomposite" value="15"
id="compolingual15"
onclick="drawCompolingual()" <c:if
test="${fn:contains(composite.lingualcomp
osite,'15')}">checked="yes"</c:if>/>Lingu
al
                        <input
type="checkbox"
name="occlusalcomposite" value="15"
id="compoocclusal15"
onclick="drawCompoocclusal()" <c:if
test="${fn:contains(composite.occlusalcom
posite,'15')}">checked="yes"</c:if>/>Occl
usal<br/><br/>
                    </div>


                    <input
type="checkbox" name="glassionomer"
value="15" id="glassionomer15"
onclick="showGlassionomer()" <c:if
test="${fn:contains(chart.glassionomer,'15'
)}">checked="yes"</c:if>/>Glass Ionomer
<br/>
                    <div
id="glass_surfaces15"
style="display:none;">

                    &
nbsp;<input type="checkbox"
name="distalglass" value="15"
id="glassdistal15"
onclick="drawGlassdistal()" <c:if
test="${fn:contains(glass.distalglass,'15')}"
>checked="yes"</c:if>/>Distal
                        <input
type="checkbox" name="buccalglass"
value="15" id="glassbuccal15"
onclick="drawGlassbuccal()" <c:if
test="${fn:contains(glass.buccalglass,'15')}
">checked="yes"</c:if>/>Buccal
                        <input
type="checkbox" name="mesialglass"
value="15" id="glassmesial15"
onclick="drawGlassmesial()" <c:if
test="${fn:contains(glass.mesialglass,'15')}
">checked="yes"</c:if>/>Mesial
                        <input
type="checkbox" name="lingualglass"
value="15" id="glasslingual15"
onclick="drawGlasslingual()" <c:if
test="${fn:contains(glass.lingualglass,'15')}
">checked="yes"</c:if>/>Lingual
                        <input
type="checkbox" name="occlusalglass"
value="15" id="glassocclusal15"
onclick="drawGlassocclusal()" <c:if
test="${fn:contains(glass.occlusalglass,'15')
}">checked="yes"</c:if>/>Occlusal<br/><
br/>
                    </div>

                    <input
type="checkbox" name="tempfilling"
value="15" id="tempfilling15"
onclick="showTempfilling()" <c:if
```

```
test="${fn:contains(chart.tempfilling,'15')}
">checked="yes"</c:if>/>Temporary
Filling <br/>
                        <div
id="filling_surfaces15"
style="display:none;">

                &
nbsp;<input type="checkbox"
name="distalfilling" value="15"
id="fillingdistal15"
onclick="drawFillingdistal()" <c:if
test="${fn:contains(filling.distalfilling,'15')
}">checked="yes"</c:if>/>Distal
                        <input
type="checkbox" name="buccalfilling"
value="15" id="fillingbuccal15"
onclick="drawFillingbuccal()" <c:if
test="${fn:contains(filling.buccalfilling,'15'
)}">checked="yes"</c:if>/>Buccal
                        <input
type="checkbox" name="mesialfilling"
value="15" id="fillingmesial15"
onclick="drawFillingmesial()" <c:if
test="${fn:contains(filling.mesialfilling,'15'
)}">checked="yes"</c:if>/>Mesial
                        <input
type="checkbox" name="lingualfilling"
value="15" id="fillinglingual15"
onclick="drawFillinglingual()" <c:if
test="${fn:contains(filling.lingualfilling,'15
')}">checked="yes"</c:if>/>Lingual
                        <input
type="checkbox" name="occlusalfilling"
value="15" id="fillingocclusal15"
onclick="drawFillingocclusal()" <c:if
test="${fn:contains(filling.occlusalfilling,'1
5')}">checked="yes"</c:if>/>Occlusal
                        </div>

                        <table>
                        <tr>

            <td><input type="checkbox"
name="extrusion" id="extrusion15"
value="15" onclick="drawExtrusion()"
<c:if
test="${fn:contains(chart.extrusion,'15')}">
checked="yes"</c:if>/></td>

            <td>Extrusion</td>

            <td><input type="checkbox"
name="intrusion" id="intrusion15"
value="15" onclick="drawIntrusion()" <c:if
test="${fn:contains(chart.intrusion,'15')}">
checked="yes"</c:if>/></td>

            <td>Intrusion</td>

            <td><input type="checkbox"
name="mesialdrift" id="mesialdrift15"
value="15" onclick="drawMesialdrift()"
<c:if
test="${fn:contains(chart.mesialdrift,'15')}"
>checked="yes"</c:if>/></td>

            <td>Mesial Drifting
Rotation</td>

            <td><input type="checkbox"
name="distaldrift" id="distaldrift15"
value="15" onclick="drawDistaldrift()"
<c:if
test="${fn:contains(chart.distaldrift,'15')}"
>checked="yes"</c:if>/></td>

            <td>Distal Drifting
Rotation</td>
                        </tr><br/>
                        <tr>

            <td><input type="checkbox"
name="rotation" id="rotation15"
value="15" onclick="drawRotation()" <c:if
test="${fn:contains(chart.rotation,'15')}">c
hecked="yes"</c:if>/></td>

            <td>Rotation</td>

            <td><input type="checkbox"
name="postcorecrown"
id="postcorecrown15" value="15"
onclick="drawPostcorecrown()" <c:if
test="${fn:contains(chart.postcorecrown,'1
5')}">checked="yes"</c:if>/></td>

            <td>Post Core Crown</td>

            <td><input type="checkbox"
name="rootcanal" value="15"
id="rootcanal15"
onclick="drawRootcanal()" <c:if
test="${fn:contains(chart.rootcanal,'15')}">
checked="yes"</c:if>/></td>

            <td>Root Canal
Treatment</td>

            <td><input type="checkbox"
name="pitandfissure" value="15"
id="pitfissure15"
onclick="drawPitfissure()" <c:if
test="${fn:contains(chart.pitandfissure,'15')
}">checked="yes"</c:if>/></td>
                                    <td>Pit
and Fissure Sealants</td>
                        </tr><br/>
                        <tr>

            <td><input type="checkbox"
name="extracted" id="extracted15"
value="15" onclick="drawExtracted()"
<c:if
test="${fn:contains(chart.extracted,'15')}">
checked="yes"</c:if>/></td>

            <td>Extracted</td>

            <td><input type="checkbox"
name="missing" id="missing15"
value="15" onclick="drawMissing()" <c:if
test="${fn:contains(chart.missing,'15')}">c
hecked="yes"</c:if>/></td>

            <td>Missing</td>

            <td><input type="checkbox"
name="unerupted" id="unerupted15"
value="15" onclick="drawUnerupted()"
<c:if
test="${fn:contains(chart.unerupted,'15')}"
>checked="yes"</c:if>/></td>

            <td>Unerupted</td>

            <td><input type="checkbox"
name="impacted" id="impacted15"
value="15" onclick="drawImpacted()"
<c:if
test="${fn:contains(chart.impacted,'15')}">
checked="yes"</c:if>/></td>

            <td>Impacted</td>
                        </tr><br/>
                        <tr>

            <td><input type="checkbox"
name="porcelainfused"
id="porcelainfused15" value="15"
onclick="drawPorcelainfused()" <c:if
test="${fn:contains(chart.porcelainfused,'1
5')}">checked="yes"</c:if>/></td>

            <td>Porcelain Fused to
Metal</td>

            <td><input type="checkbox"
name="acryliccrown" id="acryliccrown15"
value="15" onclick="drawAcryliccrown()"
<c:if
test="${fn:contains(chart.acryliccrown,'15')
}">checked="yes"</c:if>/></td>

            <td>Acrylic Crown</td>

            <td><input type="checkbox"
name="metalcrown" id="metalcrown15"
value="15" onclick="drawMetalcrown()"
<c:if
test="${fn:contains(chart.metalcrown,'15')}
">checked="yes"</c:if>/></td>

            <td>Metal Crown</td>

            <td><input type="checkbox"
name="porcelaincrown"
id="porcelaincrown15" value="15"
onclick="drawPorcelaincrown()" <c:if
test="${fn:contains(chart.porcelaincrown,'1
5')}">checked="yes"</c:if>/></td>

            <td>Porcelain Crown</td>
                        </tr><br/>
                        <tr>

            <td><input type="checkbox"
name="removablepartial" value="15"
id="removablepartial15"
onclick="drawRemovable()" <c:if
test="${fn:contains(chart.removablepartial,'
15')}">checked="yes"</c:if>/></td>

            <td>Removable Partial
Denture</td>

            <td><input type="checkbox"
name="fixedbridge" id="fixedbridge15"
value="15" onclick="drawFixedbridge()"
<c:if
test="${fn:contains(chart.fixedbridge,'15')}
">checked="yes"</c:if>/></td>

            <td>Fixed Bridge</td>

            <td><input type="checkbox"
name="restorable" id="restorable15"
value="15" onclick="drawRestorable()"
<c:if
test="${fn:contains(chart.restorable,'15')}"
>checked="yes"</c:if>/></td>
```

```
<td>Restorable</td>

<td><input type="checkbox"
name="nonrestorable"
id="nonrestorable15" value="15"
onclick="drawNonrestorable()" <c:if
test="${fn:contains(chart.nonrestorable,'15'
)}">checked="yes"</c:if>/></td>

<td>Non-restorable</td>
</tr>
</table>
<hr>
<br/><br/>
<b>Services
needed</b><br/>
<hr>
<u>Operative
Dentistry</u><br/>
<input
type="checkbox" name="class1"
value="15" onclick="drawExtracted()"
<c:if
test="${fn:contains(services.class1,'15')}">
checked="yes"</c:if>>Class I
<input
type="checkbox" name="class2"
value="15" <c:if
test="${fn:contains(services.class2,'15')}">
checked="yes"</c:if>>Class II
<input
type="checkbox" name="class3"
value="15" <c:if
test="${fn:contains(services.class3,'15')}">
checked="yes"</c:if>>Class III
<input
type="checkbox" name="class4"
value="15" <c:if
test="${fn:contains(services.class4,'15')}">
checked="yes"</c:if>>Class IV
<input
type="checkbox" name="class5"
value="15" <c:if
test="${fn:contains(services.class5,'15')}">
checked="yes"</c:if>>Class V
<input
type="checkbox" name="onlay"
value="15" <c:if
test="${fn:contains(services.onlay,'15')}">
checked="yes"</c:if>>Onlay
<br/><br/>
<u> Surgery
</u><br/>
<input
type="checkbox" name="extraction"
value="15" <c:if
test="${fn:contains(services.extraction,'15')
}">checked="yes"</c:if>>Extraction
<input
type="checkbox" name="odontectomy"
value="15" <c:if
test="${fn:contains(services.odontectomy,'
15')}">checked="yes"</c:if>>Odontectom
y
<input
type="checkbox" name="specialcase"
value="15" <c:if
test="${fn:contains(services.specialcase,'15
')}">checked="yes"</c:if>>Special Case
<br/><br/>
<u> Emergency
Treatment </u><br/>
<input
type="checkbox" name="pulpsedation"
value="15" <c:if
test="${fn:contains(services.pulpsedation,'
15')}">checked="yes"</c:if>>Pulp
Sedation
<input
type="checkbox"
name="crownrecementation" value="15"
<c:if
test="${fn:contains(services.crownrecemen
tation,'15')}">checked="yes"</c:if>>Rece
mentation of crowns
<input
type="checkbox" name="fillingservice"
value="15" <c:if
test="${fn:contains(services.fillingservice,'
15')}">checked="yes"</c:if>>Temporary
fillings
<br/><br/>
<u> Fixed Partial
Dentures </u><br/>
<input
type="checkbox" name="laminated"
value="15" <c:if
test="${fn:contains(services.laminated,'15')
}">checked="yes"</c:if>>Laminated
<input
type="checkbox" name="singlecrown"
value="15" <c:if
test="${fn:contains(services.singlecrown,'1
5')}">checked="yes"</c:if>>Single Crown
<input
type="checkbox" name="bridgeservice"
value="15" <c:if
test="${fn:contains(services.bridgeservice,'
15')}">checked="yes"</c:if>>Bridge
<br/><br/>
<u> Endodontics
</u><br/>
<input
type="checkbox" name="anterior"
value="15" <c:if
test="${fn:contains(services.anterior,'15')}"
>checked="yes"</c:if>>Anterior
<input
type="checkbox" name="posterior"
value="15" <c:if
test="${fn:contains(services.posterior,'15')}
">checked="yes"</c:if>>Posterior
<input
type="checkbox"
name="otherendodontics" value="15" <c:if
test="${fn:contains(services.otherendodont
ics,'15')}">checked="yes"</c:if>>Others
(Endosurgery, Bleaching, etc.)
<br/><br/>
<hr>
<a href =
"javascript:void(0)" onclick =
"document.getElementById('light15').style.
display='none';document.getElementById('
fade15').style.display='none'">Submit</a>
</div>
<div id="fade15"
class="black_overlay"></div>
</div>
</font>
</div>

<div id="light14"
class="white_content">
<font size = "2">
<b>Tooth 14
</b><br/><br/><br/>
<b>Dental
Status</b><br/>
<hr>
<input
type="checkbox" name="caries"
value="14" id="caries14" <c:if
test="${fn:contains(chart.caries,'14')}">che
cked="yes"</c:if>
onclick="showCaries()">Caries<br/>
<div
id="caries_surfaces14"
style="display:none;">

    &
nbsp;<input type="checkbox"
name="distalcaries" value="14"
id="distal14" onclick="drawDistal()" <c:if
test="${fn:contains(caries.distalcaries,'14')
}">checked="yes"</c:if>/>Distal
<input
type="checkbox" name="buccalcaries"
value="14" id="buccal14"
onclick="drawBuccal()" <c:if
test="${fn:contains(caries.buccalcaries,'14')
}">checked="yes"</c:if>/>Buccal
<input
type="checkbox" name="mesialcaries"
value="14" id="mesial14"
onclick="drawMesial()" <c:if
test="${fn:contains(caries.mesialcaries,'14')
}">checked="yes"</c:if>/>Mesial
<input
type="checkbox" name="lingualcaries"
value="14" id="lingual14"
onclick="drawLingual()" <c:if
test="${fn:contains(caries.lingualcaries,'14'
)}">checked="yes"</c:if>/>Lingual
<input
type="checkbox" name="occlusalcaries"
value="14" id="occlusal14"
onclick="drawOcclusal()" <c:if
test="${fn:contains(caries.occlusalcaries,'1
4')}">checked="yes"</c:if>/>Occlusal<br/
><br/>
</div>

<input
type="checkbox" name="recurrentcaries"
value="14" id="recurrentcaries14" <c:if
test="${fn:contains(chart.recurrentcaries,'1
4')}">checked="yes"</c:if>
onclick="showRecurrent()">Recurrent
Caries<br/>
<div
id="recurrent_surfaces14"
style="display:none;">

    &
nbsp;<input type="checkbox"
name="distalrecurrent" value="14"
id="redistal14" onclick="drawRedistal()"
<c:if
test="${fn:contains(recurrent.distalrecurren
t,'14')}">checked="yes"</c:if>/>Distal
<input
type="checkbox" name="buccalrecurrent"
value="14" id="rebuccal14"
onclick="drawRebuccal()" <c:if
test="${fn:contains(recurrent.buccalrecurre
nt,'14')}">checked="yes"</c:if>/>Buccal
<input
type="checkbox" name="mesialrecurrent"
```

```
value="14" id="remesial14"
onclick="drawRemesial()" <c:if
test="${fn:contains(recurrent.mesialrecurre
nt,'14')}">checked="yes"</c:if>/>Mesial
                        <input
type="checkbox" name="lingualrecurrent"
value="14" id="relingual14"
onclick="drawRelingual()" <c:if
test="${fn:contains(recurrent.lingualrecurre
nt,'14')}">checked="yes"</c:if>/>Lingual
                        <input
type="checkbox"
name="occlusalrecurrent" value="14"
id="reocclusal14"
onclick="drawReocclusal()" <c:if
test="${fn:contains(recurrent.occlusalrecur
rent,'14')}">checked="yes"</c:if>/>Occlus
al<br/><br/>
                    </div>

                    <input
type="checkbox" name="amalgam"
value="14" id="amalgam14"
onclick="showAmalgam()" <c:if
test="${fn:contains(chart.amalgam,'14')}">
checked="yes"</c:if>/>Amalgam<br/>
                    <div
id="amalgam_surfaces14"
style="display:none;">

                &
nbsp;<input type="checkbox"
name="distalamalgam" value="14"
id="amaldistal14"
onclick="drawAmaldistal()"  <c:if
test="${fn:contains(amalgam.distalamalga
m,'14')}">checked="yes"</c:if>/>Distal
                        <input
type="checkbox" name="buccalamalgam"
value="14" id="amalbuccal14"
onclick="drawAmalbuccal()" <c:if
test="${fn:contains(amalgam.buccalamalga
m,'14')}">checked="yes"</c:if>/>Buccal
                        <input
type="checkbox" name="mesialamalgam"
value="14" id="amalmesial14"
onclick="drawAmalmesial()" <c:if
test="${fn:contains(amalgam.mesialamalga
m,'14')}">checked="yes"</c:if>/>Mesial
                        <input
type="checkbox" name="lingualamalgam"
value="14" id="amallingual14"
onclick="drawAmallingual()" <c:if
test="${fn:contains(amalgam.linguamalg
am,'14')}">checked="yes"</c:if>/>Lingual
                        <input
type="checkbox"
name="occlusalamalgam" value="14"
id="amalocclusal14"
onclick="drawAmalocclusal()" <c:if
test="${fn:contains(amalgam.occlusalamal
gam,'14')}">checked="yes"</c:if>/>Occlus
al<br/><br/>
                    </div>

                    <input
type="checkbox" name="composite"
value="14" id="composite14"
onclick="showComposite()" <c:if
test="${fn:contains(chart.composite,'14')}"
>checked="yes"</c:if>/>Composite<br/>
                    <div
id="composite_surfaces14"
style="display:none;">

                &
nbsp;<input type="checkbox"
name="distalcomposite" value="14"
id="compodistal14"
onclick="drawCompodistal()" <c:if
test="${fn:contains(composite.distalcompo
site,'14')}">checked="yes"</c:if>/>Distal
                        <input
type="checkbox" name="buccalcomposite"
value="14" id="compobuccal14"
onclick="drawCompobuccal()" <c:if
test="${fn:contains(composite.buccalcomp
osite,'14')}">checked="yes"</c:if>/>Bucca
l
                        <input
type="checkbox" name="mesialcomposite"
value="14" id="compomesial14"
onclick="drawCompomesial()" <c:if
test="${fn:contains(composite.mesialcomp
osite,'14')}">checked="yes"</c:if>/>Mesial
                        <input
type="checkbox"
name="lingualcomposite" value="14"
id="compolingual14"
onclick="drawCompolingual()" <c:if
test="${fn:contains(composite.lingualcomp
osite,'14')}">checked="yes"</c:if>/>Lingu
al
                        <input
type="checkbox"
name="occlusalcomposite" value="14"
id="compoocclusal14"
onclick="drawCompoocclusal()" <c:if
test="${fn:contains(composite.occlusalcom
posite,'14')}">checked="yes"</c:if>/>Occl
usal<br/><br/>
                    </div>


                    <input
type="checkbox" name="glassionomer"
value="14" id="glassionomer14"
onclick="showGlassionomer()" <c:if
test="${fn:contains(chart.glassionomer,'14'
)}">checked="yes"</c:if>/>Glass Ionomer
<br/>
                    <div
id="glass_surfaces14"
style="display:none;">

                &
nbsp;<input type="checkbox"
name="distalglass" value="14"
id="glassdistal14"
onclick="drawGlassdistal()" <c:if
test="${fn:contains(glass.distalglass,'14')}"
>checked="yes"</c:if>/>Distal
                        <input
type="checkbox" name="buccalglass"
value="14" id="glassbuccal14"
onclick="drawGlassbuccal()" <c:if
test="${fn:contains(glass.buccalglass,'14')}
">checked="yes"</c:if>/>Buccal
                        <input
type="checkbox" name="mesialglass"
value="14" id="glassmesial14"
onclick="drawGlassmesial()" <c:if
test="${fn:contains(glass.mesialglass,'14')}
">checked="yes"</c:if>/>Mesial
                        <input
type="checkbox" name="lingualglass"
value="14" id="glasslingual14"
onclick="drawGlasslingual()" <c:if
test="${fn:contains(glass.lingualglass,'14')}
">checked="yes"</c:if>/>Lingual
                        <input
type="checkbox" name="occlusalglass"
value="14" id="glassocclusal14"
onclick="drawGlassocclusal()" <c:if
test="${fn:contains(glass.occlusalglass,'14')
}">checked="yes"</c:if>/>Occlusal<br/><
br/>
                    </div>

                    <input
type="checkbox" name="tempfilling"
value="14" id="tempfilling14"
onclick="showTempfilling()" <c:if
test="${fn:contains(chart.tempfilling,'14')}
">checked="yes"</c:if>/>Temporary
Filling <br/>
                    <div
id="filling_surfaces14"
style="display:none;">

                &
nbsp;<input type="checkbox"
name="distalfilling" value="14"
id="fillingdistal14"
onclick="drawFillingdistal()" <c:if
test="${fn:contains(filling.distalfilling,'14')
}">checked="yes"</c:if>/>Distal
                        <input
type="checkbox" name="buccalfilling"
value="14" id="fillingbuccal14"
onclick="drawFillingbuccal()" <c:if
test="${fn:contains(filling.buccalfilling,'14'
)}">checked="yes"</c:if>/>Buccal
                        <input
type="checkbox" name="mesialfilling"
value="14" id="fillingmesial14"
onclick="drawFillingmesial()" <c:if
test="${fn:contains(filling.mesialfilling,'14'
)}">checked="yes"</c:if>/>Mesial
                        <input
type="checkbox" name="lingualfilling"
value="14" id="fillinglingual14"
onclick="drawFillinglingual()" <c:if
test="${fn:contains(filling.lingualfilling,'14
')}">checked="yes"</c:if>/>Lingual
                        <input
type="checkbox" name="occlusalfilling"
value="14" id="fillingocclusal14"
onclick="drawFillingocclusal()" <c:if
test="${fn:contains(filling.occlusalfilling,'1
4')}">checked="yes"</c:if>/>Occlusal
                    </div>

                    <table>
                    <tr>

            <td><input type="checkbox"
name="extrusion" id="extrusion14"
value="14" onclick="drawExtrusion()"
<c:if
test="${fn:contains(chart.extrusion,'14')}">
checked="yes"</c:if>/></td>

            <td>Extrusion</td>

            <td><input type="checkbox"
name="intrusion" id="intrusion14"
value="14" onclick="drawIntrusion()" <c:if
```

```
test="${fn:contains(chart.intrusion,'14')}">
checked="yes"</c:if>/></td>

            <td>Intrusion</td>

            <td><input type="checkbox"
name="mesialdrift" id="mesialdrift14"
value="14" onclick="drawMesialdrift()"
<c:if
test="${fn:contains(chart.mesialdrift,'14')}"
>checked="yes"</c:if>/></td>

            <td>Mesial Drifting
Rotation</td>

            <td><input type="checkbox"
name="distaldrift" id="distaldrift14"
value="14" onclick="drawDistaldrift()"
<c:if
test="${fn:contains(chart.distaldrift,'14')}"
>checked="yes"</c:if>/></td>

            <td>Distal Drifting
Rotation</td>
                        </tr><br/>
                        <tr>

            <td><input type="checkbox"
name="rotation" id="rotation14"
value="14" onclick="drawRotation()" <c:if
test="${fn:contains(chart.rotation,'14')}">c
hecked="yes"</c:if>/></td>

            <td>Rotation</td>

            <td><input type="checkbox"
name="postcorecrown"
id="postcorecrown14" value="14"
onclick="drawPostcorecrown()" <c:if
test="${fn:contains(chart.postcorecrown,'1
4')}">checked="yes"</c:if>/></td>

            <td>Post Core Crown</td>

            <td><input type="checkbox"
name="rootcanal" value="14"
id="rootcanal14"
onclick="drawRootcanal()" <c:if
test="${fn:contains(chart.rootcanal,'14')}">
checked="yes"</c:if>/></td>

            <td>Root Canal
Treatment</td>

            <td><input type="checkbox"
name="pitandfissure" value="14"
id="pitfissure14"
onclick="drawPitfissure()" <c:if
test="${fn:contains(chart.pitandfissure,'14')
}">checked="yes"</c:if>/></td>
                                    <td>Pit
and Fissure Sealants</td>
                        </tr><br/>
                        <tr>

            <td><input type="checkbox"
name="extracted" id="extracted14"
value="14" onclick="drawExtracted()"
<c:if
test="${fn:contains(chart.extracted,'14')}">
checked="yes"</c:if>/></td>

            <td>Extracted</td>

            <td><input type="checkbox"
name="missing" id="missing14"
value="14" onclick="drawMissing()" <c:if
test="${fn:contains(chart.missing,'14')}">c
hecked="yes"</c:if>/></td>

            <td>Missing</td>

            <td><input type="checkbox"
name="unerupted" id="unerupted14"
value="14" onclick="drawUnerupted()"
<c:if
test="${fn:contains(chart.unerupted,'14')}"
>checked="yes"</c:if>/></td>

            <td>Unerupted</td>

            <td><input type="checkbox"
name="impacted" id="impacted14"
value="14" onclick="drawImpacted()"
<c:if
test="${fn:contains(chart.impacted,'14')}">
checked="yes"</c:if>/></td>

            <td>Impacted</td>
                        </tr><br/>
                        <tr>

            <td><input type="checkbox"
name="porcelainfused"
id="porcelainfused14" value="14"
onclick="drawPorcelainfused()" <c:if
test="${fn:contains(chart.porcelainfused,'1
4')}">checked="yes"</c:if>/></td>

            <td>Porcelain Fused to
Metal</td>

            <td><input type="checkbox"
name="acryliccrown" id="acryliccrown14"
value="14" onclick="drawAcryliccrown()"
<c:if
test="${fn:contains(chart.acryliccrown,'14')
}">checked="yes"</c:if>/></td>

            <td>Acrylic Crown</td>

            <td><input type="checkbox"
name="metalcrown" id="metalcrown14"
value="14" onclick="drawMetalcrown()"
<c:if
test="${fn:contains(chart.metalcrown,'14')}
">checked="yes"</c:if>/></td>

            <td>Metal Crown</td>

            <td><input type="checkbox"
name="porcelaincrown"
id="porcelaincrown14" value="14"
onclick="drawPorcelaincrown()" <c:if
test="${fn:contains(chart.porcelaincrown,'1
4')}">checked="yes"</c:if>/></td>

            <td>Porcelain Crown</td>
                        </tr><br/>
                        <tr>

            <td><input type="checkbox"
name="removablepartial" value="14"
id="removablepartial14"
onclick="drawRemovable()" <c:if
test="${fn:contains(chart.removablepartial,'
14')}">checked="yes"</c:if>/></td>

            <td>Removable Partial
Denture</td>

            <td><input type="checkbox"
name="fixedbridge" id="fixedbridge14"
value="14" onclick="drawFixedbridge()"
<c:if
test="${fn:contains(chart.fixedbridge,'14')}
">checked="yes"</c:if>/></td>

            <td>Fixed Bridge</td>

            <td><input type="checkbox"
name="restorable" id="restorable14"
value="14" onclick="drawRestorable()"
<c:if
test="${fn:contains(chart.restorable,'14')}"
>checked="yes"</c:if>/></td>

            <td>Restorable</td>

            <td><input type="checkbox"
name="nonrestorable"
id="nonrestorable14" value="14"
onclick="drawNonrestorable()" <c:if
test="${fn:contains(chart.nonrestorable,'14'
)}">checked="yes"</c:if>/></td>

            <td>Non-restorable</td>
                        </tr>
                        </table>
                        <hr>
                        <br/><br/>
                        <b>Services
needed</b><br/>
                        <hr>
                        <u>Operative
Dentistry</u><br/>
                        <input
type="checkbox" name="class1"
value="14" onclick="drawExtracted()"
<c:if
test="${fn:contains(services.class1,'14')}">
checked="yes"</c:if>>Class I
                        <input
type="checkbox" name="class2"
value="14" <c:if
test="${fn:contains(services.class2,'14')}">
checked="yes"</c:if>>Class II
                        <input
type="checkbox" name="class3"
value="14" <c:if
test="${fn:contains(services.class3,'14')}">
checked="yes"</c:if>>Class III
                        <input
type="checkbox" name="class4"
value="14" <c:if
test="${fn:contains(services.class4,'14')}">
checked="yes"</c:if>>Class IV
                        <input
type="checkbox" name="class5"
value="14" <c:if
test="${fn:contains(services.class5,'14')}">
checked="yes"</c:if>>Class V
                        <input
type="checkbox" name="onlay"
value="14" <c:if
test="${fn:contains(services.onlay,'14')}">
checked="yes"</c:if>>Onlay
                        <br/><br/>
                        <u> Surgery
</u><br/>
```

```
                    <input
type="checkbox" name="extraction"
value="14" <c:if
test="${fn:contains(services.extraction,'14')
}">checked="yes"</c:if>>Extraction
                    <input
type="checkbox" name="odontectomy"
value="14" <c:if
test="${fn:contains(services.odontectomy,'
14')}">checked="yes"</c:if>>Odontectom
y
                    <input
type="checkbox" name="specialcase"
value="14" <c:if
test="${fn:contains(services.specialcase,'14
')}">checked="yes"</c:if>>Special Case
                    <br/><br/>
                    <u> Emergency
Treatment </u><br/>
                    <input
type="checkbox" name="pulpsedation"
value="14" <c:if
test="${fn:contains(services.pulpsedation,'
14')}">checked="yes"</c:if>>Pulp
Sedation
                    <input
type="checkbox"
name="crownrecementation" value="14"
<c:if
test="${fn:contains(services.crownrecemen
tation,'14')}">checked="yes"</c:if>>Rece
mentation of crowns
                    <input
type="checkbox" name="fillingservice"
value="14" <c:if
test="${fn:contains(services.fillingservice,'
14')}">checked="yes"</c:if>>Temporary
fillings
                    <br/><br/>
                    <u> Fixed Partial
Dentures </u><br/>
                    <input
type="checkbox" name="laminated"
value="14" <c:if
test="${fn:contains(services.laminated,'14')
}">checked="yes"</c:if>>Laminated
                    <input
type="checkbox" name="singlecrown"
value="14" <c:if
test="${fn:contains(services.singlecrown,'1
4')}">checked="yes"</c:if>>Single Crown
                    <input
type="checkbox" name="bridgeservice"
value="14" <c:if
test="${fn:contains(services.bridgeservice,'
14')}">checked="yes"</c:if>>Bridge
                    <br/><br/>
                    <u> Endodontics
</u><br/>
                    <input
type="checkbox" name="anterior"
value="14" <c:if
test="${fn:contains(services.anterior,'14')}"
>checked="yes"</c:if>>Anterior
                    <input
type="checkbox" name="posterior"
value="14" <c:if
test="${fn:contains(services.posterior,'14')}
">checked="yes"</c:if>>Posterior
                    <input
type="checkbox"
name="otherendodontics" value="14" <c:if
test="${fn:contains(services.otherendodont
ics,'14')}">checked="yes"</c:if>>Others
(Endosurgery, Bleaching, etc.)
                    <br/><br/>
                    <hr>
                    <a href =
"javascript:void(0)" onclick =
"document.getElementById('light14').style.
display='none';document.getElementById('
fade14').style.display='none'">Submit</a>
</div>
                    <div id="fade14"
class="black_overlay"></div>
                    </div>
          </font>
          </div>

          <div id="light13"
class="white_content">
                    <font size = "2">
                    <b>Tooth 13
</b><br/><br/><br/>
                    <b>Dental
Status</b><br/>
                    <hr>
                    <input
type="checkbox" name="caries"
value="13" id="caries13" <c:if
test="${fn:contains(chart.caries,'13')}">che
cked="yes"</c:if>
onclick="showCaries()">Caries<br/>
                    <div
id="caries_surfaces13"
style="display:none;">

              &
nbsp;<input type="checkbox"
name="distalcaries" value="13"
id="distal13" onclick="drawDistal()" <c:if
test="${fn:contains(caries.distalcaries,'13')
}">checked="yes"</c:if>/>Distal
                    <input
type="checkbox" name="buccalcaries"
value="13" id="buccal13"
onclick="drawBuccal()" <c:if
test="${fn:contains(caries.buccalcaries,'13')
}">checked="yes"</c:if>/>Buccal
                    <input
type="checkbox" name="mesialcaries"
value="13" id="mesial13"
onclick="drawMesial()" <c:if
test="${fn:contains(caries.mesialcaries,'13')
}">checked="yes"</c:if>/>Mesial
                    <input
type="checkbox" name="lingualcaries"
value="13" id="lingual13"
onclick="drawLingual()" <c:if
test="${fn:contains(caries.lingualcaries,'13'
)}">checked="yes"</c:if>/>Lingual
                    <input
type="checkbox" name="occlusalcaries"
value="13" id="occlusal13"
onclick="drawOcclusal()" <c:if
test="${fn:contains(caries.occlusalcaries,'1
3')}">checked="yes"</c:if>/>Occlusal<br/
><br/>
                    </div>


                    <input
type="checkbox" name="recurrentcaries"
value="13" id="recurrentcaries13" <c:if
test="${fn:contains(chart.recurrentcaries,'1
3')}">checked="yes"</c:if>
onclick="showRecurrent()">Recurrent
Caries<br/>
                    <div
id="recurrent_surfaces13"
style="display:none;">

              &
nbsp;<input type="checkbox"
name="distalrecurrent" value="13"
id="redistal13" onclick="drawRedistal()"
<c:if
test="${fn:contains(recurrent.distalrecurren
t,'13')}">checked="yes"</c:if>/>Distal
                    <input
type="checkbox" name="buccalrecurrent"
value="13" id="rebuccal13"
onclick="drawRebuccal()" <c:if
test="${fn:contains(recurrent.buccalrecurre
nt,'13')}">checked="yes"</c:if>/>Buccal
                    <input
type="checkbox" name="mesialrecurrent"
value="13" id="remesial13"
onclick="drawRemesial()" <c:if
test="${fn:contains(recurrent.mesialrecurre
nt,'13')}">checked="yes"</c:if>/>Mesial
                    <input
type="checkbox" name="lingualrecurrent"
value="13" id="relingual13"
onclick="drawRelingual()" <c:if
test="${fn:contains(recurrent.lingualrecurre
nt,'13')}">checked="yes"</c:if>/>Lingual
                    <input
type="checkbox"
name="occlusalrecurrent" value="13"
id="reocclusal13"
onclick="drawReocclusal()" <c:if
test="${fn:contains(recurrent.occlusalrecur
rent,'13')}">checked="yes"</c:if>/>Occlus
al<br/><br/>
                    </div>


                    <input
type="checkbox" name="amalgam"
value="13" id="amalgam13"
onclick="showAmalgam()" <c:if
test="${fn:contains(chart.amalgam,'13')}">
checked="yes"</c:if>/>Amalgam<br/>
                    <div
id="amalgam_surfaces13"
style="display:none;">

              &
nbsp;<input type="checkbox"
name="distalamalgam" value="13"
id="amaldistal13"
onclick="drawAmaldistal()"  <c:if
test="${fn:contains(amalgam.distalamalga
m,'13')}">checked="yes"</c:if>/>Distal
                    <input
type="checkbox" name="buccalamalgam"
value="13" id="amalbuccal13"
onclick="drawAmalbuccal()" <c:if
test="${fn:contains(amalgam.buccalamalga
m,'13')}">checked="yes"</c:if>/>Buccal
                    <input
type="checkbox" name="mesialamalgam"
value="13" id="amalmesial13"
onclick="drawAmalmesial()" <c:if
test="${fn:contains(amalgam.mesialamalga
m,'13')}">checked="yes"</c:if>/>Mesial
                    <input
type="checkbox" name="lingualamalgam"
value="13" id="amallingual13"
onclick="drawAmallingual()" <c:if
test="${fn:contains(amalgam.lingualamalg
am,'13')}">checked="yes"</c:if>/>Lingual
```

```
                    <input
type="checkbox"
name="occlusalamalgam" value="13"
id="amalocclusal13"
onclick="drawAmalocclusal()" <c:if
test="${fn:contains(amalgam.occlusalamal
gam,'13')}">checked="yes"</c:if>/>Occlus
al<br/><br/>
                    </div>

                    <input
type="checkbox" name="composite"
value="13" id="composite13"
onclick="showComposite()" <c:if
test="${fn:contains(chart.composite,'13')}"
>checked="yes"</c:if>/>Composite<br/>

                    <div
id="composite_surfaces13"
style="display:none;">

              &
nbsp;<input type="checkbox"
name="distalcomposite" value="13"
id="compodistal13"
onclick="drawCompodistal()" <c:if
test="${fn:contains(composite.distalcompo
site,'13')}">checked="yes"</c:if>/>Distal
                    <input
type="checkbox" name="buccalcomposite"
value="13" id="compobuccal13"
onclick="drawCompobuccal()" <c:if
test="${fn:contains(composite.buccalcomp
osite,'13')}">checked="yes"</c:if>/>Bucca
l
                    <input
type="checkbox" name="mesialcomposite"
value="13" id="compomesial13"
onclick="drawCompomesial()" <c:if
test="${fn:contains(composite.mesialcomp
osite,'13')}">checked="yes"</c:if>/>Mesial
                    <input
type="checkbox"
name="lingualcomposite" value="13"
id="compolingual13"
onclick="drawCompolingual()" <c:if
test="${fn:contains(composite.lingualcomp
osite,'13')}">checked="yes"</c:if>/>Lingu
al
                    <input
type="checkbox"
name="occlusalcomposite" value="13"
id="compoocclusal13"
onclick="drawCompoocclusal()" <c:if
test="${fn:contains(composite.occlusalcom
posite,'13')}">checked="yes"</c:if>/>Occl
usal<br/><br/>
                    </div>


                    <input
type="checkbox" name="glassionomer"
value="13" id="glassionomer13"
onclick="showGlassionomer()" <c:if
test="${fn:contains(chart.glassionomer,'13'
)}">checked="yes"</c:if>/>Glass Ionomer
<br/>
                    <div
id="glass_surfaces13"
style="display:none;">

              &
nbsp;<input type="checkbox"
name="distalglass" value="13"
id="glassdistal13"
onclick="drawGlassdistal()" <c:if
test="${fn:contains(glass.distalglass,'13')}"
>checked="yes"</c:if>/>Distal
                    <input
type="checkbox" name="buccalglass"
value="13" id="glassbuccal13"
onclick="drawGlassbuccal()" <c:if
test="${fn:contains(glass.buccalglass,'13')}
">checked="yes"</c:if>/>Buccal
                    <input
type="checkbox" name="mesialglass"
value="13" id="glassmesial13"
onclick="drawGlassmesial()" <c:if
test="${fn:contains(glass.mesialglass,'13')}
">checked="yes"</c:if>/>Mesial
                    <input
type="checkbox" name="lingualglass"
value="13" id="glasslingual13"
onclick="drawGlasslingual()" <c:if
test="${fn:contains(glass.lingualglass,'13')}
">checked="yes"</c:if>/>Lingual
                    <input
type="checkbox" name="occlusalglass"
value="13" id="glassocclusal13"
onclick="drawGlassocclusal()" <c:if
test="${fn:contains(glass.occlusalglass,'13')
}">checked="yes"</c:if>/>Occlusal<br/><
br/>
                    </div>

                    <input
type="checkbox" name="tempfilling"
value="13" id="tempfilling13"
onclick="showTempfilling()" <c:if
test="${fn:contains(chart.tempfilling,'13')}
">checked="yes"</c:if>/>Temporary
Filling <br/>
                    <div
id="filling_surfaces13"
style="display:none;">

              &
nbsp;<input type="checkbox"
name="distalfilling" value="13"
id="fillingdistal13"
onclick="drawFillingdistal()" <c:if
test="${fn:contains(filling.distalfilling,'13')
}">checked="yes"</c:if>/>Distal
                    <input
type="checkbox" name="buccalfilling"
value="13" id="fillingbuccal13"
onclick="drawFillingbuccal()" <c:if
test="${fn:contains(filling.buccalfilling,'13'
)}">checked="yes"</c:if>/>Buccal
                    <input
type="checkbox" name="mesialfilling"
value="13" id="fillingmesial13"
onclick="drawFillingmesial()" <c:if
test="${fn:contains(filling.mesialfilling,'13'
)}">checked="yes"</c:if>/>Mesial
                    <input
type="checkbox" name="lingualfilling"
value="13" id="fillinglingual13"
onclick="drawFillinglingual()" <c:if
test="${fn:contains(filling.lingualfilling,'13
')}">checked="yes"</c:if>/>Lingual
                    <input
type="checkbox" name="occlusalfilling"
value="13" id="fillingocclusal13"
onclick="drawFillingocclusal()" <c:if
test="${fn:contains(filling.occlusalfilling,'1
3')}">checked="yes"</c:if>/>Occlusal
                    </div>

                    <table>
                    <tr>

          <td><input type="checkbox"
name="extrusion" id="extrusion13"
value="13" onclick="drawExtrusion()"
<c:if
test="${fn:contains(chart.extrusion,'13')}">
checked="yes"</c:if>/></td>

          <td>Extrusion</td>

          <td><input type="checkbox"
name="intrusion" id="intrusion13"
value="13" onclick="drawIntrusion()" <c:if
test="${fn:contains(chart.intrusion,'13')}">
checked="yes"</c:if>/></td>

          <td>Intrusion</td>

          <td><input type="checkbox"
name="mesialdrift" id="mesialdrift13"
value="13" onclick="drawMesialdrift()"
<c:if
test="${fn:contains(chart.mesialdrift,'13')}"
>checked="yes"</c:if>/></td>

          <td>Mesial Drifting
Rotation</td>

          <td><input type="checkbox"
name="distaldrift" id="distaldrift13"
value="13" onclick="drawDistaldrift()"
<c:if
test="${fn:contains(chart.distaldrift,'13')}"
>checked="yes"</c:if>/></td>

          <td>Distal Drifting
Rotation</td>
                    </tr><br/>
                    <tr>

          <td><input type="checkbox"
name="rotation" id="rotation13"
value="13" onclick="drawRotation()" <c:if
test="${fn:contains(chart.rotation,'13')}">c
hecked="yes"</c:if>/></td>

          <td>Rotation</td>

          <td><input type="checkbox"
name="postcorecrown"
id="postcorecrown13" value="13"
onclick="drawPostcorecrown()" <c:if
test="${fn:contains(chart.postcorecrown,'1
3')}">checked="yes"</c:if>/></td>

          <td>Post Core Crown</td>

          <td><input type="checkbox"
name="rootcanal" value="13"
id="rootcanal13"
onclick="drawRootcanal()" <c:if
test="${fn:contains(chart.rootcanal,'13')}">
checked="yes"</c:if>/></td>

          <td>Root Canal
Treatment</td>

          <td><input type="checkbox"
name="pitandfissure" value="13"
id="pitfissure13"
onclick="drawPitfissure()" <c:if
```

```
test="${fn:contains(chart.pitandfissure,'13')
}">checked="yes"</c:if>/></td>
                                        <td>Pit
and Fissure Sealants</td>
                                </tr><br/>
                                <tr>

                <td><input type="checkbox"
name="extracted" id="extracted13"
value="13" onclick="drawExtracted()"
<c:if
test="${fn:contains(chart.extracted,'13')}">
checked="yes"</c:if>/></td>

                <td>Extracted</td>

                <td><input type="checkbox"
name="missing" id="missing13"
value="13" onclick="drawMissing()" <c:if
test="${fn:contains(chart.missing,'13')}">c
hecked="yes"</c:if>/></td>

                <td>Missing</td>

                <td><input type="checkbox"
name="unerupted" id="unerupted13"
value="13" onclick="drawUnerupted()"
<c:if
test="${fn:contains(chart.unerupted,'13')}"
>checked="yes"</c:if>/></td>

                <td>Unerupted</td>

                <td><input type="checkbox"
name="impacted" id="impacted13"
value="13" onclick="drawImpacted()"
<c:if
test="${fn:contains(chart.impacted,'13')}">
checked="yes"</c:if>/></td>

                <td>Impacted</td>
                                </tr><br/>
                                <tr>

                <td><input type="checkbox"
name="porcelainfused"
id="porcelainfused13" value="13"
onclick="drawPorcelainfused()" <c:if
test="${fn:contains(chart.porcelainfused,'1
3')}">checked="yes"</c:if>/></td>

                <td>Porcelain Fused to
Metal</td>

                <td><input type="checkbox"
name="acryliccrown" id="acryliccrown13"
value="13" onclick="drawAcryliccrown()"
<c:if
test="${fn:contains(chart.acryliccrown,'13')
}">checked="yes"</c:if>/></td>

                <td>Acrylic Crown</td>

                <td><input type="checkbox"
name="metalcrown" id="metalcrown13"
value="13" onclick="drawMetalcrown()"
<c:if
test="${fn:contains(chart.metalcrown,'13')}
">checked="yes"</c:if>/></td>

                <td>Metal Crown</td>

                <td><input type="checkbox"
name="porcelaincrown"
id="porcelaincrown13" value="13"
onclick="drawPorcelaincrown()" <c:if
test="${fn:contains(chart.porcelaincrown,'1
3')}">checked="yes"</c:if>/></td>

                <td>Porcelain Crown</td>
                                </tr><br/>
                                <tr>

                <td><input type="checkbox"
name="removablepartial" value="13"
id="removablepartial13"
onclick="drawRemovable()" <c:if
test="${fn:contains(chart.removablepartial,'
13')}">checked="yes"</c:if>/></td>

                <td>Removable Partial
Denture</td>

                <td><input type="checkbox"
name="fixedbridge" id="fixedbridge13"
value="13" onclick="drawFixedbridge()"
<c:if
test="${fn:contains(chart.fixedbridge,'13')}
">checked="yes"</c:if>/></td>

                <td>Fixed Bridge</td>

                <td><input type="checkbox"
name="restorable" id="restorable13"
value="13" onclick="drawRestorable()"
<c:if
test="${fn:contains(chart.restorable,'13')}"
>checked="yes"</c:if>/></td>

                <td>Restorable</td>

                <td><input type="checkbox"
name="nonrestorable"
id="nonrestorable13" value="13"
onclick="drawNonrestorable()" <c:if
test="${fn:contains(chart.nonrestorable,'13'
)}">checked="yes"</c:if>/></td>

                <td>Non-restorable</td>
                                </tr>
                                </table>
                                <hr>
                                <br/><br/>
                                <b>Services
needed</b><br/>
                                <hr>
                                <u>Operative
Dentistry</u><br/>
                                <input
type="checkbox" name="class1"
value="13" onclick="drawExtracted()"
<c:if
test="${fn:contains(services.class1,'13')}">
checked="yes"</c:if>>Class I
                                <input
type="checkbox" name="class2"
value="13" <c:if
test="${fn:contains(services.class2,'13')}">
checked="yes"</c:if>>Class II
                                <input
type="checkbox" name="class3"
value="13" <c:if
test="${fn:contains(services.class3,'13')}">
checked="yes"</c:if>>Class III
                                <input
type="checkbox" name="class4"
value="13" <c:if
test="${fn:contains(services.class4,'13')}">
checked="yes"</c:if>>Class IV
                                <input
type="checkbox" name="class5"
value="13" <c:if
test="${fn:contains(services.class5,'13')}">
checked="yes"</c:if>>Class V
                                <input
type="checkbox" name="onlay"
value="13" <c:if
test="${fn:contains(services.onlay,'13')}">
checked="yes"</c:if>>Onlay
                                <br/><br/>
                                <u> Surgery
</u><br/>
                                <input
type="checkbox" name="extraction"
value="13" <c:if
test="${fn:contains(services.extraction,'13')
}">checked="yes"</c:if>>Extraction
                                <input
type="checkbox" name="odontectomy"
value="13" <c:if
test="${fn:contains(services.odontectomy,'
13')}">checked="yes"</c:if>>Odontectom
y
                                <input
type="checkbox" name="specialcase"
value="13" <c:if
test="${fn:contains(services.specialcase,'13
')}">checked="yes"</c:if>>Special Case
                                <br/><br/>
                                <u> Emergency
Treatment </u><br/>
                                <input
type="checkbox" name="pulpsedation"
value="13" <c:if
test="${fn:contains(services.pulpsedation,'
13')}">checked="yes"</c:if>>Pulp
Sedation
                                <input
type="checkbox"
name="crownrecementation" value="13"
<c:if
test="${fn:contains(services.crownrecemen
tation,'13')}">checked="yes"</c:if>>Rece
mentation of crowns
                                <input
type="checkbox" name="fillingservice"
value="13" <c:if
test="${fn:contains(services.fillingservice,'
13')}">checked="yes"</c:if>>Temporary
fillings
                                <br/><br/>
                                <u> Fixed Partial
Dentures </u><br/>
                                <input
type="checkbox" name="laminated"
value="13" <c:if
test="${fn:contains(services.laminated,'13')
}">checked="yes"</c:if>>Laminated
                                <input
type="checkbox" name="singlecrown"
value="13" <c:if
test="${fn:contains(services.singlecrown,'1
3')}">checked="yes"</c:if>>Single Crown
                                <input
type="checkbox" name="bridgeservice"
value="13" <c:if
test="${fn:contains(services.bridgeservice,'
13')}">checked="yes"</c:if>>Bridge
                                <br/><br/>
                                <u> Endodontics
</u><br/>
```

```
                        <input
type="checkbox" name="anterior"
value="13" <c:if
test="${fn:contains(services.anterior,'13')}"
>checked="yes"</c:if>>Anterior
                        <input
type="checkbox" name="posterior"
value="13" <c:if
test="${fn:contains(services.posterior,'13')}
">checked="yes"</c:if>>Posterior
                        <input
type="checkbox"
name="otherendodontics" value="13" <c:if
test="${fn:contains(services.otherendodont
ics,'13')}">checked="yes"</c:if>>Others
(Endosurgery, Bleaching, etc.)
                        <br/><br/>
                        <hr>
                        <a href =
"javascript:void(0)" onclick =
"document.getElementById('light13').style.
display='none';document.getElementById('
fade13').style.display='none'">Submit</a>
</div>
                        <div id="fade13"
class="black_overlay"></div>
                        </div>
                </font>
                </div>

                <div id="light12"
class="white_content">
                        <font size = "2">
                        <b>Tooth 12
</b><br/><br/><br/>
                        <b>Dental
Status</b><br/>
                        <hr>
                        <input
type="checkbox" name="caries"
value="12" id="caries12" <c:if
test="${fn:contains(chart.caries,'12')}">che
cked="yes"</c:if>
onclick="showCaries()">Caries<br/>
                        <div
id="caries_surfaces12"
style="display:none;">

                    &
nbsp;<input type="checkbox"
name="distalcaries" value="12"
id="distal12" onclick="drawDistal()" <c:if
test="${fn:contains(caries.distalcaries,'12')
}">checked="yes"</c:if>/>Distal
                        <input
type="checkbox" name="buccalcaries"
value="12" id="buccal12"
onclick="drawBuccal()" <c:if
test="${fn:contains(caries.buccalcaries,'12')
}">checked="yes"</c:if>/>Buccal
                        <input
type="checkbox" name="mesialcaries"
value="12" id="mesial12"
onclick="drawMesial()" <c:if
test="${fn:contains(caries.mesialcaries,'12')
}">checked="yes"</c:if>/>Mesial
                        <input
type="checkbox" name="lingualcaries"
value="12" id="lingual12"
onclick="drawLingual()" <c:if
test="${fn:contains(caries.lingualcaries,'12'
)}">checked="yes"</c:if>/>Lingual
                        <input
type="checkbox" name="occlusalcaries"
value="12" id="occlusal12"
onclick="drawOcclusal()" <c:if
test="${fn:contains(caries.occlusalcaries,'1
2')}">checked="yes"</c:if>/>Occlusal<br/
><br/>
                        </div>

                        <input
type="checkbox" name="recurrentcaries"
value="12" id="recurrentcaries12" <c:if
test="${fn:contains(chart.recurrentcaries,'1
2')}">checked="yes"</c:if>
onclick="showRecurrent()">Recurrent
Caries<br/>
                        <div
id="recurrent_surfaces12"
style="display:none;">

                    &
nbsp;<input type="checkbox"
name="distalrecurrent" value="12"
id="redistal12" onclick="drawRedistal()"
<c:if
test="${fn:contains(recurrent.distalrecurren
t,'12')}">checked="yes"</c:if>/>Distal
                        <input
type="checkbox" name="buccalrecurrent"
value="12" id="rebuccal12"
onclick="drawRebuccal()" <c:if
test="${fn:contains(recurrent.buccalrecurre
nt,'12')}">checked="yes"</c:if>/>Buccal
                        <input
type="checkbox" name="mesialrecurrent"
value="12" id="remesial12"
onclick="drawRemesial()" <c:if
test="${fn:contains(recurrent.mesialrecurre
nt,'12')}">checked="yes"</c:if>/>Mesial
                        <input
type="checkbox" name="lingualrecurrent"
value="12" id="relingual12"
onclick="drawRelingual()" <c:if
test="${fn:contains(recurrent.lingualrecurre
nt,'12')}">checked="yes"</c:if>/>Lingual
                        <input
type="checkbox"
name="occlusalrecurrent" value="12"
id="reocclusal12"
onclick="drawReocclusal()" <c:if
test="${fn:contains(recurrent.occlusalrecur
rent,'12')}">checked="yes"</c:if>/>Occlus
al<br/><br/>
                        </div>

                        <input
type="checkbox" name="amalgam"
value="12" id="amalgam12"
onclick="showAmalgam()" <c:if
test="${fn:contains(chart.amalgam,'12')}">
checked="yes"</c:if>/>Amalgam<br/>
                        <div
id="amalgam_surfaces12"
style="display:none;">

                    &
nbsp;<input type="checkbox"
name="distalamalgam" value="12"
id="amaldistal12"
onclick="drawAmaldistal()"  <c:if
test="${fn:contains(amalgam.distalamalga
m,'12')}">checked="yes"</c:if>/>Distal
                        <input
type="checkbox" name="buccalamalgam"
value="12" id="amalbuccal12"
onclick="drawAmalbuccal()" <c:if
test="${fn:contains(amalgam.buccalamalga
m,'12')}">checked="yes"</c:if>/>Buccal
                        <input
type="checkbox" name="mesialamalgam"
value="12" id="amalmesial12"
onclick="drawAmalmesial()" <c:if
test="${fn:contains(amalgam.mesialamalga
m,'12')}">checked="yes"</c:if>/>Mesial
                        <input
type="checkbox" name="lingualamalgam"
value="12" id="amallingual12"
onclick="drawAmallingual()" <c:if
test="${fn:contains(amalgam.lingualamalg
am,'12')}">checked="yes"</c:if>/>Lingual
                        <input
type="checkbox"
name="occlusalamalgam" value="12"
id="amalocclusal12"
onclick="drawAmalocclusal()" <c:if
test="${fn:contains(amalgam.occlusalamal
gam,'12')}">checked="yes"</c:if>/>Occlus
al<br/><br/>
                        </div>

                        <input
type="checkbox" name="composite"
value="12" id="composite12"
onclick="showComposite()" <c:if
test="${fn:contains(chart.composite,'12')}"
>checked="yes"</c:if>/>Composite<br/>

                        <div
id="composite_surfaces12"
style="display:none;">

                    &
nbsp;<input type="checkbox"
name="distalcomposite" value="12"
id="compodistal12"
onclick="drawCompodistal()" <c:if
test="${fn:contains(composite.distalcompo
site,'12')}">checked="yes"</c:if>/>Distal
                        <input
type="checkbox" name="buccalcomposite"
value="12" id="compobuccal12"
onclick="drawCompobuccal()" <c:if
test="${fn:contains(composite.buccalcomp
osite,'12')}">checked="yes"</c:if>/>Bucca
l
                        <input
type="checkbox" name="mesialcomposite"
value="12" id="compomesial12"
onclick="drawCompomesial()" <c:if
test="${fn:contains(composite.mesialcomp
osite,'12')}">checked="yes"</c:if>/>Mesial
                        <input
type="checkbox"
name="lingualcomposite" value="12"
id="compolingual12"
onclick="drawCompolingual()" <c:if
test="${fn:contains(composite.lingualcomp
osite,'12')}">checked="yes"</c:if>/>Lingu
al
                        <input
type="checkbox"
name="occlusalcomposite" value="12"
id="compoocclusal12"
onclick="drawCompoocclusal()" <c:if
test="${fn:contains(composite.occlusalcom
posite,'12')}">checked="yes"</c:if>/>Occl
usal<br/><br/>
                        </div>
```

```
                    <input
type="checkbox" name="glassionomer"
value="12" id="glassionomer12"
onclick="showGlassionomer()" <c:if
test="${fn:contains(chart.glassionomer,'12'
)}">checked="yes"</c:if>/>Glass Ionomer
<br/>
                    <div
id="glass_surfaces12"
style="display:none;">

               &
nbsp;<input type="checkbox"
name="distalglass" value="12"
id="glassdistal12"
onclick="drawGlassdistal()" <c:if
test="${fn:contains(glass.distalglass,'12')}"
>checked="yes"</c:if>/>Distal
                    <input
type="checkbox" name="buccalglass"
value="12" id="glassbuccal12"
onclick="drawGlassbuccal()" <c:if
test="${fn:contains(glass.buccalglass,'12')}
">checked="yes"</c:if>/>Buccal
                    <input
type="checkbox" name="mesialglass"
value="12" id="glassmesial12"
onclick="drawGlassmesial()" <c:if
test="${fn:contains(glass.mesialglass,'12')}
">checked="yes"</c:if>/>Mesial
                    <input
type="checkbox" name="lingualglass"
value="12" id="glasslingual12"
onclick="drawGlasslingual()" <c:if
test="${fn:contains(glass.lingualglass,'12')}
">checked="yes"</c:if>/>Lingual
                    <input
type="checkbox" name="occlusalglass"
value="12" id="glassocclusal12"
onclick="drawGlassocclusal()" <c:if
test="${fn:contains(glass.occlusalglass,'12')
}">checked="yes"</c:if>/>Occlusal<br/><
br/>
                    </div>

                    <input
type="checkbox" name="tempfilling"
value="12" id="tempfilling12"
onclick="showTempfilling()" <c:if
test="${fn:contains(chart.tempfilling,'12')}
">checked="yes"</c:if>/>Temporary
Filling <br/>
                    <div
id="filling_surfaces12"
style="display:none;">

               &
nbsp;<input type="checkbox"
name="distalfilling" value="12"
id="fillingdistal12"
onclick="drawFillingdistal()" <c:if
test="${fn:contains(filling.distalfilling,'12')
}">checked="yes"</c:if>/>Distal
                    <input
type="checkbox" name="buccalfilling"
value="12" id="fillingbuccal12"
onclick="drawFillingbuccal()" <c:if
test="${fn:contains(filling.buccalfilling,'12'
)}">checked="yes"</c:if>/>Buccal
                    <input
type="checkbox" name="mesialfilling"
value="12" id="fillingmesial12"
onclick="drawFillingmesial()" <c:if
test="${fn:contains(filling.mesialfilling,'12'
)}">checked="yes"</c:if>/>Mesial
                    <input
type="checkbox" name="lingualfilling"
value="12" id="fillinglingual12"
onclick="drawFillinglingual()" <c:if
test="${fn:contains(filling.lingualfilling,'12
')}">checked="yes"</c:if>/>Lingual
                    <input
type="checkbox" name="occlusalfilling"
value="12" id="fillingocclusal12"
onclick="drawFillingocclusal()" <c:if
test="${fn:contains(filling.occlusalfilling,'1
2')}">checked="yes"</c:if>/>Occlusal
                    </div>

                    <table>
                    <tr>

            <td><input type="checkbox"
name="extrusion" id="extrusion12"
value="12" onclick="drawExtrusion()"
<c:if
test="${fn:contains(chart.extrusion,'12')}">
checked="yes"</c:if>/></td>

            <td>Extrusion</td>

            <td><input type="checkbox"
name="intrusion" id="intrusion12"
value="12" onclick="drawIntrusion()" <c:if
test="${fn:contains(chart.intrusion,'12')}">
checked="yes"</c:if>/></td>

            <td>Intrusion</td>

            <td><input type="checkbox"
name="mesialdrift" id="mesialdrift12"
value="12" onclick="drawMesialdrift()"
<c:if
test="${fn:contains(chart.mesialdrift,'12')}"
>checked="yes"</c:if>/></td>

            <td>Mesial Drifting
Rotation</td>

            <td><input type="checkbox"
name="distaldrift" id="distaldrift12"
value="12" onclick="drawDistaldrift()"
<c:if
test="${fn:contains(chart.distaldrift,'12')}"
>checked="yes"</c:if>/></td>

            <td>Distal Drifting
Rotation</td>
                    </tr><br/>
                    <tr>

            <td><input type="checkbox"
name="rotation" id="rotation12"
value="12" onclick="drawRotation()" <c:if
test="${fn:contains(chart.rotation,'12')}">c
hecked="yes"</c:if>/></td>

            <td>Rotation</td>

            <td><input type="checkbox"
name="postcorecrown"
id="postcorecrown12" value="12"
onclick="drawPostcorecrown()" <c:if
test="${fn:contains(chart.postcorecrown,'1
2')}">checked="yes"</c:if>/></td>

            <td>Post Core Crown</td>

            <td><input type="checkbox"
name="rootcanal" value="12"
id="rootcanal12"
onclick="drawRootcanal()" <c:if
test="${fn:contains(chart.rootcanal,'12')}">
checked="yes"</c:if>/></td>

            <td>Root Canal
Treatment</td>

            <td><input type="checkbox"
name="pitandfissure" value="12"
id="pitfissure12"
onclick="drawPitfissure()" <c:if
test="${fn:contains(chart.pitandfissure,'12')
}">checked="yes"</c:if>/></td>
                    <td>Pit
and Fissure Sealants</td>
                    </tr><br/>
                    <tr>

            <td><input type="checkbox"
name="extracted" id="extracted12"
value="12" onclick="drawExtracted()"
<c:if
test="${fn:contains(chart.extracted,'12')}">
checked="yes"</c:if>/></td>

            <td>Extracted</td>

            <td><input type="checkbox"
name="missing" id="missing12"
value="12" onclick="drawMissing()" <c:if
test="${fn:contains(chart.missing,'12')}">c
hecked="yes"</c:if>/></td>

            <td>Missing</td>

            <td><input type="checkbox"
name="unerupted" id="unerupted12"
value="12" onclick="drawUnerupted()"
<c:if
test="${fn:contains(chart.unerupted,'12')}"
>checked="yes"</c:if>/></td>

            <td>Unerupted</td>

            <td><input type="checkbox"
name="impacted" id="impacted12"
value="12" onclick="drawImpacted()"
<c:if
test="${fn:contains(chart.impacted,'12')}">
checked="yes"</c:if>/></td>

            <td>Impacted</td>
                    </tr><br/>
                    <tr>

            <td><input type="checkbox"
name="porcelainfused"
id="porcelainfused12" value="12"
onclick="drawPorcelainfused()" <c:if
test="${fn:contains(chart.porcelainfused,'1
2')}">checked="yes"</c:if>/></td>

            <td>Porcelain Fused to
Metal</td>

            <td><input type="checkbox"
name="acryliccrown" id="acryliccrown12"
value="12" onclick="drawAcryliccrown()"
<c:if
```

```
test="${fn:contains(chart.acryliccrown,'12')
}">checked="yes"</c:if>/></td>

		<td>Acrylic Crown</td>

		<td><input type="checkbox"
name="metalcrown" id="metalcrown12"
value="12" onclick="drawMetalcrown()"
<c:if
test="${fn:contains(chart.metalcrown,'12')}
">checked="yes"</c:if>/></td>

		<td>Metal Crown</td>

		<td><input type="checkbox"
name="porcelaincrown"
id="porcelaincrown12" value="12"
onclick="drawPorcelaincrown()" <c:if
test="${fn:contains(chart.porcelaincrown,'1
2')}">checked="yes"</c:if>/></td>

		<td>Porcelain Crown</td>
			</tr><br/>
			<tr>

		<td><input type="checkbox"
name="removablepartial" value="12"
id="removablepartial12"
onclick="drawRemovable()" <c:if
test="${fn:contains(chart.removablepartial,'
12')}">checked="yes"</c:if>/></td>

		<td>Removable Partial
Denture</td>

		<td><input type="checkbox"
name="fixedbridge" id="fixedbridge12"
value="12" onclick="drawFixedbridge()"
<c:if
test="${fn:contains(chart.fixedbridge,'12')}
">checked="yes"</c:if>/></td>

		<td>Fixed Bridge</td>

		<td><input type="checkbox"
name="restorable" id="restorable12"
value="12" onclick="drawRestorable()"
<c:if
test="${fn:contains(chart.restorable,'12')}"
>checked="yes"</c:if>/></td>

		<td>Restorable</td>

		<td><input type="checkbox"
name="nonrestorable"
id="nonrestorable12" value="12"
onclick="drawNonrestorable()" <c:if
test="${fn:contains(chart.nonrestorable,'12'
)}">checked="yes"</c:if>/></td>

		<td>Non-restorable</td>
			</tr>
			</table>
			<hr>
			<br/><br/>
			<b>Services
needed</b><br/>
			<hr>
			<u>Operative
Dentistry</u><br/>
			<input
type="checkbox" name="class1"
value="12" onclick="drawExtracted()"
<c:if
test="${fn:contains(services.class1,'12')}">
checked="yes"</c:if>>Class I
			<input
type="checkbox" name="class2"
value="12" <c:if
test="${fn:contains(services.class2,'12')}">
checked="yes"</c:if>>Class II
			<input
type="checkbox" name="class3"
value="12" <c:if
test="${fn:contains(services.class3,'12')}">
checked="yes"</c:if>>Class III
			<input
type="checkbox" name="class4"
value="12" <c:if
test="${fn:contains(services.class4,'12')}">
checked="yes"</c:if>>Class IV
			<input
type="checkbox" name="class5"
value="12" <c:if
test="${fn:contains(services.class5,'12')}">
checked="yes"</c:if>>Class V
			<input
type="checkbox" name="onlay"
value="12" <c:if
test="${fn:contains(services.onlay,'12')}">
checked="yes"</c:if>>Onlay
			<br/><br/>
			<u> Surgery
</u><br/>
			<input
type="checkbox" name="extraction"
value="12" <c:if
test="${fn:contains(services.extraction,'12')
}">checked="yes"</c:if>>Extraction
			<input
type="checkbox" name="odontectomy"
value="12" <c:if
test="${fn:contains(services.odontectomy,'
12')}">checked="yes"</c:if>>Odontectom
y
			<input
type="checkbox" name="specialcase"
value="12" <c:if
test="${fn:contains(services.specialcase,'12
')}">checked="yes"</c:if>>Special Case
			<br/><br/>
			<u> Emergency
Treatment </u><br/>
			<input
type="checkbox" name="pulpsedation"
value="12" <c:if
test="${fn:contains(services.pulpsedation,'
12')}">checked="yes"</c:if>>Pulp
Sedation
			<input
type="checkbox"
name="crownrecementation" value="12"
<c:if
test="${fn:contains(services.crownrecemen
tation,'12')}">checked="yes"</c:if>>Rece
mentation of crowns
			<input
type="checkbox" name="fillingservice"
value="12" <c:if
test="${fn:contains(services.fillingservice,'
12')}">checked="yes"</c:if>>Temporary
fillings
			<br/><br/>
			<u> Fixed Partial
Dentures </u><br/>
			<input
type="checkbox" name="laminated"
value="12" <c:if
test="${fn:contains(services.laminated,'12')
}">checked="yes"</c:if>>Laminated
			<input
type="checkbox" name="singlecrown"
value="12" <c:if
test="${fn:contains(services.singlecrown,'1
2')}">checked="yes"</c:if>>Single Crown
			<input
type="checkbox" name="bridgeservice"
value="12" <c:if
test="${fn:contains(services.bridgeservice,'
12')}">checked="yes"</c:if>>Bridge
			<br/><br/>
			<u> Endodontics
</u><br/>
			<input
type="checkbox" name="anterior"
value="12" <c:if
test="${fn:contains(services.anterior,'12')}"
>checked="yes"</c:if>>Anterior
			<input
type="checkbox" name="posterior"
value="12" <c:if
test="${fn:contains(services.posterior,'12')}
">checked="yes"</c:if>>Posterior
			<input
type="checkbox"
name="otherendodontics" value="12" <c:if
test="${fn:contains(services.otherendodont
ics,'12')}">checked="yes"</c:if>>Others
(Endosurgery, Bleaching, etc.)
			<br/><br/>
			<hr>
			<a href =
"javascript:void(0)" onclick =
"document.getElementById('light12').style.
display='none';document.getElementById('
fade12').style.display='none'">Submit</a>
</div>
			<div id="fade12"
class="black_overlay"></div>
			</div>
		</font>
		</div>

		<div id="light11"
class="white_content">
			<font size = "2">
			<b>Tooth 11
</b><br/><br/><br/>
			<b>Dental
Status</b><br/>
			<hr>
			<input
type="checkbox" name="caries"
value="11" id="caries11" <c:if
test="${fn:contains(chart.caries,'11')}">che
cked="yes"</c:if>
onclick="showCaries()">Caries<br/>
			<div
id="caries_surfaces11"
style="display:none;">

		    &
nbsp;<input type="checkbox"
name="distalcaries" value="11"
id="distal11" onclick="drawDistal()" <c:if
test="${fn:contains(caries.distalcaries,'11')
}">checked="yes"</c:if>/>Distal
			<input
type="checkbox" name="buccalcaries"
value="11" id="buccal11"
onclick="drawBuccal()" <c:if
```

```
test="${fn:contains(caries.buccalcaries,'11')
}">checked="yes"</c:if>/>Buccal
                        <input
type="checkbox" name="mesialcaries"
value="11" id="mesial11"
onclick="drawMesial()" <c:if
test="${fn:contains(caries.mesialcaries,'11')
}">checked="yes"</c:if>/>Mesial
                        <input
type="checkbox" name="lingualcaries"
value="11" id="lingual11"
onclick="drawLingual()" <c:if
test="${fn:contains(caries.lingualcaries,'11'
)}">checked="yes"</c:if>/>Lingual
                        <input
type="checkbox" name="occlusalcaries"
value="11" id="occlusal11"
onclick="drawOcclusal()" <c:if
test="${fn:contains(caries.occlusalcaries,'1
1')}">checked="yes"</c:if>/>Occlusal<br/
><br/>
                        </div>

                        <input
type="checkbox" name="recurrentcaries"
value="11" id="recurrentcaries11" <c:if
test="${fn:contains(chart.recurrentcaries,'1
1')}">checked="yes"</c:if>
onclick="showRecurrent()">Recurrent
Caries<br/>
                        <div
id="recurrent_surfaces11"
style="display:none;">

                    &
nbsp;<input type="checkbox"
name="distalrecurrent" value="11"
id="redistal11" onclick="drawRedistal()"
<c:if
test="${fn:contains(recurrent.distalrecurren
t,'11')}">checked="yes"</c:if>/>Distal
                        <input
type="checkbox" name="buccalrecurrent"
value="11" id="rebuccal11"
onclick="drawRebuccal()" <c:if
test="${fn:contains(recurrent.buccalrecurre
nt,'11')}">checked="yes"</c:if>/>Buccal
                        <input
type="checkbox" name="mesialrecurrent"
value="11" id="remesial11"
onclick="drawRemesial()" <c:if
test="${fn:contains(recurrent.mesialrecurre
nt,'11')}">checked="yes"</c:if>/>Mesial
                        <input
type="checkbox" name="lingualrecurrent"
value="11" id="relingual11"
onclick="drawRelingual()" <c:if
test="${fn:contains(recurrent.lingualrecurre
nt,'11')}">checked="yes"</c:if>/>Lingual
                        <input
type="checkbox"
name="occlusalrecurrent" value="11"
id="reocclusal11"
onclick="drawReocclusal()" <c:if
test="${fn:contains(recurrent.occlusalrecur
rent,'11')}">checked="yes"</c:if>/>Occlus
al<br/><br/>
                        </div>

                        <input
type="checkbox" name="amalgam"
value="11" id="amalgam11"
onclick="showAmalgam()" <c:if
test="${fn:contains(chart.amalgam,'11')}">
checked="yes"</c:if>/>Amalgam<br/>
                        <div
id="amalgam_surfaces11"
style="display:none;">

                    &
nbsp;<input type="checkbox"
name="distalamalgam" value="11"
id="amaldistal11"
onclick="drawAmaldistal()"  <c:if
test="${fn:contains(amalgam.distalamalga
m,'11')}">checked="yes"</c:if>/>Distal
                        <input
type="checkbox" name="buccalamalgam"
value="11" id="amalbuccal11"
onclick="drawAmalbuccal()" <c:if
test="${fn:contains(amalgam.buccalamalga
m,'11')}">checked="yes"</c:if>/>Buccal
                        <input
type="checkbox" name="mesialamalgam"
value="11" id="amalmesial11"
onclick="drawAmalmesial()" <c:if
test="${fn:contains(amalgam.mesialamalga
m,'11')}">checked="yes"</c:if>/>Mesial
                        <input
type="checkbox" name="lingualamalgam"
value="11" id="amallingual11"
onclick="drawAmallingual()" <c:if
test="${fn:contains(amalgam.lingualamalg
am,'11')}">checked="yes"</c:if>/>Lingual
                        <input
type="checkbox"
name="occlusalamalgam" value="11"
id="amalocclusal11"
onclick="drawAmalocclusal()" <c:if
test="${fn:contains(amalgam.occlusalamal
gam,'11')}">checked="yes"</c:if>/>Occlus
al<br/><br/>
                        </div>

                        <input
type="checkbox" name="composite"
value="11" id="composite11"
onclick="showComposite()" <c:if
test="${fn:contains(chart.composite,'11')}"
>checked="yes"</c:if>/>Composite<br/>

                        <div
id="composite_surfaces11"
style="display:none;">

                    &
nbsp;<input type="checkbox"
name="distalcomposite" value="11"
id="compodistal11"
onclick="drawCompodistal()" <c:if
test="${fn:contains(composite.distalcompo
site,'11')}">checked="yes"</c:if>/>Distal
                        <input
type="checkbox" name="buccalcomposite"
value="11" id="compobuccal11"
onclick="drawCompobuccal()" <c:if
test="${fn:contains(composite.buccalcomp
osite,'11')}">checked="yes"</c:if>/>Bucca
l
                        <input
type="checkbox" name="mesialcomposite"
value="11" id="compomesial11"
onclick="drawCompomesial()" <c:if
test="${fn:contains(composite.mesialcomp
osite,'11')}">checked="yes"</c:if>/>Mesial
                        <input
type="checkbox"
name="lingualcomposite" value="11"
id="compolingual11"
onclick="drawCompolingual()" <c:if
test="${fn:contains(composite.lingualcomp
osite,'11')}">checked="yes"</c:if>/>Lingu
al
                        <input
type="checkbox"
name="occlusalcomposite" value="11"
id="compoocclusal11"
onclick="drawCompoocclusal()" <c:if
test="${fn:contains(composite.occlusalcom
posite,'11')}">checked="yes"</c:if>/>Occl
usal<br/><br/>
                        </div>


                        <input
type="checkbox" name="glassionomer"
value="11" id="glassionomer11"
onclick="showGlassionomer()" <c:if
test="${fn:contains(chart.glassionomer,'11'
)}">checked="yes"</c:if>/>Glass Ionomer
<br/>
                        <div
id="glass_surfaces11"
style="display:none;">

                    &
nbsp;<input type="checkbox"
name="distalglass" value="11"
id="glassdistal11"
onclick="drawGlassdistal()" <c:if
test="${fn:contains(glass.distalglass,'11')}"
>checked="yes"</c:if>/>Distal
                        <input
type="checkbox" name="buccalglass"
value="11" id="glassbuccal11"
onclick="drawGlassbuccal()" <c:if
test="${fn:contains(glass.buccalglass,'11')}
">checked="yes"</c:if>/>Buccal
                        <input
type="checkbox" name="mesialglass"
value="11" id="glassmesial11"
onclick="drawGlassmesial()" <c:if
test="${fn:contains(glass.mesialglass,'11')}
">checked="yes"</c:if>/>Mesial
                        <input
type="checkbox" name="lingualglass"
value="11" id="glasslingual11"
onclick="drawGlasslingual()" <c:if
test="${fn:contains(glass.lingualglass,'11')}
">checked="yes"</c:if>/>Lingual
                        <input
type="checkbox" name="occlusalglass"
value="11" id="glassocclusal11"
onclick="drawGlassocclusal()" <c:if
test="${fn:contains(glass.occlusalglass,'11')
}">checked="yes"</c:if>/>Occlusal<br/><
br/>
                        </div>

                        <input
type="checkbox" name="tempfilling"
value="11" id="tempfilling11"
onclick="showTempfilling()" <c:if
test="${fn:contains(chart.tempfilling,'11')}
">checked="yes"</c:if>/>Temporary
Filling <br/>
                        <div
id="filling_surfaces11"
style="display:none;">

                    &
```

```
nbsp;<input type="checkbox"
name="distalfilling" value="11"
id="fillingdistal11"
onclick="drawFillingdistal()" <c:if
test="${fn:contains(filling.distalfilling,'11')
}">checked="yes"</c:if>/>Distal
                        <input
type="checkbox" name="buccalfilling"
value="11" id="fillingbuccal11"
onclick="drawFillingbuccal()" <c:if
test="${fn:contains(filling.buccalfilling,'11'
)}">checked="yes"</c:if>/>Buccal
                        <input
type="checkbox" name="mesialfilling"
value="11" id="fillingmesial11"
onclick="drawFillingmesial()" <c:if
test="${fn:contains(filling.mesialfilling,'11'
)}">checked="yes"</c:if>/>Mesial
                        <input
type="checkbox" name="lingualfilling"
value="11" id="fillinglingual11"
onclick="drawFillinglingual()" <c:if
test="${fn:contains(filling.lingualfilling,'11
')}">checked="yes"</c:if>/>Lingual
                        <input
type="checkbox" name="occlusalfilling"
value="11" id="fillingocclusal11"
onclick="drawFillingocclusal()" <c:if
test="${fn:contains(filling.occlusalfilling,'1
1')}">checked="yes"</c:if>/>Occlusal
                        </div>

                        <table>
                        <tr>

            <td><input type="checkbox"
name="extrusion" id="extrusion11"
value="11" onclick="drawExtrusion()"
<c:if
test="${fn:contains(chart.extrusion,'11')}">
checked="yes"</c:if>/></td>

            <td>Extrusion</td>

            <td><input type="checkbox"
name="intrusion" id="intrusion11"
value="11" onclick="drawIntrusion()" <c:if
test="${fn:contains(chart.intrusion,'11')}">
checked="yes"</c:if>/></td>

            <td>Intrusion</td>

            <td><input type="checkbox"
name="mesialdrift" id="mesialdrift11"
value="11" onclick="drawMesialdrift()"
<c:if
test="${fn:contains(chart.mesialdrift,'11')}"
>checked="yes"</c:if>/></td>

            <td>Mesial Drifting
Rotation</td>

            <td><input type="checkbox"
name="distaldrift" id="distaldrift11"
value="11" onclick="drawDistaldrift()"
<c:if
test="${fn:contains(chart.distaldrift,'11')}"
>checked="yes"</c:if>/></td>

            <td>Distal Drifting
Rotation</td>
                        </tr><br/>
                        <tr>

            <td><input type="checkbox"
name="rotation" id="rotation11"
value="11" onclick="drawRotation()" <c:if
test="${fn:contains(chart.rotation,'11')}">c
hecked="yes"</c:if>/></td>

            <td>Rotation</td>

            <td><input type="checkbox"
name="postcorecrown"
id="postcorecrown11" value="11"
onclick="drawPostcorecrown()" <c:if
test="${fn:contains(chart.postcorecrown,'1
1')}">checked="yes"</c:if>/></td>

            <td>Post Core Crown</td>

            <td><input type="checkbox"
name="rootcanal" value="11"
id="rootcanal11"
onclick="drawRootcanal()" <c:if
test="${fn:contains(chart.rootcanal,'11')}">
checked="yes"</c:if>/></td>

            <td>Root Canal
Treatment</td>

            <td><input type="checkbox"
name="pitandfissure" value="11"
id="pitfissure11"
onclick="drawPitfissure()" <c:if
test="${fn:contains(chart.pitandfissure,'11')
}">checked="yes"</c:if>/></td>
                                    <td>Pit
and Fissure Sealants</td>
                        </tr><br/>
                        <tr>

            <td><input type="checkbox"
name="extracted" id="extracted11"
value="11" onclick="drawExtracted()"
<c:if
test="${fn:contains(chart.extracted,'11')}">
checked="yes"</c:if>/></td>

            <td>Extracted</td>

            <td><input type="checkbox"
name="missing" id="missing11"
value="11" onclick="drawMissing()" <c:if
test="${fn:contains(chart.missing,'11')}">c
hecked="yes"</c:if>/></td>

            <td>Missing</td>

            <td><input type="checkbox"
name="unerupted" id="unerupted11"
value="11" onclick="drawUnerupted()"
<c:if
test="${fn:contains(chart.unerupted,'11')}"
>checked="yes"</c:if>/></td>

            <td>Unerupted</td>

            <td><input type="checkbox"
name="impacted" id="impacted11"
value="11" onclick="drawImpacted()"
<c:if
test="${fn:contains(chart.impacted,'11')}">
checked="yes"</c:if>/></td>

            <td>Impacted</td>
                        </tr><br/>
                        <tr>

            <td><input type="checkbox"
name="porcelainfused"
id="porcelainfused11" value="11"
onclick="drawPorcelainfused()" <c:if
test="${fn:contains(chart.porcelainfused,'1
1')}">checked="yes"</c:if>/></td>

            <td>Porcelain Fused to
Metal</td>

            <td><input type="checkbox"
name="acryliccrown" id="acryliccrown11"
value="11" onclick="drawAcryliccrown()"
<c:if
test="${fn:contains(chart.acryliccrown,'11')
}">checked="yes"</c:if>/></td>

            <td>Acrylic Crown</td>

            <td><input type="checkbox"
name="metalcrown" id="metalcrown11"
value="11" onclick="drawMetalcrown()"
<c:if
test="${fn:contains(chart.metalcrown,'11')}
">checked="yes"</c:if>/></td>

            <td>Metal Crown</td>

            <td><input type="checkbox"
name="porcelaincrown"
id="porcelaincrown11" value="11"
onclick="drawPorcelaincrown()" <c:if
test="${fn:contains(chart.porcelaincrown,'1
1')}">checked="yes"</c:if>/></td>

            <td>Porcelain Crown</td>
                        </tr><br/>
                        <tr>

            <td><input type="checkbox"
name="removablepartial" value="11"
id="removablepartial11"
onclick="drawRemovable()" <c:if
test="${fn:contains(chart.removablepartial,'
11')}">checked="yes"</c:if>/></td>

            <td>Removable Partial
Denture</td>

            <td><input type="checkbox"
name="fixedbridge" id="fixedbridge11"
value="11" onclick="drawFixedbridge()"
<c:if
test="${fn:contains(chart.fixedbridge,'11')}
">checked="yes"</c:if>/></td>

            <td>Fixed Bridge</td>

            <td><input type="checkbox"
name="restorable" id="restorable11"
value="11" onclick="drawRestorable()"
<c:if
test="${fn:contains(chart.restorable,'11')}"
>checked="yes"</c:if>/></td>

            <td>Restorable</td>

            <td><input type="checkbox"
name="nonrestorable"
id="nonrestorable11" value="11"
onclick="drawNonrestorable()" <c:if
```

```
test="${fn:contains(chart.nonrestorable,'11'
)}">checked="yes"</c:if>/></td>

                <td>Non-restorable</td>
                        </tr>
                        </table>
                        <hr>
                        <br/><br/>
                        <b>Services
needed</b><br/>
                        <hr>
                        <u>Operative
Dentistry</u><br/>
                        <input
type="checkbox" name="class1"
value="11" <c:if
test="${fn:contains(services.class1,'11')}">
checked="yes"</c:if>>Class I
                        <input
type="checkbox" name="class2"
value="11" <c:if
test="${fn:contains(services.class2,'11')}">
checked="yes"</c:if>>Class II
                        <input
type="checkbox" name="class3"
value="11" <c:if
test="${fn:contains(services.class3,'11')}">
checked="yes"</c:if>>Class III
                        <input
type="checkbox" name="class4"
value="11" <c:if
test="${fn:contains(services.class4,'11')}">
checked="yes"</c:if>>Class IV
                        <input
type="checkbox" name="class5"
value="11" <c:if
test="${fn:contains(services.class5,'11')}">
checked="yes"</c:if>>Class V
                        <input
type="checkbox" name="onlay"
value="11" <c:if
test="${fn:contains(services.onlay,'11')}">
checked="yes"</c:if>>Onlay
                        <br/><br/>
                        <u> Surgery
</u><br/>
                        <input
type="checkbox" name="extraction"
value="11" <c:if
test="${fn:contains(services.extraction,'11')
}">checked="yes"</c:if>>Extraction
                        <input
type="checkbox" name="odontectomy"
value="11" <c:if
test="${fn:contains(services.odontectomy,'
11')}">checked="yes"</c:if>>Odontectom
y
                        <input
type="checkbox" name="specialcase"
value="11" <c:if
test="${fn:contains(services.specialcase,'11
')}">checked="yes"</c:if>>Special Case
                        <br/><br/>
                        <u> Emergency
Treatment </u><br/>
                        <input
type="checkbox" name="pulpsedation"
value="11" <c:if
test="${fn:contains(services.pulpsedation,'
11')}">checked="yes"</c:if>>Pulp
Sedation
                        <input
type="checkbox"
name="crownrecementation" value="11"
<c:if
test="${fn:contains(services.crownrecemen
tation,'11')}">checked="yes"</c:if>>Rece
mentation of crowns
                        <input
type="checkbox" name="fillingservice"
value="11" <c:if
test="${fn:contains(services.fillingservice,'
11')}">checked="yes"</c:if>>Temporary
fillings
                        <br/><br/>
                        <u> Fixed Partial
Dentures </u><br/>
                        <input
type="checkbox" name="laminated"
value="11" <c:if
test="${fn:contains(services.laminated,'11')
}">checked="yes"</c:if>>Laminated
                        <input
type="checkbox" name="singlecrown"
value="11" <c:if
test="${fn:contains(services.singlecrown,'1
1')}">checked="yes"</c:if>>Single Crown
                        <input
type="checkbox" name="bridgeservice"
value="11" <c:if
test="${fn:contains(services.bridgeservice,'
11')}">checked="yes"</c:if>>Bridge
                        <br/><br/>
                        <u> Endodontics
</u><br/>
                        <input
type="checkbox" name="anterior"
value="11" <c:if
test="${fn:contains(services.anterior,'11')}"
>checked="yes"</c:if>>Anterior
                        <input
type="checkbox" name="posterior"
value="11" <c:if
test="${fn:contains(services.posterior,'11')}
">checked="yes"</c:if>>Posterior
                        <input
type="checkbox"
name="otherendodontics" value="11" <c:if
test="${fn:contains(services.otherendodont
ics,'11')}">checked="yes"</c:if>>Others
(Endosurgery, Bleaching, etc.)
                        <br/><br/>
                        <hr>
                        <a href =
"javascript:void(0)" onclick =
"document.getElementById('light11').style.
display='none';document.getElementById('
fade11').style.display='none'">Submit</a>
</div>
                        <div id="fade11"
class="black_overlay"></div>
                        </div>
                </font>
                </div>

                <div id="dentureslight"
class="white_content">
                        <font size = "2">
                        <b>Dentures
Status</b><br/>
                        <hr>
                        <input
type="checkbox" name="completedenture"
value="yes" id="completedenture"
onclick="drawCompletedenture()" <c:if
test="${fn:contains(chart.completedenture,'
yes')}">checked="yes"</c:if>>Complete
Denture
                        <br/><br/>
                        <u> Single Denture
</u><br/>
                        <input
type="checkbox" name="singledenture"
value="upper" id="upperdenture"
onclick="drawUpperDenture()" <c:if
test="${fn:contains(chart.singledenture,'up
per')}">checked="yes"</c:if>>Upper
Single Denture <br/>
                        <input
type="checkbox" name="singledenture"
value="lower" id="lowerdenture"
onclick="drawLowerDenture()" <c:if
test="${fn:contains(chart.singledenture,'lo
wer')}">checked="yes"</c:if>>Lower
Single Denture <br/>
                        <hr>
                        <a href =
"javascript:void(0)" onclick =
"document.getElementById('dentureslight')
.style.display='none';document.getElement
ById('denturesfade').style.display='none'">
Done</a></div>
                        <div
id="denturesfade"
class="black_overlay"></div>
                        </div>
                </font>
                </div>

                <div id="serviceslight"
class="white_content">
                        <font size = "2">
                        <b>Other
Services</b><br/>
                        <hr>

                <u>Periodontics</u><br/>
                        <input
type="checkbox" name="periodontics"
value="yes" <c:if
test="${fn:contains(services.periodontics,'y
es')}">checked="yes"</c:if>>Management
of Periodontal Disease
                        <br/><br/>
                        <u> Surgery
</u><br/>
                        <input
type="checkbox" name="surgery"
value="pedodontics" <c:if
test="${fn:contains(services.surgery,'pedod
ontics')}">checked="yes"</c:if>>Pedodont
ics <br/>
                        <input
type="checkbox" name="surgery"
value="orthodontics" <c:if
test="${fn:contains(services.surgery,'ortho
dontics')}">checked="yes"</c:if>>Orthodo
ntics
                        <br/><br/>
                        <u> Emergency
Treatment </u><br/>
                        <input
type="checkbox"
name="emergencytreatment" value="acute
infections" <c:if
test="${fn:contains(services.emergencytrea
tment,'acute
infections')}">checked="yes"</c:if>>Mana
gement of acute infections <br/>
                        <input
type="checkbox"
name="emergencytreatment"
```

```
value="traumatic injuries" <c:if
test="${fn:contains(services.emergencytrea
tment,'traumatic
injuries')}">checked="yes"</c:if>>Manage
ment of Temporary Injuries
                        <br/><br/>
                        <u> Prosthodontics
</u><br/>
                        <input
type="checkbox" name="prosthodontics"
value="complete denture" <c:if
test="${fn:contains(services.prosthodontics
,'complete
denture')}">checked="yes"</c:if>>Comple
te Denture<br/>
                        <input
type="checkbox" name="prosthodontics"
value="single denture" <c:if
test="${fn:contains(services.prosthodontics
,'single
denture')}">checked="yes"</c:if>>Single
Denture<br/>
                        <input
type="checkbox" name="prosthodontics"
value="removable partial" <c:if
test="${fn:contains(services.prosthodontics
,'removable
partial')}">checked="yes"</c:if>>Remova
ble Partial Denture<br/>
                        <input
type="checkbox" name="prosthodontics"
value="others" <c:if
test="${fn:contains(services.prosthodontics
,'others')}">checked="yes"</c:if>>Other
Denture Services
                        <br/><br/>
                        <hr>
                        <a href =
"javascript:void(0)" onclick =
"document.getElementById('serviceslight').
style.display='none';document.getElementB
yId('servicesfade').style.display='none'">Su
bmit</a></div>
                        <div
id="servicesfade"
class="black_overlay"></div>
                        </div>
                </font>
                </div>

headerMenu.js

<ul id="menu">

                <openmrs:hasPrivilege
privilege="Access Dental Module Index">
                        <li <c:if test='<%=
request.getRequestURI().contains("index")
%>'>class="active"</c:if>>
                                        <a
href="/openmrs/module/dental/indexLink.f
orm">

                <spring:message
code="Index"/>
                                        </a>
                        </li>
                </openmrs:hasPrivilege>

                <openmrs:hasPrivilege
privilege="Manage Dental Records">
                        <li <c:if test='<%=
request.getRequestURI().contains("searchP
atientForm") %>'>class="active"</c:if>
                                        <c:if test='<%=
request.getRequestURI().contains("manage
Patient") %>'>class="active"</c:if>
                                        <c:if
test='<%=
request.getRequestURI().contains("dentalF
orms") %>'>class="active"</c:if>
                                        <c:if
test='<%=
request.getRequestURI().contains("dentalC
hart") %>'>class="active"</c:if>
                                        <c:if
test='<%=
request.getRequestURI().contains("viewRe
cord") %>'>class="active"</c:if>
                                        <c:if
test='<%=
request.getRequestURI().contains("viewAr
chive") %>'>class="active"</c:if>
                                        <c:if
test='<%=
request.getRequestURI().contains("viewVe
rsion") %>'>class="active"</c:if>>
                                        <a
href="/openmrs/module/dental/searchPatie
ntLink.form">

                <spring:message
code="Manage Dental Records"/>
                                        </a>
                        </li>
                </openmrs:hasPrivilege>
                <openmrs:hasPrivilege
privilege="Search">
                        <li <c:if test='<%=
request.getRequestURI().contains("researc
hForm") %>'>class="active"</c:if>>
                                        <a
href="/openmrs/module/dental/researchLin
k.form">

                <spring:message
code="Search"/>
                                        </a>
                        </li>
                </openmrs:hasPrivilege>
                <openmrs:hasPrivilege
privilege="Record Views Log">
                        <li <c:if test='<%=
request.getRequestURI().contains("viewsL
og") %>'>class="active"</c:if>>
                                        <a
href="/openmrs/module/dental/viewsLog.f
orm">

                <spring:message code="Patient
Record Views Log"/>
                                        </a>
                        </li>
                </openmrs:hasPrivilege>
</ul>

Index.js

<%@ include file="/WEB-
INF/template/include.jsp"%>

<%@ include file="/WEB-
INF/template/header.jsp"%>

<%@ include file="headerMenu.jsp" %>

<openmrs:htmlInclude
file="/scripts/calendar/calendar.js" />

<center><img
src="${pageContext.request.contextPath}/
moduleResources/dental/upcd.png"><h2><
spring:message code="Electronic Dental
Records System" /></h2>
<h3> University of the Philippines College
of Dentistry</h3></center>

<br/>


<%@ include file="/WEB-
INF/template/footer.jsp"%>

Searchlogs.js

<%@ include file="/WEB-
INF/template/include.jsp"%>

<%@ include file="/WEB-
INF/template/header.jsp"%>

<%@ include file="headerMenu.jsp" %>
<style type="text/css">
table.views {
                border-width: 1px;
                border-spacing: 1px;
                border-style: solid;
                border-color: black;
                border-collapse: separate;
                background-color: white;
}
table.views td {
                border-width: 1px;
                padding: 1px;
                border-style: solid;
                border-color: black;
                background-color: white;
                -moz-border-radius: ;
}
.button {

                background-color: #fff;
                border: 1px solid #1aac9b;
                text-decoration: none;
                color: #1aac9b;
}
</style>
<h2><spring:message code="Patient
Record Views Log" /></h2>
<c:set var="month" value="${month}"/>
<c:set var="year" value="${year}"/>
<h3>${month} ${year}</h3>
<table class="views">
  <c:set var="emptyview"
value="${checkviews}"/>
  <c:if test="${emptyview == true }">
                no views found
  </c:if>

  <c:if test="${emptyview == false }">
<tr>
                <td><b>Patient
Name</b></td>
                <td><b>Accessed By
(Username)</b></td>
                <td><b>User Full Name</b>
                <td><b>Date
Accessed</b></td>
                <td><b>Time
Accessed</b></td>
</tr>
</c:if>
```

```
  <c:forEach var="views"
items="${searchlogs}">
    <tr>

            <td><center>${views.patientna
me}</center></td>

            <td><center>${views.usernam
e}</center></td>

            <td><center>${views.userfulln
ame}</center></td>

<td><center>${views.accessdate}</center>
</td>

<td><center>${views.accesstime}</center
></td>
    </tr>
  </c:forEach>
  </table>
  <br/><br/>
  <form name="searchlogs"
action="searchLogs.form" method="post">
  Select Month and Year <select
name="month">

                        <option
value="January">January</option>

                        <option
value="February">February</option>

                        <option
value="March">March</option>

                        <option
value="April">April</option>

                        <option
value="May">May</option>

                        <option
value="June">June</option>

                        <option
value="July">July</option>

                        <option
value="August">August</option>

                        <option
value="September">September</option>

                        <option
value="October">October</option>

                        <option
value="November">November</option>

                        <option
value="December">December</option></s
elect>

                        <input
type="text" name="year" maxlength="4"
size="5">

                        <input
type="submit" class="button">
  </form>

<%@ include file="/WEB-
INF/template/footer.jsp"%>
```

Searchresults.js

```
<%@ include file="/WEB-
INF/template/include.jsp"%>

<%@ include file="/WEB-
INF/template/header.jsp"%>

<%@ include file="headerMenu.jsp" %>

<openmrs:htmlInclude
file="/scripts/calendar/calendar.js" />

<h2><spring:message code="Search
Results" /></h2>
<c:set var="occucount"
value="${occupationcount}"/>
<c:set var="complaintcount"
value="${chiefcomplaintcount}"/>

<c:if test="${occucount == 0 }">
Occupation result:
No results found. <br/>
</c:if>
<c:if test="${occucount > 0 }">
Occupation result: <br/>
<b>${occucount} results found. </b><br/>
<c:forEach var="info"
items="${occupation}">
            <a
href="viewRecord.form?patientId=${info.p
atientid}">Patient Id ${info.patientid}
version ${info.version}</a><br/>
</c:forEach>
</c:if>
<br/>

<c:if test="${complaintcount == 0 }">
Chief Complaint result:
No results found. <br/>
</c:if>
<c:if test="${complaintcount > 0 }">
Chief Complaint result: <br/>
<b>${complaintcount} results found.
</b><br/>
<c:forEach var="chiefcomplaint"
items="${chiefcomplaint}">
            <a
href="viewRecord.form?patientId=${chiefc
omplaint.patientid}">Patient Id
${chiefcomplaint.patientid}</a> version
${chiefcomplaint.version}<br/>
</c:forEach>
</c:if>
<br/>

Caries result: <br/>
<c:forEach var="caries"
items="${caries}">
            <a
href="viewRecord.form?patientId=${caries
.patientid}">Patient Id ${caries.patientid}
version ${caries.version}</a><br/>
</c:forEach>
<br/>
Recurrent Caries result: <br/>
<c:forEach var="recurrentcaries"
items="${recurrentcaries}">
            <a
href="viewRecord.form?patientId=${recurr
entcaries.patientid}">Patient Id
${recurrentcaries.patientid} version
${recurrentcaries.version}</a><br/>
</c:forEach>
<br/>
Amalgam result: <br/>
<c:forEach var="amalgam"
items="${amalgam}">
            <a
href="viewRecord.form?patientId=${amalg
am.patientid}">Patient Id
${amalgam.patientid} version
${amalgam.version}</a><br/>
</c:forEach>
<br/>
Composite result: <br/>
<c:forEach var="composite"
items="${composite}">
            <a
href="viewRecord.form?patientId=${comp
osite.patientid}">Patient Id
${composite.patientid} version
${composite.version}</a><br/>
</c:forEach>
<br/>
Glass Ionomer result: <br/>
<c:forEach var="glassionomer"
items="${glassionomer}">
            <a
href="viewRecord.form?patientId=${glassi
onomer.patientid}">Patient Id
${glassionomer.patientid} version
${glassionomer.version}</a><br/>
</c:forEach>
<br/>
Temporary Filling result: <br/>
<c:forEach var="tempfilling"
items="${tempfilling}">
            <a
href="viewRecord.form?patientId=${tempf
illing.patientid}">Patient Id
${tempfilling.patientid} version
${tempfilling.version}</a><br/>
</c:forEach>
<br/>
<%@ include file="/WEB-
INF/template/footer.jsp"%>
```

Updateconsultation.js

```
<%@ include file="/WEB-
INF/template/include.jsp"%>

<%@ include file="/WEB-
INF/template/header.jsp"%>

<%@ include file="headerMenu.jsp" %>

<openmrs:htmlInclude
file="/scripts/calendar/calendar.js" />
<openmrs:htmlInclude
file="/moduleResources/dental/jquery.min.j
s" />
<openmrs:htmlInclude
file="/moduleResources/dental/showradiog
raphic.js" />
<openmrs:htmlInclude
file="/moduleResources/dental/showreferra
ls.js" />

<h2><spring:message code="View Patient
Record" /></h2>
<c:set var="patient"
value="${thePatientList}"/>
<h3>Patient: ${patient.personName}</h3>
```

```
<%  String id =
request.getParameter("patientId");
		int patientID =
Integer.parseInt(id);
		String ver =
request.getParameter("consultationversion"
);
		int infover =
Integer.parseInt(ver);%>

<style type="text/css">
body {
		background: #fff;
		margin: 0;
		padding: 0;
		color: #000;
}
h1 {font-size: 3em; margin: 20px 0;}
.container {width: 1230px; margin: 5px;}
ul.tabs {
		margin: 0;
		padding: 0;
		float: left;
		list-style: none;
		height: 32px;
		border-bottom: 1px solid #999;
		border-left: 1px solid #999;
		width: 100%;
}
ul.tabs li {
		float: left;
		margin: 0;
		padding: 0;
		height: 31px;
		line-height: 31px;
		border: 1px solid #999;
		border-left: none;
		margin-bottom: -1px;
		background: #1aac9b;
		overflow: hidden;
		position: relative;
		font-size: 12px;
}
ul.tabs li a {
		text-decoration: none;
		color: #fff;
		display: block;
		font-size: 1.2em;
		padding: 0 20px;
		border: 1px solid #fff;
		outline: none;
		font-size: 12px;
}
ul.tabs li a:hover {
		background: #fff;
		font-size: 12px;
		color: #1aac9b;
}

html ul.tabs li.active, html ul.tabs li.active
a:visited{
		background: #fff;
		border-bottom: 1px solid #fff;
		font-size: 12px;
		color: #1aac9b;
}

.tab_container {
		border: 1px solid #999;
		border-top: none;
		clear: both;
		float: left;
		width: 100%;
		background: #fff;
		-moz-border-radius-
bottomright: 5px;
		-khtml-border-radius-
bottomright: 5px;
		-webkit-border-bottom-right-
radius: 5px;
		-moz-border-radius-bottomleft:
5px;
		-khtml-border-radius-
bottomleft: 5px;
		-webkit-border-bottom-left-
radius: 5px;
		font-size: 12px;
}
.tab_content {
		padding: 20px;
		font-size: 1.2em;
}
.tab_content h2 {
		font-weight: normal;
		padding-bottom: 10px;
		border-bottom: 2px dashed
#1aac9b;
		font-size: 1.5em;
}
.tab_content h3 a{
		color: #254588;
}
.tab_content img {
		float: left;
		margin: 0 20px 20px 0;
		border: 1px solid #ddd;
		padding: 5px;
}
.tab {
		color: #fff;
}
.tab:visited {
		color: #000;
}
.button {

		background-color: #fff;
		border: 1px solid #1aac9b;
		text-decoration: none;
		color: #1aac9b;
}
</style>
<script type="text/javascript">

$(document).ready(function() {

		//Default Action
		$(".tab_content").hide(); //Hide
all content
		$("ul.tabs
li:first").addClass("active").show();
//Activate first tab
		$(".tab_content:first").show();
//Show first tab content

		//On Click Event
		$("ul.tabs li").click(function() {
				$("ul.tabs
li").removeClass("active"); //Remove any
"active" class

		$(this).addClass("active");
//Add "active" class to selected tab

		$(".tab_content").hide(); //Hide
all tab content
				var activeTab =
$(this).find("a").attr("href"); //Find the rel
attribute value to identify the active tab +
content

		$(activeTab).fadeIn(); //Fade in
the active content
				return false;
		});

});
</script>
</head>

<body>
<form name="consultationform"
action="successfulReferral.form?patientId=
<%out.print(patientID);%>"
method="POST">
<div class="container">
   <font color="white"></font><ul
class="tabs">
      <b><li><a
href="#tab1">Consultations/Referrals</a>
</li> </b>
   </ul> </font>
   <div class="tab_container">
      <div id="tab1" class="tab_content">
		<c:set var="consultations"
value="${consultations}"/>
		<input type="hidden"
name="id" value="${consultations.id}"/>
		<input type="hidden"
name="patientid"
value="<%out.print(patientID);%>"/>
			<input
type="hidden" name="updatedby"
value="${user}"/>
			<input
type="hidden" name="dateupdated"
value="${date}"/>
				<input
type="hidden" name="timeupdated"
value="${time}"/>
		<h2>Consultations/Referral:
Include Medical Referrals</h2>
		<input type="hidden"
name="consultationversion"
value="${consultations.consultationversion
}"/>
				<table>

		<tr>

			<td>Date</td>

			<td><input
type="text" name="consultationdate"
size="25"
value="${consultations.consultationdate}"/
></td>

		</tr>

		<tr>

			<td>Reason for
consultation</td>

			<td><input
type="text" name="consultationreason"
size="25"
value="${consultations.consultationreason
}"/></td>

		</tr>
```

```
		<tr>

			<td>From</td>

			<td><input
type="text" name="consultationfrom"
size="25"
value="${consultations.consultationfrom
}"/></td>

		</tr>

		<tr>

			<td>To</td>

			<td><input
type="text" name="consultationto"
size="25"
value="${consultations.consultationto
}"/></td>

		</tr>

		<tr>



		<td>Findings/Recommendation
</td>

			<td><input
type="text" name="consultationfindings"
size="25"
value="${consultations.consultationfinding
s }"/></td>

		</tr>

		<tr>

			<td>Name of
Clinician</td>

			<td><input
type="text" name="consultationclinician"
size="25"
value="${consultations.consultationclinicia
n }"/></td>

		</tr>

		<tr>

			<td>Clinician
Nature</td>

			<td><input
type="text"
name="consultationcliniciannature"
size="25"
value="${consultations.consultationclinicia
nnature }"/></td>

		</tr>

		</table>
					</br>

	</div>
	</div>
    </div>
    <input type="submit" onclick="return
confirm('The information on this page will
be saved. Proceed to the next page?')"
class="button">
</form>
</body>
```

Viewarchive.js

```
<%@ include file="/WEB-
INF/template/include.jsp"%>

<%@ include file="/WEB-
INF/template/header.jsp"%>

<%@ include file="headerMenu.jsp" %>

<openmrs:htmlInclude
file="/scripts/calendar/calendar.js" />
<c:set var="patient"
value="${thePatientList}"/>
<%  String id =
request.getParameter("patientId");
		int patientID =
Integer.parseInt(id); %>
<c:set var="user"
value="${currentUser}"/>
<c:set var="date"
value="${currentDate}"/>
<c:set var="time"
value="${currentTime}"/>
<c:set var="month" value="${month}"/>
<c:set var="exactdate"
value="${exactdate}"/>
<c:set var="userfullname"
value="${userfullname}"/>
<c:set var="year" value="${year}"/>

<style type="text/css">
table.views {
		border-width: 1px;
		border-spacing: 1px;
		border-style: solid;
		border-color: black;
		border-collapse: separate;
		background-color: white;
}
table.views td {
		border-width: 1px;
		padding: 1px;
		border-style: solid;
		border-color: black;
		background-color: white;
		-moz-border-radius: ;
}
.button {

		background-color: #fff;
		border: 0;
		text-decoration: underline;
		color: navy;
}
.button:hover {
   text-decoration: none;
   cursor: pointer;
}
</style>

<h2><spring:message code="View Patient
Record Archive" /></h2>
<h3>Patient: ${patient.personName}</h3>
<table class="views">
 <c:set var="emptyversion"
value="${checkversions}"/>
<c:if test="${emptyversion == true }">
no records found
</c:if>
<c:if test="${emptyversion == false }">
		<tr>
			<td>Version</td>
			<td>Date
Updated</td>
			<td>Time
Updated</td>
		</tr>
</c:if>
<c:forEach var="info"
items="${infolist}">
		<tr>
			<td><form
name="views"
action="viewVersion.form?patientId=${inf
o.patientid}&version=${info.version}"
method="post">
			<input
type="hidden" name="patientid"
value=<%out.println(patientID); %>/>
<input type="hidden" name="patientname"
value="${patient.personName}"/>
<input type="hidden" name="username"
value="${user}"/>
<input type="hidden"
name="userfullname"
value="${userfullname}"/>
<input type="hidden" name="accessdate"
value="${date}"/>
<input type="hidden" name="accesstime"
value="${time}"/>
<input type="hidden" name="month"
value="${month}"/>
<input type="hidden" name="exactdate"
value="${exactdate}"/>
<input type="hidden" name="year"
value="${year}"/>
<input type="submit" name="submit"
value="Version ${info.version}"
class="button"></form><!--<a
href="viewVersion.form?patientId=${info.
patientid}&version=${info.version}"
onclick="document.getElementById('views
').submit();">Version ${info.version}--
></td>

		<td>${info.dateupdated}</td>

		<td>${info.timeupdated}</td>
		</tr>
</c:forEach>
</table>
<br/>


<%@ include file="/WEB-
INF/template/footer.jsp"%>
```

Viewconsultation.js

```
<%@ include file="/WEB-
INF/template/include.jsp"%>

<%@ include file="/WEB-
INF/template/header.jsp"%>

<%@ include file="headerMenu.jsp" %>

<openmrs:htmlInclude
file="/scripts/calendar/calendar.js" />
<openmrs:htmlInclude
file="/moduleResources/dental/jquery.min.j
s" />
```

```
<openmrs:htmlInclude
file="/moduleResources/dental/showradiog
raphic.js" />
<openmrs:htmlInclude
file="/moduleResources/dental/showreferra
ls.js" />

<h2><spring:message code="View Patient
Record" /></h2>
<c:set var="patient"
value="${thePatientList}"/>
<h3>Patient: ${patient.personName}</h3>

 <%  String id =
request.getParameter("patientId");
                int patientID =
Integer.parseInt(id); %>

<style type="text/css">
body {
                background: #fff;
                margin: 0;
                padding: 0;
                color: #000;
}
h1 {font-size: 3em; margin: 20px 0;}
.container {width: 1230px; margin: 5px;}
ul.tabs {
                margin: 0;
                padding: 0;
                float: left;
                list-style: none;
                height: 32px;
                border-bottom: 1px solid #999;
                border-left: 1px solid #999;
                width: 100%;
}
ul.tabs li {
                float: left;
                margin: 0;
                padding: 0;
                height: 31px;
                line-height: 31px;
                border: 1px solid #999;
                border-left: none;
                margin-bottom: -1px;
                background: #1aac9b;
                overflow: hidden;
                position: relative;
                font-size: 12px;
}
ul.tabs li a {
                text-decoration: none;
                color: #fff;
                display: block;
                font-size: 1.2em;
                padding: 0 20px;
                border: 1px solid #fff;
                outline: none;
                font-size: 12px;
}
ul.tabs li a:hover {
                background: #fff;
                font-size: 12px;
                color: #1aac9b;
}

html ul.tabs li.active, html ul.tabs li.active
a:visited{
                background: #fff;
                border-bottom: 1px solid #fff;
                font-size: 12px;
                color: #1aac9b;
}
.tab_container {
                border: 1px solid #999;
                border-top: none;
                clear: both;
                float: left;
                width: 100%;
                background: #fff;
                -moz-border-radius-
bottomright: 5px;
                -khtml-border-radius-
bottomright: 5px;
                -webkit-border-bottom-right-
radius: 5px;
                -moz-border-radius-bottomleft:
5px;
                -khtml-border-radius-
bottomleft: 5px;
                -webkit-border-bottom-left-
radius: 5px;
                font-size: 12px;
}
.tab_content {
                padding: 20px;
                font-size: 1.2em;
}
.tab_content h2 {
                font-weight: normal;
                padding-bottom: 10px;
                border-bottom: 2px dashed
#1aac9b;
                font-size: 1.5em;
}
.tab_content h3 a{
                color: #254588;
}
.tab_content img {
                float: left;
                margin: 0 20px 20px 0;
                border: 1px solid #ddd;
                padding: 5px;
}
.tab {
                color: #fff;
}
.tab:visited {
                color: #000;
}
.button {

                background-color: #fff;
                border: 1px solid #1aac9b;
                text-decoration: none;
                color: #1aac9b;
}
</style>
<script type="text/javascript">

$(document).ready(function() {

                //Default Action
                $(".tab_content").hide(); //Hide
all content
                $("ul.tabs
li:first").addClass("active").show();
//Activate first tab
                $(".tab_content:first").show();
//Show first tab content

                //On Click Event
                $("ul.tabs li").click(function() {
                                $("ul.tabs
li").removeClass("active"); //Remove any
"active" class
                                $(this).addClass("active");
//Add "active" class to selected tab

                $(".tab_content").hide(); //Hide
all tab content
                                var activeTab =
$(this).find("a").attr("href"); //Find the rel
attribute value to identify the active tab +
content

                $(activeTab).fadeIn(); //Fade in
the active content
                                return false;
                });

});
</script>
</head>

<body>

<div class="container">
   <font color="white"></font><ul
class="tabs">
      <b><li><a
href="#tab1">Consultations/Referrals</a>
</li> </b>
   </ul> </font>
   <div class="tab_container">
      <div id="tab1" class="tab_content">
                <c:set var="consultations"
value="${consultations}"/>
         <h2>Consultations/Referral:
Include Medical Referrals</h2>
         <input type="hidden"
name="consultationversion"
value="${consultationversion}"/>
                                <table>

                <tr>

                                <td>Date</td>


                <td>${consultations.consultati
ondate}</td>

                </tr>

                <tr>

                                <td>Reason for
consultation</td>


                <td>${consultations.consultati
onreason }</td>

                </tr>

                <tr>

                                <td>From</td>


                <td>${consultations.consultati
onfrom }</td>

                </tr>

                <tr>

                                <td>To</td>
```

```
		<td>${consultations.consultationto }</td>

		</tr>

		<tr>


		<td>Findings/Recommendation</td>


		<td>${consultations.consultationfindings }</td>

		</tr>

		<tr>

			<td>Name of Clinician</td>


		<td>${consultations.consultationclinician }</td>

		</tr>

		<tr>

			<td>Clinician Nature</td>


		<td>${consultations.consultationcliniciannature }</td>

		</tr>

		</table>
				</br>

	</div>
	</div>
   </div>
</body>
```

viewRecord.js

```
<%@ include file="/WEB-INF/template/include.jsp"%>

<%@ include file="/WEB-INF/template/header.jsp"%>

<%@ include file="headerMenu.jsp" %>

<openmrs:htmlInclude file="/scripts/calendar/calendar.js" />
<openmrs:htmlInclude file="/moduleResources/dental/jquery.min.js" />
<openmrs:htmlInclude file="/moduleResources/dental/showradiographic.js" />
<openmrs:htmlInclude file="/moduleResources/dental/showreferrals.js" />

<h2><spring:message code="View Patient Record" /></h2>

<c:set var="patient" value="${thePatientList}"/>
<h3>Patient: ${patient.personName}</h3>

 <%  String id = request.getParameter("patientId");
		int patientID = Integer.parseInt(id); %>

<style type="text/css">
body {
		background: #fff;
		margin: 0;
		padding: 0;
		color: #000;
}
h1 {font-size: 3em; margin: 20px 0;}
.container {width: 1230px; margin: 5px;}
ul.tabs {
		margin: 0;
		padding: 0;
		float: left;
		list-style: none;
		height: 32px;
		border-bottom: 1px solid #999;
		border-left: 1px solid #999;
		width: 100%;
}
ul.tabs li {
		float: left;
		margin: 0;
		padding: 0;
		height: 31px;
		line-height: 31px;
		border: 1px solid #999;
		border-left: none;
		margin-bottom: -1px;
		background: #1aac9b;
		overflow: hidden;
		position: relative;
		font-size: 12px;
}
ul.tabs li a {
		text-decoration: none;
		color: #fff;
		display: block;
		font-size: 1.2em;
		padding: 0 20px;
		border: 1px solid #fff;
		outline: none;
		font-size: 12px;
}
ul.tabs li a:hover {
		background: #fff;
		font-size: 12px;
		color: #1aac9b;
}

html ul.tabs li.active, html ul.tabs li.active a:visited{
		background: #fff;
		border-bottom: 1px solid #fff;
		font-size: 12px;
		color: #1aac9b;
}

.tab_container {
		border: 1px solid #999;
		border-top: none;
		clear: both;
		float: left;
		width: 100%;
		background: #fff;
		-moz-border-radius-bottomright: 5px;
		-khtml-border-radius-bottomright: 5px;
		-webkit-border-bottom-right-radius: 5px;
		-moz-border-radius-bottomleft: 5px;
		-khtml-border-radius-bottomleft: 5px;
		-webkit-border-bottom-left-radius: 5px;
		font-size: 12px;
}
.tab_content {
		padding: 20px;
		font-size: 1.2em;
}
.tab_content h2 {
		font-weight: normal;
		padding-bottom: 10px;
		border-bottom: 2px dashed #1aac9b;
		font-size: 1.5em;
}
.tab_content h3 a{
		color: #254588;
}
.tab_content img {
		float: left;
		margin: 0 20px 20px 0;
		border: 1px solid #ddd;
		padding: 5px;
}
.tab {
		color: #fff;
}
.tab:visited {
		color: #000;
}
.button {

		background-color: #fff;
		border: 1px solid #1aac9b;
		text-decoration: none;
		color: #1aac9b;
}
</style>
<script type="text/javascript">

$(document).ready(function() {

		//Default Action
		$(".tab_content").hide(); //Hide all content
		$("ul.tabs li:first").addClass("active").show(); //Activate first tab
		$(".tab_content:first").show(); //Show first tab content

		//On Click Event
		$("ul.tabs li").click(function() {
			$("ul.tabs li").removeClass("active"); //Remove any "active" class

		$(this).addClass("active"); //Add "active" class to selected tab

		$(".tab_content").hide(); //Hide all tab content
			var activeTab = $(this).find("a").attr("href"); //Find the rel
```

```
attribute value to identify the active tab + content

		$(activeTab).fadeIn(); //Fade in the active content
			return false;
		});

});
</script>
</head>

<body>

<div class="container">
   <font color="white"></font><ul class="tabs">
      <b><li><a href="#tab1">Patient Demographics</a></li>
      <li><a href="#tab2">Dental, Medical, & Social History</a></li>
      <li><a href="#tab3">Physical Assessment & Vital Signs</a></li>
			<li><a href="#tab4" class="tab">Examinations</a></li>
			<li><a href="#tab5" class="tab">Patient Checklist</a></li>
			<li><a href="#tab6" class="tab">Consultations/Referrals</a>
			<li><a href="#tab7" class="tab">Problem List Worksheet</a></li></b>
   </ul> </font>
   <div class="tab_container">
      <div id="tab1" class="tab_content">
		<br/>
        <h2>Patient Demographics</h2>
				<table>

		<c:set var="someone" value="${theAgeList}"/>

		<c:set var="address" value="${theAddrList}"/>

		<c:set var="sex" value="${theSexList}"/>

		<c:set var="info" value="${thePatientInfo}"/>


		<tr>

			<td>Name</td>


		<td>     ${patient.personName}</td>

		</tr>

		<tr>

			<td>Age</td>


		<td>     ${someone}</td>

		</tr>

		<tr>

			<td>Sex</td>


		<td>     ${sex}</td>

		</tr>

		<tr>

			<td>Address</td>


		<td>     ${address}</td>

		</tr>

		<tr>


		<td>Occupation</td>


		<td>     ${info.occupation}</td>

		</tr>

		<tr>

			<td>Educational Attainment</td>


		<td>     ${info.education}</td>

		</tr>

		<tr>

			<td>Phone Number</td>


		<td>     ${info.patientphone}</td>
			</tr>
			<tr>

		<td>Person to notify in case of emergency</td>

		<td>     ${info.guardian}</td>
			</tr>
			<tr>

		<td>Phone Number</td>

		<td>     ${info.guardianphone}</td>
			</tr>
			<tr>

		<td>Service Code</td>

		<td>     ${info.servicecode}</td>
			</tr>
			<tr>

		<td>Chief Complaint</td>

		<td>     ${info.chiefcomplaint}</td>
			</tr>
			<tr>

		<td>History of present illness</td>

		<td>     ${info.illnesshisto}</td>
			</tr>
		</table>

	</div>
	<div id="tab2" class="tab_content">
	<br/>
	   <h2>Dental History</h2>
	   <table>

		<c:set var="dentalhisto" value="${theDentalHistory}"/>

		<c:set var="medhisto" value="${theMedicalHistory}"/>

		<c:set var="socialhisto" value="${theSocialHistory}"/>

		<tr>

			<td>Date of last visit</td>


		<td>     ${dentalhisto.dolv}</td>

		</tr>

		<tr>

			<td>Procedures done on last visit</td>


		<td>     ${dentalhisto.lvprocedure}</td>

		</tr>

		<tr>

			<td>Frequency of dental visit</td>


		<td>     ${dentalhisto.dentfrequency}</td>
			</tr>
			<tr>

		<td>Exposure and response to local anesthesia</td>

		<td>     ${dentalhisto.dentanesthesia}</td>
			</tr>
			<tr>
```

```
<td>Complications during and
after dental procedure</td>

<td>   &nb
sp; ${dentalhisto.dentcomplications}
</td>
</tr>
</table>
<br/>
<h2>
Medical History</h2>
<table>
<tr>

<td>Physician Name</td>

<td>   &nb
sp; ${medhisto.physicianname}</td
>
</tr>
<tr>

<td>Phone Number</td>

<td>   &nb
sp; ${medhisto.physicianphone}</td
>
</tr>
<tr>

<td>Date of latest
hospitalization</td>

<td>   &nb
sp; ${medhisto.hospitaldate}"</td>
</tr>
<tr>

<td>Reason of
hospitalization</td>

<td>   &nb
sp; ${medhisto.hospitalreason}</td>
</tr>
<tr>

<td>Allergies</td>

<td>   &nb
sp; ${medhisto.allergies}</td>
</tr>
<tr>

<td>Illnesses</td>

<td>   &nb
sp; ${medhisto.illnesses}</td>
</tr>
<tr>

<td>Medications</td>

<td>   &nb
sp; ${medhisto.medications}</td>
</tr>
<tr>

<td>Childhood disease
history</td>

<td>   &nb
sp; ${medhisto.childhood}</td>
</tr>
</table>
<br/>
<h2> Social
History </h2>
<table>
<tr>

<td>Are you using or have you
used tobacco, cigarettes?</td>

<td>   &nb
sp; ${socialhisto.cigaruse}</td>
</tr>

<tr>

<td>   &nb
sp; What kind?</td>

<td>   &nb
sp; ${socialhisto.cigarkind}</td>
</tr>
<tr>

<td>   &nb
sp; How often?</td>

<td>   &nb
sp; ${socialhisto.cigaroften}</td>
</tr>
<tr>

<td>   &nb
sp; How many years?</td>

<td>   &nb
sp; ${socialhisto.cigaryears}</td>
</tr>
<tr>

<td>If stopped, how long since
last used?</td>

<td>   &nb
sp; ${socialhisto.cigarlast}</td>
</tr>

<tr>

<td>Do you drink alcoholic
beverage?</td>

<td>   &nb
sp; ${socialhisto.alcoholuse}</td>
</tr>

<tr>

<td>   &nb
sp; What kind?</td>

<td>   &nb
sp; ${socialhisto.alcoholkind}</td>
</tr>
<tr>

<td>   &nb
sp; How often?</td>

<td>   &nb
sp; ${socialhisto.alcoholoften}</td>
</tr>
<tr>

<td>   &nb
sp; How many years?</td>

<td>   &nb
sp; ${socialhisto.alcoholyears}</td>
</tr>
<tr>

<td>   &nb
sp; If stopped, how long since last
used?</td>

<td>   &nb
sp; ${socialhisto.alcohollast}</td>
</tr>
<tr>

<td>Have you ever used drugs
for recreation or non-therapeutic
purposes?</td>

<td>   &nb
sp; ${socialhisto.druguse}</td>
</tr>
<tr>

<td>   &nb
sp; What kind?</td>

<td>   &nb
sp; ${socialhisto.drugkind}</td>
</tr>
<tr>

<td>   &nb
sp; How often?</td>

<td>   &nb
sp; ${socialhisto.drugoften}</td>
</tr>
<tr>

<td>   &nb
sp; How many years?</td>

<td>   &nb
sp; ${socialhisto.drugyears}</td>
</tr>
<tr>

<td>   &nb
sp; If stopped, how long since last
used?</td>

<td>   &nb
sp; ${socialhisto.druglast}</td>
</tr>
</table>
</div>

<div id="tab3" class="tab_content">
<br/>
<h2>Physical Assessment</h2>
<table>

<c:set var="assessment"
value="${thePhysicalAssessment}"/>

<c:set var="vital"
value="${theVitalSigns}"/>

<tr>
```

```
                <td>Gait</td>

            <td>     ${assessment.gait}</td>

        </tr>

        <tr>

            <td>Appearance</td>

            <td>     ${assessment.appearance}</td>

        </tr>

        <tr>

                <td>Defects</td>

            <td>     ${assessment.defects}</td>

        </tr>

        </table>
                        </br>

        <h2>Vital Signs</h2>
                        <table>

        <tr>

                <td>Blood Pressure (BP)</td>

            <td>     ${vital.bloodpressure}</td>

        </tr>

        <tr>

                <td>Pulse Rate (PR)</td>

            <td>     ${vital.pulserate}</td>

        </tr>

        <tr>

                <td>Respiration Rate (RR)</td>

            <td>     ${vital.respirationrate}</td>

        </tr>

        <tr>

                <td>Temperature (If febrile)</td>

            <td>     ${vital.temperature}</td>

        </tr>

        <tr>

                <td>Weight (&lt; 12yo)</td>

            <td>     ${vital.weight}</td>

        </tr>

        </table>
    </div>
    <div id="tab4" class="tab_content">
    <br/>
      <h2>Soft Tissue Examination</h2>
                        <table>

        <c:set var="tissue" value="${theSoftTissue}"/>

        <tr>

        <td>Head, Neck & TMJ</td>

        <td>     ${tissue.headnecktmj}</td>

                        </tr>
                        <tr>

        <td>Mucosa</td>

        <td>     ${tissue.mucosa}</td>

                        </tr>
                        <tr>

        <td>Pharynx</td>

        <td>     ${tissue.pharynx}</td>
                        </tr>
                        <tr>

        <td>Tongue</td>

        <td>     ${tissue.tongue}</td>
                        </tr>
                        <tr>

        <td>Salivary Gland</td>

        <td>     ${tissue.salivarygland}</td>
                        </tr>
                        <tr>

        <td>Gingiva</td>

        <td>     ${tissue.gingiva}</td>
                        </tr>
                        <tr>

        <td>Lips/Frenum</td>

        <td>     ${tissue.lips}</td>
                        </tr>
                        <tr>

        <td>Palate</td>

        <td>     ${tissue.palate}</td>
                        </tr>
                        <tr>

        <td>Floor of the Mouth</td>

        <td>     ${tissue.mouthfloor}</td>
                        </tr>
                        <tr>

        <td>Lymph Nodes</td>

        <td>     ${tissue.lymphnodes}</td>
                        </tr>
                        <tr>

        <td>Thyroid</td>

        <td>     ${tissue.thyroid}</td>
                        </tr>
                </table>
                <h2>Radiographic Exam</h2>
                        <!--
<c:forEach var="radiographic" items="${theRadiographicExam}">
                        <input type="button" value="${radiographic.radiographicdate}" class="button" onclick="showRadiographic()"/>
                        <span id="spanid"><span id="radiographicspan${radiographic.radiographicversion}" style="display:none;">${radiographic.toothnumber}<br/>

${radiographic.radiographicfindings}</span></span><br/>

        </c:forEach>-->
                        <c:set var="radiographic" value="${radiographicexam}"/>
                        <input type="hidden" name="radiographicversion" value="${radiographicversion}"/>
                        <table>

        <tr>

                <td>Date</td>
```

```
		<td>${radiographic.radiographicdate }</td>

		</tr>

		<tr>


		<td>Toothnumber</td>


		<td>${radiographic.toothnumber}</td>

		</tr>

		<tr>

			<td>Findings</td>


		<td>${radiographic.radiographicfindings}</td>

		</tr>



		</table>
			</div>
			<div id="tab5" class="tab_content">
			<br/>
				<c:set var="checklist" value="${patientchecklist}"/>
		<h2>Do you have or have you had any of the following?</h2>
				<table>

		<!--<c:set var="assessment" value="${thePhysicalAssessment}"/>-->

		<tr>

			<td>YES</td>

			<td>NO</td>

			<td></td>

			<td>YES</td>

			<td>NO</td>

		</tr>

		<tr>


			<td><input type="radio" name="highblood" value="yes" <c:if test="${checklist.highblood == 'yes'}">checked="yes"</c:if> readonly/></td>


			<td><input type="radio" name="highblood" value="no" <c:if test="${checklist.highblood == 'no'}">checked="yes"</c:if> readonly/></td>


			<td>High blood pressure</td>


			<td><input type="radio" name="jointpain" value="yes" <c:if test="${checklist.jointpain == 'yes'}">checked="yes"</c:if> readonly/></td>


			<td><input type="radio" name="jointpain" value="no" <c:if test="${checklist.jointpain == 'no'}">checked="yes"</c:if> readonly/></td>


			<td>Pain in joints</td>

		</tr>

		<tr>


			<td><input type="radio" name="heartattack" value="yes" <c:if test="${checklist.heartattack == 'yes'}">checked="yes"</c:if> readonly/></td>


			<td><input type="radio" name="heartattack" value="no" <c:if test="${checklist.heartattack == 'no'}">checked="yes"</c:if> readonly/></td>


			<td>Heart attack</td>


			<td><input type="radio" name="tremors" value="yes" <c:if test="${checklist.tremors == 'yes'}">checked="yes"</c:if> readonly/></td>


			<td><input type="radio" name="tremors" value="no" <c:if test="${checklist.tremors == 'no'}">checked="yes"</c:if> readonly/></td>


			<td>Tremors</td>

		</tr>

		<tr>


			<td><input type="radio" name="anginapectoris" value="yes" <c:if test="${checklist.anginapectoris == 'yes'}">checked="yes"</c:if> readonly/></td>


			<td><input type="radio" name="anginapectoris" value="no" <c:if test="${checklist.anginapectoris == 'no'}">checked="yes"</c:if> readonly/></td>


			<td>Angina Pectoris, chest pain</td>


			<td><input type="radio" name="bloodtransfusion" value="yes" <c:if test="${checklist.bloodtransfusion == 'yes'}">checked="yes"</c:if> readonly/></td>


			<td><input type="radio" name="bloodtransfusion" value="no" <c:if test="${checklist.bloodtransfusion == 'no'}">checked="yes"</c:if> readonly/></td>


			<td>Blood transfusion</td>

		</tr>

		<tr>


			<td><input type="radio" name="swollenankles" value="yes"  <c:if test="${checklist.swollenankles == 'yes'}">checked="yes"</c:if> readonly/></td>


			<td><input type="radio" name="swollenankles" value="no"  <c:if test="${checklist.swollenankles == 'no'}">checked="yes"</c:if> readonly/></td>


			<td>Swollen ankles</td>


			<td><input type="radio" name="deniedblood" value="yes" <c:if test="${checklist.deniedblood == 'yes'}">checked="yes"</c:if> readonly/></td>


			<td><input type="radio" name="deniedblood" value="no" <c:if test="${checklist.deniedblood == 'no'}">checked="yes"</c:if> readonly/></td>


			<td>Denied permission to give blood</td>

		</tr>

		<tr>


			<td><input type="radio" name="frequentfever" value="yes" <c:if test="${checklist.frequentfever == 'yes'}">checked="yes"</c:if> readonly/></td>


			<td><input type="radio" name="frequentfever" value="no" <c:if test="${checklist.frequentfever ==
```

```
'no'}">checked="yes"</c:if>
readonly/></td>

                    <td>Frequent high
fever</td>

                    <td><input
type="radio" name="pallor" value="yes"
<c:if test="${checklist.pallor ==
'yes'}">checked="yes"</c:if>
readonly/></td>

                    <td><input
type="radio" name="pallor" value="no"
<c:if test="${checklist.pallor ==
'no'}">checked="yes"</c:if>
readonly/></td>

                    <td>Pallor</td>

                </tr>

                <tr>

                    <td><input
type="radio" name="pacemakers"
value="yes" <c:if
test="${checklist.pacemakers ==
'yes'}">checked="yes"</c:if>
readonly/></td>

                    <td><input
type="radio" name="pacemakers"
value="no" <c:if
test="${checklist.pacemakers ==
'no'}">checked="yes"</c:if>
readonly/></td>

                    <td>Pacemakers,
artificial heart valves</td>

                    <td><input
type="radio" name="diabetes" value="yes"
<c:if test="${checklist.diabetes ==
'yes'}">checked="yes"</c:if>
readonly/></td>

                    <td><input
type="radio" name="diabetes" value="no"
<c:if test="${checklist.diabetes ==
'no'}">checked="yes"</c:if>
readonly/></td>

                    <td>Diabetes</td>

                </tr>

                <tr>

                    <td><input
type="radio" name="emphysema"
value="yes" <c:if
test="${checklist.emphysema ==
'yes'}">checked="yes"</c:if>
readonly/></td>

                    <td><input
type="radio" name="emphysema"
value="no" <c:if
test="${checklist.emphysema ==
'no'}">checked="yes"</c:if>
readonly/></td>

                    <td>Emphysema</td>

                    <td><input
type="radio" name="goiter" value="yes"
<c:if test="${checklist.goiter ==
'yes'}">checked="yes"</c:if>
readonly/></td>

                    <td><input
type="radio" name="goiter" value="no"
<c:if test="${checklist.goiter ==
'no'}">checked="yes"</c:if>
readonly/></td>

                    <td>Goiter</td>

                </tr>

                <tr>

                    <td><input
type="radio" name="afternoonfever"
value="yes" <c:if
test="${checklist.afternoonfever ==
'yes'}">checked="yes"</c:if>
readonly/></td>

                    <td><input
type="radio" name="afternoonfever"
value="no" <c:if
test="${checklist.afternoonfever ==
'no'}">checked="yes"</c:if>
readonly/></td>

                    <td>Afternoon
fever</td>

                    <td><input
type="radio" name="bleedingbruising"
value="yes" <c:if
test="${checklist.bleedingbruising ==
'yes'}">checked="yes"</c:if>
readonly/></td>

                    <td><input
type="radio" name="bleedingbruising"
value="no" <c:if
test="${checklist.bleedingbruising ==
'no'}">checked="yes"</c:if>
readonly/></td>

                    <td>Bleeding or
bruising tendency</td>

                </tr>

                <tr>

                    <td><input
type="radio" name="chroniccough"
value="yes" <c:if
test="${checklist.chroniccough ==
'yes'}">checked="yes"</c:if>
readonly/></td>

                    <td><input
type="radio" name="chroniccough"
value="no" <c:if
test="${checklist.chroniccough ==
'no'}">checked="yes"</c:if>
readonly/></td>

                    <td>Chronic
cough</td>

                    <td><input
type="radio" name="weightlossgain"
value="yes" <c:if
test="${checklist.weightlossgain ==
'yes'}">checked="yes"</c:if>
readonly/></td>

                    <td><input
type="radio" name="weightlossgain"
value="no" <c:if
test="${checklist.weightlossgain ==
'no'}">checked="yes"</c:if>
readonly/></td>

                    <td>Sudden weight
loss or gain</td>

                </tr>

                <tr>

                    <td><input
type="radio" name="breathingprob"
value="yes" <c:if
test="${checklist.breathingprob ==
'yes'}">checked="yes"</c:if>
readonly/></td>

                    <td><input
type="radio" name="breathingprob"
value="no" <c:if
test="${checklist.breathingprob ==
'no'}">checked="yes"</c:if>
readonly/></td>

                    <td>Breathing
problems</td>

                    <td><input
type="radio" name="frequentthirst"
value="yes" <c:if
test="${checklist.frequentthirst ==
'yes'}">checked="yes"</c:if>
readonly/></td>

                    <td><input
type="radio" name="frequentthirst"
value="no" <c:if
test="${checklist.frequentthirst ==
'no'}">checked="yes"</c:if>
readonly/></td>

                    <td>Frequent
thirst</td>

                </tr>

                <tr>

                    <td><input
type="radio" name="bloodysputum"
value="yes" <c:if
test="${checklist.bloodysputum ==
'yes'}">checked="yes"</c:if>
readonly/></td>

                    <td><input
type="radio" name="bloodysputum"
value="no" <c:if
test="${checklist.bloodysputum ==
```

```
'no'}">checked="yes"</c:if>
readonly/></td>

                    <td>Bloody
sputum</td>

                    <td><input
type="radio" name="frequenthunger"
value="yes" <c:if
test="${checklist.frequenthunger ==
'yes'}">checked="yes"</c:if>
readonly/></td>

                    <td><input
type="radio" name="frequenthunger"
value="no" <c:if
test="${checklist.frequenthunger ==
'no'}">checked="yes"</c:if>
readonly/></td>

                    <td>Frequent
hunger</td>

                </tr>

                <tr>

                    <td><input
type="radio" name="sinusitis" value="yes"
<c:if test="${checklist.sinusitis ==
'yes'}">checked="yes"</c:if>
readonly/></td>

                    <td><input
type="radio" name="sinusitis" value="no"
<c:if test="${checklist.sinusitis ==
'no'}">checked="yes"</c:if>
readonly/></td>

                    <td>Sinusitis</td>

                    <td><input
type="radio" name="frequenturination"
value="yes" <c:if
test="${checklist.frequenturination ==
'yes'}">checked="yes"</c:if>
readonly/></td>

                    <td><input
type="radio" name="frequenturination"
value="no" <c:if
test="${checklist.frequenturination ==
'no'}">checked="yes"</c:if>
readonly/></td>

                    <td>Frequent
urination</td>

                </tr>

                <tr>

                    <td><input
type="radio" name="frequentheadaches"
value="yes" <c:if
test="${checklist.frequentheadaches ==
'yes'}">checked="yes"</c:if>
readonly/></td>

                    <td><input
type="radio" name="frequentheadaches"
value="no" <c:if
test="${checklist.frequentheadaches ==
'no'}">checked="yes"</c:if>
readonly/></td>

                    <td>Frequent
headaches</td>

                    <td><input
type="radio" name="chemotherapy"
value="yes" <c:if
test="${checklist.chemotherapy ==
'yes'}">checked="yes"</c:if>
readonly/></td>

                    <td><input
type="radio" name="chemotherapy"
value="no" <c:if
test="${checklist.chemotherapy ==
'no'}">checked="yes"</c:if>
readonly/></td>

                    <td>Chemotherapy</td>

                </tr>

                <tr>

                    <td><input
type="radio" name="dizziness"
value="yes" <c:if
test="${checklist.dizziness ==
'yes'}">checked="yes"</c:if>
readonly/></td>

                    <td><input
type="radio" name="dizziness" value="no"
<c:if test="${checklist.dizziness ==
'no'}">checked="yes"</c:if>
readonly/></td>

                    <td>Dizziness</td>

                    <td><input
type="radio" name="urinationpain"
value="yes" <c:if
test="${checklist.urinationpain ==
'yes'}">checked="yes"</c:if>
readonly/></td>

                    <td><input
type="radio" name="urinationpain"
value="no" <c:if
test="${checklist.urinationpain ==
'no'}">checked="yes"</c:if>
readonly/></td>

                    <td>Pain upon
urination</td>

                </tr>

                <tr>

                    <td><input
type="radio" name="faintingspells"
value="yes" <c:if
test="${checklist.faintingspells ==
'yes'}">checked="yes"</c:if>
readonly/></td>

                    <td><input
type="radio" name="faintingspells"
value="no" <c:if
test="${checklist.faintingspells ==
'no'}">checked="yes"</c:if>
readonly/></td>

                    <td>Fainting spells
or loss of consciousness</td>

                    <td><input
type="radio" name="urinebloodpus"
value="yes" <c:if
test="${checklist.urinebloodpus ==
'yes'}">checked="yes"</c:if>
readonly/></td>

                    <td><input
type="radio" name="urinebloodpus"
value="no" <c:if
test="${checklist.urinebloodpus ==
'no'}">checked="yes"</c:if>
readonly/></td>

                    <td>Blood/pus in
urine</td>

                </tr>

                <tr>

                    <td><input
type="radio" name="visualimpairment"
value="yes" <c:if
test="${checklist.visualimpairment ==
'yes'}">checked="yes"</c:if>
readonly/></td>

                    <td><input
type="radio" name="visualimpairment"
value="no" <c:if
test="${checklist.visualimpairment ==
'yes'}">checked="no"</c:if>
readonly/></td>

                    <td>Visual
impairment</td>

                    <td><input
type="radio" name="hepatitis" value="yes"
<c:if test="${checklist.hepatitis ==
'yes'}">checked="yes"</c:if>
readonly/></td>

                    <td><input
type="radio" name="hepatitis" value="no"
<c:if test="${checklist.hepatitis ==
'no'}">checked="yes"</c:if>
readonly/></td>

                    <td>Hepatitis (A,
B, C, D)</td>

                </tr>

                <tr>

                    <td><input
type="radio" name="hearingimpairment"
value="yes" <c:if
test="${checklist.hearingimpairment ==
'yes'}">checked="yes"</c:if>
readonly/></td>

                    <td><input
type="radio" name="hearingimpairment"
value="no" <c:if
test="${checklist.hearingimpairment ==
```

```
'no'}">checked="yes"</c:if>
readonly/></td>

                <td>Hearing
impairment</td>

                <td><input
type="radio" name="hivpositive"
value="yes" <c:if
test="${checklist.hivpositive ==
'yes'}">checked="yes"</c:if>
readonly/></td>

                <td><input
type="radio" name="hivpositive"
value="no" <c:if
test="${checklist.hivpositive ==
'no'}">checked="yes"</c:if>
readonly/></td>

                <td>HIV
positive?</td>

            </tr>

            <tr>

                <td><input
type="radio" name="arthritis" value="yes"
<c:if test="${checklist.arthritis ==
'yes'}">checked="yes"</c:if>
readonly/></td>

                <td><input
type="radio" name="arthritis" value="no"
<c:if test="${checklist.arthritis ==
'no'}">checked="yes"</c:if>
readonly/></td>

                <td>Arthritis</td>

                <td><input
type="radio" name="pelvicdiscomfort"
value="yes" <c:if
test="${checklist.pelvicdiscomfort ==
'yes'}">checked="yes"</c:if>
readonly/></td>

                <td><input
type="radio" name="pelvicdiscomfort"
value="no" <c:if
test="${checklist.pelvicdiscomfort ==
'no'}">checked="yes"</c:if>
readonly/></td>

                <td>Pelvic/lower
abdominal discomfort</td>

            </tr>

            <tr>

                <td><input
type="radio" name="nervousness"
value="yes" <c:if
test="${checklist.nervousness ==
'yes'}">checked="yes"</c:if>
readonly/></td>

                <td><input
type="radio" name="nervousness"
value="no" <c:if
test="${checklist.nervousness ==
'no'}">checked="yes"</c:if>
readonly/></td>


                <td>Nervousness</td>

                <td><input
type="radio" name="depression"
value="yes" <c:if
test="${checklist.depression ==
'yes'}">checked="yes"</c:if>
readonly/></td>

                <td><input
type="radio" name="depression"
value="no" <c:if
test="${checklist.depression ==
'no'}">checked="yes"</c:if>
readonly/></td>

                <td>Depression</td>

            </tr>

            <tr>

                <td><input
type="radio" name="anxiety" value="yes"
<c:if test="${checklist.anxiety ==
'yes'}">checked="yes"</c:if>
readonly/></td>

                <td><input
type="radio" name="anxiety" value="no"
<c:if test="${checklist.anxiety ==
'no'}">checked="yes"</c:if>
readonly/></td>

                <td>Anxiety</td>

                <td><input
type="radio" name="checkothers"
value="yes" onclick="showCheckothers()"
<c:if test="${checklist.checkothers ==
'yes'}">checked="yes"</c:if>
readonly/></td>

                <td><input
type="radio" name="checkothers"
value="no" onclick="hideCheckothers()"
<c:if test="${checklist.checkothers ==
'no'}">checked="yes"</c:if>
readonly/></td>

                <td>Others

                <span
id="othersspan"
style="display:none">${checklist.enumerat
echeckothers}</span></td>

            </tr>

            </table><br/>

            <h2>Family History
(Grandparents, Parents, Sisters, Brothers,
Children)</h2>
                                <table>

            <tr>

                <td>YES</td>

                <td>NO</td>

            </tr>

            <tr>

                <td><input
type="radio" name="familydiabetes"
value="yes" <c:if
test="${checklist.familydiabetes ==
'yes'}">checked="yes"</c:if>></td>

                <td><input
type="radio" name="familydiabetes"
value="no" <c:if
test="${checklist.familydiabetes ==
'no'}">checked="yes"</c:if>></td>

                <td>Diabetes</td>

            </tr>

            <tr>

                <td><input
type="radio" name="familybleeding"
value="yes" <c:if
test="${checklist.familybleeding ==
'yes'}">checked="yes"</c:if>></td>

                <td><input
type="radio" name="familybleeding"
value="no" <c:if
test="${checklist.familybleeding ==
'no'}">checked="yes"</c:if>></td>

                <td>Bleeding
Disorders</td>

            </tr>

            <tr>

                <td><input
type="radio" name="familyheartdiseases"
value="yes" <c:if
test="${checklist.familyheartdiseases ==
'yes'}">checked="yes"</c:if>></td>

                <td><input
type="radio" name="familyheartdiseases"
value="no" <c:if
test="${checklist.familyheartdiseases ==
'no'}">checked="yes"</c:if>></td>

                <td>Heart
Diseases</td>

            </tr>

            <tr>

                <td><input
type="radio" name="familycancer"
value="yes" <c:if
test="${checklist.familycancer ==
'yes'}">checked="yes"</c:if>></td>

                <td><input
type="radio" name="familycancer"
value="no" <c:if
test="${checklist.familycancer ==
'no'}">checked="yes"</c:if>></td>
```

```
                    <td>Cancer</td>

                </tr>

                <tr>

                    <td><input
type="radio" name="familyothers"
value="yes"
onclick="showFamilydisease()" <c:if
test="${checklist.familyothers ==
'yes'}">checked="yes"</c:if>></td>

                    <td><input
type="radio" name="familyothers"
value="no" onclick="hideFamilydisease()"
<c:if test="${checklist.familyothers ==
'no'}">checked="yes"</c:if>></td>

                    <td>Others

                    <span
id="familyothersspan"
style="display:none">${checklist.enumerat
eotherfamily}</span></td>

                </tr>

                </table><br/>

                <h2>Allergies</h2>
                                    <table>

                <tr>

                    <td>YES</td>

                    <td>NO</td>

                </tr>

                <tr>

                    <td><input
type="radio" name="drugallergy"
value="yes" onclick="showDrugs()" <c:if
test="${checklist.drugallergy ==
'yes'}">checked="yes"</c:if>
readonly/></td>

                    <td><input
type="radio" name="drugallergy"
value="no" onclick="hideDrugs()" <c:if
test="${checklist.drugallergy ==
'no'}">checked="yes"</c:if>
readonly/></td>

                    <td>Drugs

                    <span
id="drugallergyspan"
style="display:none">${checklist.enumerat
edrugs}</span></td>

                </tr>

                <tr>

                    <td><input
type="radio" name="foodallergy"
value="yes" onclick="showFood()" <c:if
test="${checklist.foodallergy ==
'yes'}">checked="yes"</c:if>
readonly/></td>

                    <td><input
type="radio" name="foodallergy"
value="no" onclick="hideFood()" <c:if
test="${checklist.foodallergy ==
'no'}">checked="yes"</c:if>
readonly/></td>

                    <td>Food

                    <span
id="foodallergyspan"
style="display:none">${checklist.enumerat
efood}</span></td>

                </tr>

                <tr>

                    <td><input
type="radio" name="rubberallergy"
value="yes" onclick="showRubber()" <c:if
test="${checklist.rubberallergy ==
'yes'}">checked="yes"</c:if>
readonly/></td>

                    <td><input
type="radio" name="rubberallergy"
value="no" onclick="hideRubber()" <c:if
test="${checklist.rubberallergy ==
'no'}">checked="yes"</c:if>
readonly/></td>

                    <td>Rubber

                    <span
id="rubberallergyspan"
style="display:none">${checklist.enumerat
erubber}</span></td>

                </tr>

                <tr>

                    <td><input
type="radio" name="otherallergy"
value="yes" onclick="showOtherallergy()"
<c:if test="${checklist.otherallergy ==
'yes'}">checked="yes"</c:if>
readonly/></td>

                    <td><input
type="radio" name="otherallergy"
value="no" onclick="hideOtherallergy()"
<c:if test="${checklist.otherallergy ==
'no'}">checked="yes"</c:if>
readonly/></td>

                    <td>Others

                    <span
id="otherallergyspan"
style="display:none">${checklist.enumerat
eothers}</span></td>

                </tr>

                </table><br/>
                                    <c:if
test="${sex == 'F' }">

                <h2>Females</h2>
                                    <table>

                <tr>

                    <td>YES</td>

                    <td>NO</td>

                </tr>

                <tr>

                    <td><input
type="radio" name="pregnant" value="yes"
onclick="showMonthspregnant()" <c:if
test="${checklist.pregnant ==
'yes'}">checked="yes"</c:if>
readonly/></td>

                    <td><input
type="radio" name="pregnant" value="no"
onclick="hideMonthspregnant()" <c:if
test="${checklist.pregnant ==
'no'}">checked="yes"</c:if>
readonly/></td>

                    <td>Are you
pregnant now?

                    <span
id="monthspregnantspan"
style="display:none">${checklist.monthspr
egnant} months</span></td>

                </tr>

                <tr>

                    <td><input
type="radio" name="breastfeeding"
value="yes" <c:if
test="${checklist.breastfeeding ==
'yes'}">checked="yes"</c:if>
readonly/></td>

                    <td><input
type="radio" name="breastfeeding"
value="no" <c:if
test="${checklist.breastfeeding ==
'no'}">checked="yes"</c:if>
readonly/></td>

                    <td>Are you
breastfeeding now?</td>

                </tr>

                <tr>

                    <td><input
type="radio" name="hormonereplacement"
value="yes" <c:if
test="${checklist.hormonereplacement ==
'yes'}">checked="yes"</c:if>
readonly/></td>

                    <td><input
type="radio" name="hormonereplacement"
value="no" <c:if
test="${checklist.hormonereplacement ==
'no'}">checked="yes"</c:if>
readonly/></td>
```

```
                    <td>Under
hormone replacement therapy?</td>

                </tr>

                <tr>

                    <td><input
type="radio" name="menstruation"
value="yes" <c:if
test="${checklist.menstruation ==
'yes'}">checked="yes"</c:if>
readonly/></td>

                    <td><input
type="radio" name="menstruation"
value="no" <c:if
test="${checklist.menstruation ==
'no'}">checked="yes"</c:if>
readonly/></td>


                    <td>Menstruation?</td>

                </tr>

                <tr>

                    <td><input
type="radio" name="contraceptive"
value="yes"
onclick="showContraceptives()" <c:if
test="${checklist.contraceptive ==
'yes'}">checked="yes"</c:if>
readonly/></td>

                    <td><input
type="radio" name="contraceptive"
value="no" onclick="hideContraceptives()"
<c:if test="${checklist.contraceptive ==
'no'}">checked="yes"</c:if>
readonly/></td>

                    <td>Taking any
form of contraceptive?

                    <span
id="contraceptivespan"
style="display:none">${checklist.enumerat
econtraceptive}</span></td>

                </tr>

                </table>
                                    </c:if>
                </div>
                <div id="tab6"
class="tab_content">
                <br/>
        <!--    <c:set var="consultations"
value="${consultationslist}"/>-->
            <h2>Consultations/Referral:
Include Medical Referrals</h2>
            <input type="hidden"
name="consultationversion"
value="${consultationversion}"/>
                <table>
                <b><tr>
                    <td>Patient
Id</a></td>
                    <td>Date</td>
                    <td>Reason</td>
                    <td>From</td>
                    <td>To</td>
                    <td>Findings</td>
                    <td>Clinician</td>
                    <td>Clinician
Nature</td>

                </tr></b>
                <c:forEach var="consultations"
items="${consultationslist}">
                <tr>
                    <td><a
href="viewConsultation.form?patientId=<
%out.print(patientID);
%>&consultationversion=${consultations.c
onsultationversion}"
target="_blank">${consultations.consultati
onversion}</a></td>

                    <td>${consultations.consultati
ondate}</td>

                    <td>${consultations.consultati
onreason}</td>

                    <td>${consultations.consultati
onfrom}</td>

                    <td>${consultations.consultati
onto}</td>

                    <td>${consultations.consultati
onfindings}</td>

                    <td>${consultations.consultati
onclinician}</td>

                    <td>${consultations.consultati
oncliniciannature}</td>

                </tr>
                </c:forEach>
                </table>
                                    </br>
                </div>
                <div id="tab7"
class="tab_content">
                <c:set var="services"
value="${theServicesNeeded}"/>
                    <br/>
            <h2>Problem List Worksheet</h2>
                                    <table>

                <tr>


                <td><u>Periodontics</u><br/>

                    <input
type="checkbox" name="periodontics"
value="yes" <c:if
test="${fn:contains(services.periodontics,'y
es')}">checked="yes"</c:if>>

                    Management of
Periodontal Disease</td>

                </tr>

                <tr>


                <td><br/><br/><u>Operative
Dentistry </u></td>

                </tr>

                <tr>

                    <td></td>

                    <td>Tooth
Number</td>

                </tr>

                <tr>

                    <td>Class I</td>

                <td>${services.class1}</td>

                </tr>

                <tr>

                    <td>Class II</td>

                <td>${services.class2}</td>

                </tr>

                <tr>

                    <td>Class III</td>

                <td>${services.class3}</td>

                </tr>

                <tr>

                    <td>Class IV</td>

                <td>${services.class4}</td>

                </tr>

                <tr>

                    <td>Class V</td>

                <td>${services.class5}</td>

                </tr>

                <tr>

                    <td>Onlay</td>

                <td>${services.onlay}</td>

                </tr>

                <tr>


                <td><br/><br/><u> Surgery
</u></td>

                </tr>
```

```
<tr>
<td></td>
<td>Tooth Number</td>
</tr>
<tr>
<td>Extraction</td>
<td>${services.extraction}</td>
</tr>
<tr>
<td>Odontectomy</td>
<td>${services.odontectomy}</td>
</tr>
<tr>
<td>Special Case</td>
<td>${services.specialcase}</td>
</tr>
<tr>
<td><input type="checkbox" name="surgery" value="yes" <c:if test="${fn:contains(services.surgery,'pedodontics')}">checked="yes"</c:if>>
Pedodontics </td>
</tr>
<tr>
<td><input type="checkbox" name="surgery" value="yes" <c:if test="${fn:contains(services.surgery,'orthodontics')}">checked="yes"</c:if>>
Orthodontics</td>
</tr>
<tr>
<td><br/><br/><u>Emergency Treatment</u></td>
</tr>
<tr>
<td></td>
<td>Tooth Number</td>
</tr>
<tr>
<td>Pulp Sedation</td>
<td>${services.pulpsedation}</td>
</tr>
<tr>
<td>Recementation of Crowns</td>
<td>${services.crownrecementation}</td>
</tr>
<tr>
<td>Temporary Fillings</td>
<td>${services.fillingservice}</td>
</tr>
<tr>
<td><input type="checkbox" name="emergencytreatment" value="acute infections" <c:if test="${fn:contains(services.emergencytreatment,'acute infections')}">checked="yes"</c:if>>
Management of acute infections</td>
</tr>
<tr>
<td><input type="checkbox" name="emergencytreatment" value="traumatic injuries" <c:if test="${fn:contains(services.emergencytreatment,'traumatic injuries')}">checked="yes"</c:if>>
Management of Temporary Injuries</td>
</tr>
<tr>
<td><br/><br/><u>Fixed Partial Denture</u></td>
</tr>
<tr>
<td></td>
<td>Tooth Number</td>
</tr>
<tr>
<td>Laminated</td>
<td>${services.laminated}</td>
</tr>
<tr>
<td>Single Crown</td>
<td>${services.singlecrown}</td>
</tr>
<tr>
<td>Bridge</td>
<td>${services.bridgeservice}</td>
</tr>
<tr>
<td><br/><br/><u>Endodontics</u></td>
</tr>
<tr>
<td></td>
<td>Tooth Number</td>
</tr>
<tr>
<td>Anterior</td>
```

```
<td>${services.anterior}</td>

</tr>

<tr>

<td>Posterior</td>

<td>${services.posterior}</td>

</tr>

<tr>

<td>Others</td>

<td>${services.otherendodontics}</td>

</tr>

<tr>

<td><br/><br/><u>Prosthodontics</u><br/>

<input type="checkbox" name="prosthodontics" value="complete denture" <c:if test="${fn:contains(services.prosthodontics,'complete denture')}">checked="yes"</c:if>>

Complete Denture</td>

</tr>

<tr>

<td><input type="checkbox" name="prosthodontics" value="single denture" <c:if test="${fn:contains(services.prosthodontics,'single denture')}">checked="yes"</c:if>>

Single Denture</td>

</tr>

<tr>

<td><input type="checkbox" name="prosthodontics" value="removable partial" <c:if test="${fn:contains(services.prosthodontics,'removable partial')}">checked="yes"</c:if>>

Removable Partial Denture</td>

</tr>

<tr>

<td><input type="checkbox" name="prosthodontics" value="others" <c:if test="${fn:contains(services.prosthodontics,'others')}">checked="yes"</c:if>>

Other Denture Services</td>

</tr>

</table>
</div>
</div>
<a href="dentalForms.form?patientId=<% out.print(patientID); %>">Update Patient Record</a> | <a href="viewChart.form?patientId=<% out.print(patientID); %>">View Dental Status Chart</a>
</body>
```

DentalChartController.java

```
/**
 * The contents of this file are subject to the OpenMRS Public License
 * Version 1.0 (the "License"); you may not use this file except in
 * compliance with the License. You may obtain a copy of the License at
 * http://license.openmrs.org
 *
 * Software distributed under the License is distributed on an "AS IS"
 * basis, WITHOUT WARRANTY OF ANY KIND, either express or implied. See the
 * License for the specific language governing rights and limitations
 * under the License.
 *
 * Copyright (C) OpenMRS, LLC.  All Rights Reserved.
 */
package org.openmrs.module.dental.web.controller;

import java.text.SimpleDateFormat;
import java.util.Collection;
import java.util.Date;
import java.util.Enumeration;
import java.util.List;

import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpSession;

import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;
import org.openmrs.Patient;
import org.openmrs.User;
import org.openmrs.api.context.Context;
import org.openmrs.module.dental.AmalgamStatus;
import org.openmrs.module.dental.CariesStatus;
import org.openmrs.module.dental.CompositeStatus;
import org.openmrs.module.dental.ConsultationsReferrals;
import org.openmrs.module.dental.DentalChart;
import org.openmrs.module.dental.DentalHistory;
import org.openmrs.module.dental.DentalService;
import org.openmrs.module.dental.FillingStatus;
import org.openmrs.module.dental.GlassStatus;
import org.openmrs.module.dental.MedicalHistory;
import org.openmrs.module.dental.PatientChecklist;
import org.openmrs.module.dental.PatientInfo;
import org.openmrs.module.dental.PhysicalAssessment;
import org.openmrs.module.dental.RadiographicExam;
import org.openmrs.module.dental.RecurrentStatus;
import org.openmrs.module.dental.RestorationStatus;
import org.openmrs.module.dental.ServicesNeeded;
import org.openmrs.module.dental.SocialHistory;
import org.openmrs.module.dental.SoftTissue;
import org.openmrs.module.dental.VitalSigns;
import org.springframework.stereotype.Controller;
import org.springframework.validation.BindingResult;
import org.springframework.web.bind.annotation.ModelAttribute;
import org.springframework.web.bind.annotation.RequestMapping;
import org.springframework.web.bind.annotation.RequestMethod;
import org.springframework.web.bind.annotation.RequestParam;
import org.springframework.web.servlet.support.RequestContext;

/**
 * This class configured as controller using annotation and mapped with the URL of 'module/basicmodule/basicmoduleLink.form'.
 */
@Controller
@RequestMapping(value = "/module/dental/dentalChartLink.form")
public class DentalChartController{
```

```
	/** Logger for this class and
subclasses */
	protected final Log log =
LogFactory.getLog(getClass());

	/** Success form view name */
	private final String
SUCCESS_FORM_VIEW =
"/module/dental/dentalChart";

	/**
	 * Initially called after the
formBackingObject method to get the
landing form name
	 * @return String form view
name
	 */
	@RequestMapping(method =
RequestMethod.GET)
	public String
showForm(HttpServletRequest request){
		return
SUCCESS_FORM_VIEW;
	}


	/**
	 * All the parameters are
optional based on the necessity
	 *
	 * @param httpSession
	 * @param anyRequestObject
	 * @param errors
	 * @return
	 */
	@RequestMapping(method =
RequestMethod.POST)
	public String
onSubmit(HttpSession httpSession,

@ModelAttribute("anyRequestObject")
Object anyRequestObject, BindingResult
errors) {

		if
(errors.hasErrors()) {
			// return
error view
		}

		return
SUCCESS_FORM_VIEW;
	}

	@RequestMapping(value =
"/module/dental/dentalChart", method =
RequestMethod.POST)
	public String addData(

@RequestParam("patientid") Integer
patientid,

	@RequestParam(value="occup
ation", required = false) String occupation,

	@RequestParam(value="educat
ion", required = false) String education,

	@RequestParam(value="guardi
an", required = false) String guardian,

	@RequestParam(value="chiefc
omplaint", required = false) String
chiefcomplaint,

	@RequestParam(value="illness
histo", required = false) String illnesshisto,

	@RequestParam(value="patien
tphone", required = false) Long
patientphone,

	@RequestParam(value="guardi
anphone", required = false) Long
guardianphone,

	@RequestParam(value="servic
ecode", required = false) String
servicecode,


	@RequestParam(value="dolv",
required = false) String dolv,

	@RequestParam(value="lvproc
edure", required = false) String
lvprocedure,

	@RequestParam(value="dentfr
equency", required = false) String
dentfrequency,

	@RequestParam(value="denta
nesthesia", required = false) String
dentanesthesia,

	@RequestParam(value="dentc
omplications", required = false) String
dentcomplications,

	@RequestParam(value="gait",
required = false) String gait,

	@RequestParam(value="appea
rance", required = false) String appearance,

	@RequestParam(value="defect
s", required = false) String defects,

	@RequestParam(value="blood
pressure", required = false) String
bloodpressure,

	@RequestParam(value="pulser
ate", required = false) String pulserate,

	@RequestParam(value="respir
ationrate", required = false) String
respirationrate,

	@RequestParam(value="tempe
rature", required = false) String
temperature,

	@RequestParam(value="weigh
t", required = false) String weight,


	@RequestParam(value="physic
ianname", required = false) String
physicianname,

	@RequestParam(value="physic
ianphone", required = false) Long
physicianphone,

	@RequestParam(value="hospit
aldate", required = false) String
hospitaldate,

	@RequestParam(value="hospit
alreason", required = false) String
hospitalreason,

	@RequestParam(value="allergi
es", required = false) String allergies,

	@RequestParam(value="illness
es", required = false) String illnesses,

	@RequestParam(value="medic
ations", required = false) String
medications,

	@RequestParam(value="childh
ood", required = false) String childhood,


	@RequestParam(value="cigaru
se", required = false) String cigaruse,

	@RequestParam(value="cigark
ind", required = false) String cigarkind,

	@RequestParam(value="cigaro
ften", required = false) String cigaroften,

	@RequestParam(value="cigary
ears", required = false) Integer cigaryears,

	@RequestParam(value="cigarl
ast", required = false) String cigarlast,


	@RequestParam(value="alcoh
oluse", required = false) String alcoholuse,

	@RequestParam(value="alcoh
olkind", required = false) String
alcoholkind,

	@RequestParam(value="alcoh
oloften", required = false) String
alcoholoften,

	@RequestParam(value="alcoh
olyears", required = false) Integer
alcoholyears,

	@RequestParam(value="alcoh
ollast", required = false) String alcohollast,


	@RequestParam(value="drugu
se", required = false) String druguse,

	@RequestParam(value="drugki
nd", required = false) String drugkind,

	@RequestParam(value="drugo
ften", required = false) String drugoften,

	@RequestParam(value="drugy
ears", required = false) Integer drugyears,

	@RequestParam(value="drugla
st", required = false) String druglast,


	@RequestParam(value="updat
edby", required = false) String updatedby,
```

```
@RequestParam(value="dateupdated", required = false) String dateupdated,

@RequestParam(value="timeupdated", required = false) String timeupdated,


@RequestParam(value="headnecktmj", required = false) String headnecktmj,

@RequestParam(value="mucosa", required = false) String mucosa,

@RequestParam(value="pharynx", required = false) String pharynx,

@RequestParam(value="tongue", required = false) String tongue,

@RequestParam(value="salivarygland", required = false) String salivarygland,

@RequestParam(value="gingiva", required = false) String gingiva,

@RequestParam(value="lips", required = false) String lips,

@RequestParam(value="palate", required = false) String palate,

@RequestParam(value="mouthfloor", required = false) String mouthfloor,

@RequestParam(value="lymphnodes", required = false) String lymphnodes,

@RequestParam(value="thyroid", required = false) String thyroid,


@RequestParam(value="radiographicdate", required=false) String radiographicdate,

@RequestParam(value="toothnumber", required=false) String toothnumber,

@RequestParam(value="radiographicfindings", required=false) String radiographicfindings,

@RequestParam(value="radiographicversion", required=false) Integer radiographicversion,

@RequestParam(value="version", required = false) Integer version,


@RequestParam(value="highblood", required = false) String highblood,

@RequestParam(value="heartattack", required = false) String heartattack,

@RequestParam(value="anginapectoris", required = false) String anginapectoris,

@RequestParam(value="swollenankles", required = false) String swollenankles,

@RequestParam(value="frequentfever", required = false) String frequentfever,

@RequestParam(value="pacemakers", required = false) String pacemakers,

@RequestParam(value="emphysema", required = false) String emphysema,

@RequestParam(value="asthma", required = false) String asthma,

@RequestParam(value="afternoofever", required = false) String afternoonfever,

@RequestParam(value="chroniccough", required = false) String chroniccough,

@RequestParam(value="breathingprob", required = false) String breathingprob,


@RequestParam(value="bloodysputum", required = false) String bloodysputum,

@RequestParam(value="sinusitis", required = false) String sinusitis,

@RequestParam(value="frequentheadaches", required = false) String frequentheadaches,

@RequestParam(value="dizziness", required = false) String dizziness,

@RequestParam(value="faintingspells", required = false) String faintingspells,

@RequestParam(value="visualimpairment", required = false) String visualimpairment,

@RequestParam(value="hearingimpairment", required = false) String hearingimpairment,

@RequestParam(value="arthritis", required = false) String arthritis,

@RequestParam(value="jointpain", required = false) String jointpain,

@RequestParam(value="tremors", required = false) String tremors,

@RequestParam(value="bloodtransfusion", required = false) String bloodtransfusion,

@RequestParam(value="deniedblood", required = false) String deniedblood,

@RequestParam(value="pallor", required = false) String pallor,

@RequestParam(value="diabetes", required = false) String diabetes,

@RequestParam(value="goiter", required = false) String goiter,

@RequestParam(value="bleedingbruising", required = false) String bleedingbruising,

@RequestParam(value="weightlossgain", required = false) String weightlossgain,

@RequestParam(value="frequentthirst", required = false) String frequentthirst,

@RequestParam(value="frequenthunger", required = false) String frequenthunger,

@RequestParam(value="frequenturination", required = false) String frequenturination,

@RequestParam(value="chemotherapy", required = false) String chemotherapy,

@RequestParam(value="urinationpain", required = false) String urinationpain,

@RequestParam(value="urinebloodpus", required = false) String urinebloodpus,


@RequestParam(value="hepatitis", required = false) String hepatitis,

@RequestParam(value="hivpositive", required = false) String hivpositive,

@RequestParam(value="pelvicdiscomfort", required = false) String pelvicdiscomfort,

@RequestParam(value="nervousness", required = false) String nervousness,

@RequestParam(value="depression", required = false) String depression,

@RequestParam(value="anxiety", required = false) String anxiety,

@RequestParam(value="checkothers", required = false) String checkothers,

@RequestParam(value="enumeratecheckothers", required = false) String enumeratecheckothers,
```

```
@RequestParam(value="family diabetes", required = false) String familydiabetes,

@RequestParam(value="family heartdiseases", required = false) String familyheartdiseases,

@RequestParam(value="family bleeding", required = false) String familybleeding,


@RequestParam(value="family cancer", required = false) String familycancer,

@RequestParam(value="family others", required = false) String familyothers,

@RequestParam(value="enum erateotherfamily", required = false) String enumerateotherfamily,

@RequestParam(value="drugal lergy", required = false) String drugallergy,

@RequestParam(value="enum eratedrugs", required = false) String enumeratedrugs,

@RequestParam(value="foodal lergy", required = false) String foodallergy,

@RequestParam(value="enum eratefood", required = false) String enumeratefood,

@RequestParam(value="rubber allergy", required = false) String rubberallergy,

@RequestParam(value="enum eraterubber", required = false) String enumeraterubber,

@RequestParam(value="othera llergy", required = false) String otherallergy,

@RequestParam(value="enum erateothers", required = false) String enumerateothers,


@RequestParam(value="pregn ant", required = false) String pregnant,

@RequestParam(value="month spregnant", required = false) Integer monthspregnant,

@RequestParam(value="breast feeding", required = false) String breastfeeding,

@RequestParam(value="hormo nereplacement", required = false) String hormonereplacement,

@RequestParam(value="menst ruation", required = false) String menstruation,

@RequestParam(value="contra ceptive", required = false) String contraceptive,

@RequestParam(value="enum eratecontraceptive", required = false) String enumeratecontraceptive,


@RequestParam(value="consul tationdate", required = false) String consultationdate,

@RequestParam(value="consul tationreason", required = false) String consultationreason,

@RequestParam(value="consul tationfrom", required = false) String consultationfrom,

@RequestParam(value="consul tationto", required = false) String consultationto,

@RequestParam(value="consul tationfindings", required = false) String consultationfindings,

@RequestParam(value="consul tationclinician", required = false) String consultationclinician,

@RequestParam(value="consul ationcliniciannature", required = false) String consultationcliniciannature,


@RequestParam(value="consul tationversion", required = false) Integer consultationversion,


@RequestParam(value = "returnUrl", required = false) String returnUrl) {

PatientInfo info = new PatientInfo();

info.setPatientid(patientid);

info.setOccupation(occupation);

info.setEducation(education);

info.setGuardian(guardian);

info.setChiefcomplaint(chiefcomplaint);

info.setIllnesshisto(illnesshisto);

info.setPatientphone(patientphone);

info.setGuardianphone(guardianphone);

info.setServicecode(servicecode);

info.setUpdatedby(updatedby);

info.setDateupdated(dateupdated);

info.setTimeupdated(timeupdated);

info.setVersion(version);

Context.getService(DentalService.class).saveInfo(info);

DentalHistory dentalhisto = new DentalHistory();

dentalhisto.setPatientid(patientid);

dentalhisto.setDolv(dolv);

dentalhisto.setLvprocedure(lvprocedure);

dentalhisto.setDentfrequency(dentfrequency);

dentalhisto.setDentanesthesia(dentanesthesia);

dentalhisto.setDentcomplications(dentcomplications);

dentalhisto.setUpdatedby(updatedby);

dentalhisto.setDateupdated(dateupdated);

dentalhisto.setTimeupdated(timeupdated);

dentalhisto.setVersion(version);


Context.getService(DentalService.class).saveDentalhisto(dentalhisto);


PhysicalAssessment assessment = new PhysicalAssessment();

assessment.setPatientid(patientid);

assessment.setGait(gait);

assessment.setAppearance(appearance);

assessment.setDefects(defects);

assessment.setUpdatedby(updatedby);

assessment.setDateupdated(dateupdated);
```

```
assessment.setTimeupdated(timeupdated);

assessment.setVersion(version);

Context.getService(DentalService.class).saveAssessment(assessment);

VitalSigns vital = new VitalSigns();

vital.setPatientid(patientid);

vital.setBloodpressure(bloodpressure);

vital.setPulserate(pulserate);

vital.setRespirationrate(respirationrate);

vital.setTemperature(temperature);

vital.setWeight(weight);

vital.setUpdatedby(updatedby);

vital.setDateupdated(dateupdated);

vital.setTimeupdated(timeupdated);

vital.setVersion(version);

Context.getService(DentalService.class).saveVital(vital);

MedicalHistory medhisto = new MedicalHistory();

medhisto.setPatientid(patientid);

medhisto.setPhysicianname(physicianname);

medhisto.setPhysicianphone(physicianphone);

medhisto.setHospitaldate(hospitaldate);

medhisto.setHospitalreason(hospitalreason);

medhisto.setAllergies(allergies);

medhisto.setIllnesses(illnesses);

medhisto.setMedications(medications);

medhisto.setChildhood(childhood);

medhisto.setUpdatedby(updatedby);

medhisto.setDateupdated(dateupdated);

medhisto.setTimeupdated(timeupdated);

medhisto.setVersion(version);

Context.getService(DentalService.class).saveMedhisto(medhisto);

SocialHistory socialhisto = new SocialHistory();

socialhisto.setPatientid(patientid);

socialhisto.setCigaruse(cigaruse);

socialhisto.setCigarkind(cigarkind);

socialhisto.setCigaroften(cigaroften);

socialhisto.setCigaryears(cigaryears);

socialhisto.setCigarlast(cigarlast);

socialhisto.setAlcoholuse(alcoholuse);

socialhisto.setAlcoholkind(alcoholkind);

socialhisto.setAlcoholoften(alcoholoften);

socialhisto.setAlcoholyears(alcoholyears);

socialhisto.setAlcohollast(alcohollast);

socialhisto.setDruguse(druguse);

socialhisto.setDrugkind(drugkind);

socialhisto.setDrugoften(drugoften);

socialhisto.setDrugyears(drugyears);

socialhisto.setDruglast(druglast);

socialhisto.setUpdatedby(updatedby);

socialhisto.setDateupdated(dateupdated);

socialhisto.setTimeupdated(timeupdated);

socialhisto.setVersion(version);

Context.getService(DentalService.class).saveSocialhisto(socialhisto);

SoftTissue tissue = new SoftTissue();

tissue.setPatientid(patientid);

tissue.setHeadnecktmj(headnecktmj);

tissue.setMucosa(mucosa);

tissue.setPharynx(pharynx);

tissue.setTongue(tongue);

tissue.setSalivarygland(salivarygland);

tissue.setGingiva(gingiva);
tissue.setLips(lips);

tissue.setPalate(palate);

tissue.setMouthfloor(mouthfloor);

tissue.setLymphnodes(lymphnodes);

tissue.setThyroid(thyroid);

tissue.setUpdatedby(updatedby);

tissue.setDateupdated(dateupdated);

tissue.setTimeupdated(timeupdated);

tissue.setVersion(version);

Context.getService(DentalService.class).saveTissue(tissue);

RadiographicExam radiographic = new RadiographicExam();

radiographic.setPatientid(patientid);

radiographic.setRadiographicdate(radiographicdate);

radiographic.setToothnumber(toothnumber);

radiographic.setRadiographicfindings(radiographicfindings);
```

```
radiographic.setUpdatedby(updatedby);

radiographic.setDateupdated(dateupdated);

radiographic.setTimeupdated(timeupdated);

radiographic.setRadiographicversion(radiographicversion);


Context.getService(DentalService.class).saveRadiographic(radiographic);

PatientChecklist checklist = new PatientChecklist();

checklist.setPatientid(patientid);

checklist.setHighblood(highblood);

checklist.setHeartattack(heartattack);

checklist.setAnginapectoris(anginapectoris);

checklist.setSwollenankles(swollenankles);

checklist.setFrequentfever(frequentfever);

checklist.setPacemakers(pacemakers);

checklist.setEmphysema(emphysema);

checklist.setAsthma(asthma);

checklist.setAfternoonfever(afternoonfever);

checklist.setChroniccough(chroniccough);

checklist.setBreathingprob(breathingprob);

checklist.setBloodysputum(bloodysputum);

checklist.setSinusitis(sinusitis);

checklist.setFrequentheadaches(frequentheadaches);

checklist.setDizziness(dizziness);

checklist.setFaintingspells(faintingspells);

checklist.setVisualimpairment(visualimpairment);

checklist.setHearingimpairment(hearingimpairment);

checklist.setArthritis(arthritis);

checklist.setJointpain(jointpain);

checklist.setTremors(tremors);

checklist.setBloodtransfusion(bloodtransfusion);

checklist.setDeniedblood(deniedblood);

checklist.setPallor(pallor);

checklist.setDiabetes(familydiabetes);

checklist.setGoiter(goiter);

checklist.setBleedingbruising(bleedingbruising);

checklist.setWeightlossgain(weightlossgain);

checklist.setFrequentthirst(frequentthirst);

checklist.setFrequenthunger(frequenthunger);

checklist.setFrequenturination(frequenturination);

checklist.setChemotherapy(chemotherapy);

checklist.setUrinationpain(urinationpain);

checklist.setUrinebloodpus(urinebloodpus);

checklist.setHepatitis(hepatitis);

checklist.setHivpositive(hivpositive);

checklist.setPelvicdiscomfort(pelvicdiscomfort);

checklist.setNervousness(nervousness);

checklist.setDepression(depression);

checklist.setAnxiety(anxiety);

checklist.setCheckothers(checkothers);

checklist.setEnumeratecheckothers(enumeratecheckothers);

checklist.setFamilydiabetes(familydiabetes);

checklist.setFamilyheartdiseases(familyheartdiseases);

checklist.setFamilybleeding(familybleeding);

checklist.setFamilycancer(familycancer);

checklist.setFamilyothers(familyothers);

checklist.setEnumerateotherfamily(enumerateotherfamily);

checklist.setDrugallergy(drugallergy);

checklist.setEnumeratedrugs(enumeratedrugs);

checklist.setFoodallergy(foodallergy);

checklist.setEnumeratefood(enumeratefood);

checklist.setRubberallergy(rubberallergy);

checklist.setEnumeraterubber(enumeraterubber);

checklist.setOtherallergy(otherallergy);

checklist.setEnumerateothers(enumerateothers);

checklist.setPregnant(pregnant);

checklist.setMonthspregnant(monthspregnant);

checklist.setBreastfeeding(breastfeeding);

checklist.setHormonereplacement(hormonereplacement);

checklist.setMenstruation(menstruation);

checklist.setContraceptive(contraceptive);

checklist.setEnumeratecontraceptive(enumeratecontraceptive);


checklist.setUpdatedby(updatedby);

checklist.setDateupdated(dateupdated);

checklist.setTimeupdated(timeupdated);

checklist.setVersion(version);


Context.getService(DentalService.class).saveChecklist(checklist);
```

```
		ConsultationsReferrals
consultation = new
ConsultationsReferrals();

		consultation.setPatientid(patien
tid);

		consultation.setConsultationdat
e(consultationdate);

		consultation.setConsultationrea
son(consultationreason);

		consultation.setConsultationfro
m(consultationfrom);

		consultation.setConsultationto(
consultationto);

		consultation.setConsultationfin
dings(consultationfindings);

		consultation.setConsultationcli
nician(consultationcliniciannature);

		consultation.setConsultationcli
niciannature(consultationcliniciannature);


		consultation.setUpdatedby(upd
atedby);

		consultation.setDateupdated(da
teupdated);

		consultation.setTimeupdated(ti
meupdated);

		consultation.setConsultationver
sion(consultationversion);


		Context.getService(DentalServi
ce.class).saveConsultation(consultation);

			if (returnUrl ==
null)

		returnUrl =
"dentalChartLink.form?patientId=" +
patientid;

			// this goes to
/openmrs/module/patientnotes/notes.form
typically
			return "redirect:" +
returnUrl;
		}

		/**
		 * This class returns the form
backing object. This can be a string, a
boolean, or a normal java
		 * pojo. The bean name defined
in the ModelAttribute annotation and the
type can be just
		 * defined by the return type of
this method
		 */
		@ModelAttribute("thePatientLi
st")
		protected Collection<Patient>
formBackingObject(HttpServletRequest
request) throws Exception {
			// get all patients
that have an identifier "101" (from the
demo sample data)
			// see
http://resources.openmrs.org/doc/index.htm
l?org/openmrs/api/PatientService.html for
			// a list of all
PatientService methods

		Collection<Patient> patients =
Context.getPatientService().findPatients("1
23", false);

			// this object will be
made available to the jsp page under the
variable name
			// that is defined in
the @ModuleAttribute tag
			return patients;
		}


		@ModelAttribute("theDentalC
hart")
		protected DentalChart
getDentalChart(HttpServletRequest
request) throws Exception {
			// get all patients
that have an identifier "101" (from the
demo sample data)
			// see
http://resources.openmrs.org/doc/index.htm
l?org/openmrs/api/PatientService.html for
			// a list of all
PatientService methods
			//List<Patient>
patients =
Context.getPatientService().findPatients("1
23", false);
			// this object will be
made available to the jsp page under the
variable name
			// that is defined in
the @ModuleAttribute tag
			//return patients;
			String pid =
request.getParameter("patientId");
			Integer id =
Integer.parseInt(pid);
			List<DentalChart>
version =
Context.getService(DentalService.class).ge
tChartById(id);
			int infoversion =
version.size();
			Integer infover =
infoversion;
			DentalChart chart =
Context.getService(DentalService.class).ge
tChart(id, infover);

			return chart;
		}
		@ModelAttribute("theCariesSt
atus")
		protected CariesStatus
getCariesStatus(HttpServletRequest
request) throws Exception {
			// get all patients
that have an identifier "101" (from the
demo sample data)
			// see
http://resources.openmrs.org/doc/index.htm
l?org/openmrs/api/PatientService.html for
			// a list of all
PatientService methods
			//List<Patient>
patients =
Context.getPatientService().findPatients("1
23", false);
			// this object will be
made available to the jsp page under the
variable name
			// that is defined in
the @ModuleAttribute tag
			//return patients;
			String pid =
request.getParameter("patientId");
			Integer id =
Integer.parseInt(pid);
			List<CariesStatus>
version =
Context.getService(DentalService.class).ge
tCariesById(id);
			int infoversion =
version.size();
			Integer infover =
infoversion;
			CariesStatus caries
=
Context.getService(DentalService.class).ge
tCaries(id, infover);

			return caries;
		}
		@ModelAttribute("theRecurren
tStatus")
		protected RecurrentStatus
getRecurrentStatus(HttpServletRequest
request) throws Exception {
			// get all patients
that have an identifier "101" (from the
demo sample data)
			// see
http://resources.openmrs.org/doc/index.htm
l?org/openmrs/api/PatientService.html for
			// a list of all
PatientService methods
			//List<Patient>
patients =
Context.getPatientService().findPatients("1
23", false);
			// this object will be
made available to the jsp page under the
variable name
			// that is defined in
the @ModuleAttribute tag
			//return patients;
			String pid =
request.getParameter("patientId");
			Integer id =
Integer.parseInt(pid);

		List<RecurrentStatus> version
=
Context.getService(DentalService.class).ge
tRecurrentById(id);
			int infoversion =
version.size();
			Integer infover =
infoversion;
			RecurrentStatus
recurrent =
Context.getService(DentalService.class).ge
tRecurrent(id,infover);
```

```
                return recurrent;
        }
        @ModelAttribute("theRestorationStatus")
        protected RestorationStatus getRestorationStatus(HttpServletRequest request) throws Exception {
                // get all patients that have an identifier "101" (from the demo sample data)
                // see http://resources.openmrs.org/doc/index.html?org/openmrs/api/PatientService.html for
                // a list of all PatientService methods
                //List<Patient> patients = Context.getPatientService().findPatients("123", false);
                // this object will be made available to the jsp page under the variable name
                // that is defined in the @ModuleAttribute tag
                //return patients;
                String pid = request.getParameter("patientId");
                Integer id = Integer.parseInt(pid);
                RestorationStatus restoration = Context.getService(DentalService.class).getRestoration(id);

                return restoration;
        }

        @ModelAttribute("currentUser")
        protected String getCurrentUser(HttpServletRequest request) throws Exception {
                // get all patients that have an identifier "101" (from the demo sample data)
                // see http://resources.openmrs.org/doc/index.html?org/openmrs/api/PatientService.html for
                // a list of all PatientService methods
                //List<Patient> patients = Context.getPatientService().findPatients("123", false);
                // this object will be made available to the jsp page under the variable name
                // that is defined in the @ModuleAttribute tag
                //return patients;
                User user = Context.getUserContext().getAuthenticatedUser();

        user.getUsername();
                return user.getUsername();
        }

        @ModelAttribute("currentTime")
        protected String getCurrentTime() {
                Date time = new Date();
                SimpleDateFormat sdf=new SimpleDateFormat("HH:mm:ss");
                String strTime = sdf.format(time);
                return strTime;
        }

        @ModelAttribute("currentDate")
        protected String getCurrentDate() {
                Date date = new Date();
                SimpleDateFormat sdf=new SimpleDateFormat("yyyy-MM-dd");
                String strDate= sdf.format(date);
                return strDate;
        }

        @ModelAttribute("patientcount")
        protected Integer getPatientCount(HttpServletRequest request) throws Exception {
                // get all patients that have an identifier "101" (from the demo sample data)
                // see http://resources.openmrs.org/doc/index.html?org/openmrs/api/PatientService.html for
                // a list of all PatientService methods
                //List<Patient> patients = Context.getPatientService().findPatients("123", false);
                // this object will be made available to the jsp page under the variable name
                // that is defined in the @ModuleAttribute tag
                //return patients;
                String pid = request.getParameter("patientId");
                Integer id = Integer.parseInt(pid);
                List<DentalChart> chart = Context.getService(DentalService.class).getChartById(id);
                int size = chart.size();
                size = size + 1;
                return size;
        }

        @ModelAttribute("theAmalgamStatus")
        protected AmalgamStatus getAmalgamStatus(HttpServletRequest request) throws Exception {
                // get all patients that have an identifier "101" (from the demo sample data)
                // see http://resources.openmrs.org/doc/index.html?org/openmrs/api/PatientService.html for
                // a list of all PatientService methods
                //List<Patient> patients = Context.getPatientService().findPatients("123", false);
                // this object will be made available to the jsp page under the variable name
                // that is defined in the @ModuleAttribute tag
                //return patients;
                String pid = request.getParameter("patientId");
                Integer id = Integer.parseInt(pid);

        List<AmalgamStatus> version = Context.getService(DentalService.class).getAmalgamById(id);
                int infoversion = version.size();
                Integer infover = infoversion;
                AmalgamStatus amalgam = Context.getService(DentalService.class).getAmalgam(id, infover);

                return amalgam;
        }
        @ModelAttribute("theCompositeStatus")
        protected CompositeStatus getCompositeStatus(HttpServletRequest request) throws Exception {
                // get all patients that have an identifier "101" (from the demo sample data)
                // see http://resources.openmrs.org/doc/index.html?org/openmrs/api/PatientService.html for
                // a list of all PatientService methods
                //List<Patient> patients = Context.getPatientService().findPatients("123", false);
                // this object will be made available to the jsp page under the variable name
                // that is defined in the @ModuleAttribute tag
                //return patients;
                String pid = request.getParameter("patientId");
                Integer id = Integer.parseInt(pid);

        List<CompositeStatus> version = Context.getService(DentalService.class).getCompositeById(id);
                int infoversion = version.size();
                Integer infover = infoversion;
                CompositeStatus composite = Context.getService(DentalService.class).getComposite(id, infover);

                return composite;
        }
```

```
	@ModelAttribute("theGlassStatus")
	protected GlassStatus getGlassStatus(HttpServletRequest request) throws Exception {
		// get all patients that have an identifier "101" (from the demo sample data)
		// see http://resources.openmrs.org/doc/index.html?org/openmrs/api/PatientService.html for
		// a list of all PatientService methods
		//List<Patient> patients = Context.getPatientService().findPatients("123", false);
		// this object will be made available to the jsp page under the variable name
		// that is defined in the @ModuleAttribute tag
		//return patients;
		String pid = request.getParameter("patientId");
		Integer id = Integer.parseInt(pid);
		List<GlassStatus> version = Context.getService(DentalService.class).getGlassById(id);
		int infoversion = version.size();
		Integer infover = infoversion;
		GlassStatus glass = Context.getService(DentalService.class).getGlass(id, infover);

		return glass;
	}
	@ModelAttribute("theFillingStatus")
	protected FillingStatus getFillingStatus(HttpServletRequest request) throws Exception {
		// get all patients that have an identifier "101" (from the demo sample data)
		// see http://resources.openmrs.org/doc/index.html?org/openmrs/api/PatientService.html for
		// a list of all PatientService methods
		//List<Patient> patients = Context.getPatientService().findPatients("123", false);
		// this object will be made available to the jsp page under the variable name
		// that is defined in the @ModuleAttribute tag
		//return patients;
		String pid = request.getParameter("patientId");
		Integer id = Integer.parseInt(pid);
		List<FillingStatus> version = Context.getService(DentalService.class).getFillingById(id);
		int infoversion = version.size();
		Integer infover = infoversion;
		FillingStatus filling = Context.getService(DentalService.class).getFilling(id, infover);

		return filling;
	}
	@ModelAttribute("theServicesNeeded")
	protected ServicesNeeded getServicesNeeded(HttpServletRequest request) throws Exception {
		// get all patients that have an identifier "101" (from the demo sample data)
		// see http://resources.openmrs.org/doc/index.html?org/openmrs/api/PatientService.html for
		// a list of all PatientService methods
		//List<Patient> patients = Context.getPatientService().findPatients("123", false);
		// this object will be made available to the jsp page under the variable name
		// that is defined in the @ModuleAttribute tag
		//return patients;
		String pid = request.getParameter("patientId");
		Integer id = Integer.parseInt(pid);

		List<ServicesNeeded> version = Context.getService(DentalService.class).getServicesById(id);
		int infoversion = version.size();
		Integer infover = infoversion;
		ServicesNeeded services = Context.getService(DentalService.class).getServices(id, infover);

		return services;
	}
}
```

DentalFormsController.java

```
/**
 * The contents of this file are subject to the OpenMRS Public License

 * Version 1.0 (the "License"); you may not use this file except in
 * compliance with the License. You may obtain a copy of the License at
 * http://license.openmrs.org
 *
 * Software distributed under the License is distributed on an "AS IS"
 * basis, WITHOUT WARRANTY OF ANY KIND, either express or implied. See the
 * License for the specific language governing rights and limitations
 * under the License.
 *
 * Copyright (C) OpenMRS, LLC.  All Rights Reserved.
 */
package org.openmrs.module.dental.web.controller;

import java.text.SimpleDateFormat;

import java.util.Collection;



import java.util.Date;
import java.util.Enumeration;
import java.util.List;
import java.util.Set;

import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpSession;

import org.hibernate.SessionFactory;

import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;
import org.hibernate.Query;
import org.openmrs.Patient;
import org.openmrs.Person;
import org.openmrs.PersonAddress;
import org.openmrs.PersonAttribute;
import org.openmrs.User;
import org.openmrs.api.context.Context;
import org.openmrs.module.dental.ConsultationsReferrals;
import org.openmrs.module.dental.DentalHistory;
import org.openmrs.module.dental.MedicalHistory;
import org.openmrs.module.dental.PatientChecklist;
import org.openmrs.module.dental.PatientInfo;
import org.openmrs.module.dental.DentalService;
import org.openmrs.module.dental.PhysicalAssessment;
import org.openmrs.module.dental.RadiographicExam;
import org.openmrs.module.dental.SocialHistory;
import org.openmrs.module.dental.SoftTissue;
import org.openmrs.module.dental.VitalSigns;
import org.springframework.web.bind.WebDataBinder;
import org.springframework.web.bind.annotation.InitBinder;
import org.openmrs.propertyeditor.PatientEditor;
import org.springframework.stereotype.Controller;
import org.springframework.ui.ModelMap;
```

```
import
org.springframework.validation.BindingRe
sult;
import
org.springframework.web.bind.annotation.
ModelAttribute;
import
org.springframework.web.bind.annotation.
RequestMapping;
import
org.springframework.web.bind.annotation.
RequestMethod;
import
org.springframework.web.bind.annotation.
RequestParam;
import
org.springframework.web.servlet.support.R
equestContext;
/**
 * This class configured as controller using
annotation and mapped with the URL of
'module/basicmodule/basicmoduleLink.for
m'.
 */
@Controller
@RequestMapping(value =
"/module/dental/dentalForms.form")
public class DentalFormsController{

	/** Logger for this class and
subclasses */
	protected final Log log =
LogFactory.getLog(getClass());

	/** Success form view name */
	private final String
SUCCESS_FORM_VIEW =
"/module/dental/dentalForms";

	private SessionFactory
sessionFactory;

	/**
	 * Initially called after the
formBackingObject method to get the
landing form name
	 * @return String form view
name
	 */
	@RequestMapping(method =
RequestMethod.GET)
	public String
showForm(HttpServletRequest request){
		return
SUCCESS_FORM_VIEW;
	}

	/**
	 * All the parameters are
optional based on the necessity
	 *
	 * @param httpSession
	 * @param anyRequestObject
	 * @param errors
	 * @return
	 */
	@RequestMapping(method =
RequestMethod.POST)
	public String
onSubmit(HttpSession httpSession,

@ModelAttribute("anyRequestObject")
Object anyRequestObject, BindingResult
errors) {
		if
(errors.hasErrors()) {
			// return
error view
		}

		return
SUCCESS_FORM_VIEW;
	}

	/**
	 * This class returns the form
backing object. This can be a string, a
boolean, or a normal java
	 * pojo. The bean name defined
in the ModelAttribute annotation and the
type can be just
	 * defined by the return type of
this method
	 * @return
	 */
	@ModelAttribute("thePatientLi
st")
	protected Patient
getPatientWithID(HttpServletRequest
request) throws Exception {
		// get all patients
that have an identifier "101" (from the
demo sample data)
		// see
http://resources.openmrs.org/doc/index.htm
l?org/openmrs/api/PatientService.html for
		// a list of all
PatientService methods
		//List<Patient>
patients =
Context.getPatientService().findPatients("1
23", false);
		// this object will be
made available to the jsp page under the
variable name
		// that is defined in
the @ModuleAttribute tag
		//return patients;
		String what =
request.getParameter("patientId");
		int hell =
Integer.parseInt(what);
		Integer hello = new
Integer(hell);
		//Patient patients =
Context.getPatientService().getPatient(hel);
		Patient patient =
Context.getPatientService().getPatient(hell
o);
		return patient;
	}
	@ModelAttribute("theAgeList"
)
	protected Integer
getAgeAge(HttpServletRequest request)
throws Exception {
		// get all patients
that have an identifier "101" (from the
demo sample data)
		// see
http://resources.openmrs.org/doc/index.htm
l?org/openmrs/api/PatientService.html for
		// a list of all
PatientService methods
		//List<Patient>
patients =
Context.getPatientService().findPatients("1
23", false);
		// this object will be
made available to the jsp page under the
variable name
		// that is defined in
the @ModuleAttribute tag
		//return patients;
		String what =
request.getParameter("patientId");
		int hell =
Integer.parseInt(what);
		Integer hello = new
Integer(hell);
		Person patients =
Context.getPatientService().getPatient(hell
o);
		//Person someone =
Context.getPatientService().getPatient(hell
o);

		return
patients.getAge();


	}
	@ModelAttribute("theAddrList
")
	protected String
getAddy(HttpServletRequest request)
throws Exception {
		// get all patients
that have an identifier "101" (from the
demo sample data)
		// see
http://resources.openmrs.org/doc/index.htm
l?org/openmrs/api/PatientService.html for
		// a list of all
PatientService methods
		//List<Patient>
patients =
Context.getPatientService().findPatients("1
23", false);
		// this object will be
made available to the jsp page under the
variable name
		// that is defined in
the @ModuleAttribute tag
		//return patients;
		String what =
request.getParameter("patientId");
		int hell =
Integer.parseInt(what);
		Integer hello = new
Integer(hell);
		//Patient patients =
Context.getPatientService().getPatient(hel);
		Patient patient =
Context.getPatientService().getPatient(hell
o);
		PersonAddress
addr = patient.getPersonAddress();
		String addr1 =
addr.getAddress1();
		String city =
addr.getCityVillage();
		String country =
addr.getCountry();
		String zip =
addr.getPostalCode();
		String address =
addr1 + " " + city + " " + country + " " +
zip;
```

```
                return address;

        }
        @ModelAttribute("theSexList"
)
        protected String
getSex(HttpServletRequest request) throws
Exception {
                // get all patients
that have an identifier "101" (from the
demo sample data)
                // see
http://resources.openmrs.org/doc/index.htm
l?org/openmrs/api/PatientService.html for
                // a list of all
PatientService methods
                //List<Patient>
patients =
Context.getPatientService().findPatients("1
23", false);
                // this object will be
made available to the jsp page under the
variable name
                // that is defined in
the @ModuleAttribute tag
                //return patients;
                String what =
request.getParameter("patientId");
                int hell =
Integer.parseInt(what);
                Integer hello = new
Integer(hell);
                //Patient patients =
Context.getPatientService().getPatient(hel);
                Patient patient =
Context.getPatientService().getPatient(hell
o);

                return
patient.getGender();

        }
        @ModelAttribute("thePatientIn
fo")
        protected PatientInfo
getPatientInfo(HttpServletRequest request)
throws Exception {
                // get all patients
that have an identifier "101" (from the
demo sample data)
                // see
http://resources.openmrs.org/doc/index.htm
l?org/openmrs/api/PatientService.html for
                // a list of all
PatientService methods
                //List<Patient>
patients =
Context.getPatientService().findPatients("1
23", false);
                // this object will be
made available to the jsp page under the
variable name
                // that is defined in
the @ModuleAttribute tag
                //return patients;
                String pid =
request.getParameter("patientId");
                Integer id =
Integer.parseInt(pid);
                List<PatientInfo>
version =
Context.getService(DentalService.class).ge
tInfoById(id);
                int infoversion =
version.size();
                Integer infover =
infoversion;
                PatientInfo info =
Context.getService(DentalService.class).ge
tInfo(id, infover);
                return info;
        }

        @ModelAttribute("theDentalHi
story")
        protected DentalHistory
getDentalHistory(HttpServletRequest
request) throws Exception {
                // get all patients
that have an identifier "101" (from the
demo sample data)
                // see
http://resources.openmrs.org/doc/index.htm
l?org/openmrs/api/PatientService.html for
                // a list of all
PatientService methods
                //List<Patient>
patients =
Context.getPatientService().findPatients("1
23", false);
                // this object will be
made available to the jsp page under the
variable name
                // that is defined in
the @ModuleAttribute tag
                //return patients;
                String pid =
request.getParameter("patientId");
                Integer id =
Integer.parseInt(pid);

        List<DentalHistory> version =
Context.getService(DentalService.class).ge
tDentalhistoById(id);
                int infoversion =
version.size();
                Integer infover =
infoversion;
                DentalHistory
dentalhisto =
Context.getService(DentalService.class).ge
tDentalhisto(id, infover);
                return dentalhisto;
        }
        @ModelAttribute("thePhysical
Assessment")
        protected PhysicalAssessment
getPhysicalAssessment(HttpServletRequest
request) throws Exception {
                // get all patients
that have an identifier "101" (from the
demo sample data)
                // see
http://resources.openmrs.org/doc/index.htm
l?org/openmrs/api/PatientService.html for
                // a list of all
PatientService methods
                //List<Patient>
patients =
Context.getPatientService().findPatients("1
23", false);
                // this object will be
made available to the jsp page under the
variable name
                // that is defined in
the @ModuleAttribute tag
                //return patients;
                String pid =
request.getParameter("patientId");
                Integer id =
Integer.parseInt(pid);

        List<PhysicalAssessment>
version =
Context.getService(DentalService.class).ge
tAssessmentById(id);
                int infoversion =
version.size();
                Integer infover =
infoversion;

        PhysicalAssessment
assessment =
Context.getService(DentalService.class).ge
tAssessment(id, infover);
                return assessment;
        }
        @ModelAttribute("theVitalSig
ns")
        protected VitalSigns
getVitalSigns(HttpServletRequest request)
throws Exception {
                // get all patients
that have an identifier "101" (from the
demo sample data)
                // see
http://resources.openmrs.org/doc/index.htm
l?org/openmrs/api/PatientService.html for
                // a list of all
PatientService methods
                //List<Patient>
patients =
Context.getPatientService().findPatients("1
23", false);
                // this object will be
made available to the jsp page under the
variable name
                // that is defined in
the @ModuleAttribute tag
                //return patients;
                String pid =
request.getParameter("patientId");
                Integer id =
Integer.parseInt(pid);
                List<VitalSigns>
version =
Context.getService(DentalService.class).ge
tVitalById(id);
                int infoversion =
version.size();
                VitalSigns vital =
Context.getService(DentalService.class).ge
tVital(id, infoversion);
                return vital;
        }
        @ModelAttribute("theMedical
History")
        protected MedicalHistory
getMedicalHistory(HttpServletRequest
request) throws Exception {
                // get all patients
that have an identifier "101" (from the
demo sample data)
                // see
http://resources.openmrs.org/doc/index.htm
l?org/openmrs/api/PatientService.html for
                // a list of all
PatientService methods
                //List<Patient>
patients =
```

```
Context.getPatientService().findPatients("123", false);
                        // this object will be made available to the jsp page under the variable name
                        // that is defined in the @ModuleAttribute tag
                        //return patients;
                        String pid = request.getParameter("patientId");
                        Integer id = Integer.parseInt(pid);

                List<MedicalHistory> version = Context.getService(DentalService.class).getMedhistoById(id);
                        int infoversion = version.size();
                        MedicalHistory medhisto = Context.getService(DentalService.class).getMedhisto(id, infoversion);
                        return medhisto;
                }
                @ModelAttribute("theSocialHistory")
                protected SocialHistory getSocialHistory(HttpServletRequest request) throws Exception {
                        // get all patients that have an identifier "101" (from the demo sample data)
                        // see http://resources.openmrs.org/doc/index.html?org/openmrs/api/PatientService.html for
                        // a list of all PatientService methods
                        //List<Patient> patients = Context.getPatientService().findPatients("123", false);
                        // this object will be made available to the jsp page under the variable name
                        // that is defined in the @ModuleAttribute tag
                        //return patients;
                        String pid = request.getParameter("patientId");
                        Integer id = Integer.parseInt(pid);

                List<SocialHistory> version = Context.getService(DentalService.class).getSocialhistoById(id);
                        int infoversion = version.size();
                        Integer infover = infoversion;
                        SocialHistory socialhisto = Context.getService(DentalService.class).getSocialhisto(id, infover);
                        return socialhisto;
                }
                @ModelAttribute("theSoftTissue")
                protected SoftTissue getSoftTissue(HttpServletRequest request) throws Exception {
                        // get all patients that have an identifier "101" (from the demo sample data)
                        // see http://resources.openmrs.org/doc/index.html?org/openmrs/api/PatientService.html for
                        // a list of all PatientService methods
                        //List<Patient> patients = Context.getPatientService().findPatients("123", false);
                        // this object will be made available to the jsp page under the variable name
                        // that is defined in the @ModuleAttribute tag
                        //return patients;
                        String pid = request.getParameter("patientId");
                        Integer id = Integer.parseInt(pid);
                        List<SoftTissue> version = Context.getService(DentalService.class).getTissueById(id);
                        int infoversion = version.size();
                        Integer infover = infoversion;
                        SoftTissue tissue = Context.getService(DentalService.class).getTissue(id, infover);
                        return tissue;
                }

                @ModelAttribute("currentUser")
                protected String getCurrentUser(HttpServletRequest request) throws Exception {
                        // get all patients that have an identifier "101" (from the demo sample data)
                        // see http://resources.openmrs.org/doc/index.html?org/openmrs/api/PatientService.html for
                        // a list of all PatientService methods
                        //List<Patient> patients = Context.getPatientService().findPatients("123", false);
                        // this object will be made available to the jsp page under the variable name
                        // that is defined in the @ModuleAttribute tag
                        //return patients;
                        User user = Context.getUserContext().getAuthenticatedUser();

                user.getUsername();
                        return user.getUsername();
                }

                @ModelAttribute("currentTime")
                protected String getCurrentTime() {
                        Date time = new Date();
                        SimpleDateFormat sdf=new SimpleDateFormat("HH:mm:ss");
                        String strTime = sdf.format(time);
                        return strTime;
                }

                @ModelAttribute("currentDate")
                protected String getCurrentDate() {
                        Date date = new Date();
                        SimpleDateFormat sdf=new SimpleDateFormat("yyyy-MM-dd");
                        String strDate= sdf.format(date);
                        return strDate;
                }

                /*@ModelAttribute("patientcount")
                protected Long getPatientCount(HttpServletRequest request) throws Exception {
                        // get all patients that have an identifier "101" (from the demo sample data)
                        // see http://resources.openmrs.org/doc/index.html?org/openmrs/api/PatientService.html for
                        // a list of all PatientService methods
                        //List<Patient> patients = Context.getPatientService().findPatients("123", false);
                        // this object will be made available to the jsp page under the variable name
                        // that is defined in the @ModuleAttribute tag
                        //return patients;
                        String pid = request.getParameter("patientId");
                        Integer id = Integer.parseInt(pid);
                        Query query = sessionFactory.getCurrentSession().createQuery("SELECT COUNT(*) FROM patient_additional_info where patient_id = '2'");
                        Long result= (Long) query.uniqueResult();
                        result = result + 1;
                        return result;
                }*/

                @ModelAttribute("patientcount")
                protected Integer getPatientCount(HttpServletRequest request) throws Exception {
                        // get all patients that have an identifier "101" (from the demo sample data)
                        // see http://resources.openmrs.org/doc/index.html?org/openmrs/api/PatientService.html for
                        // a list of all PatientService methods
                        //List<Patient> patients = Context.getPatientService().findPatients("123", false);
```

```
                        // this object will be
made available to the jsp page under the
variable name
                        // that is defined in
the @ModuleAttribute tag
                        //return patients;
                        String pid =
request.getParameter("patientId");
                        Integer id =
Integer.parseInt(pid);
                        List<PatientInfo>
info =
Context.getService(DentalService.class).ge
tInfoById(id);
                        int size =
info.size();
                        size = size + 1;
                        return size;
                }

                @ModelAttribute("radiographi
cversion")
                protected Integer
getRadioversion(HttpServletRequest
request) throws Exception {
                        // get all patients
that have an identifier "101" (from the
demo sample data)
                        // see
http://resources.openmrs.org/doc/index.htm
l?org/openmrs/api/PatientService.html for
                        // a list of all
PatientService methods
                        //List<Patient>
patients =
Context.getPatientService().findPatients("1
23", false);
                        // this object will be
made available to the jsp page under the
variable name
                        // that is defined in
the @ModuleAttribute tag
                        //return patients;
                        String pid =
request.getParameter("patientId");
                        Integer id =
Integer.parseInt(pid);

                List<RadiographicExam> info
=
Context.getService(DentalService.class).ge
tRadiographicById(id);
                        int size =
info.size();
                        size = size + 1;
                        return size;
                }

                @ModelAttribute("consultation
version")
                protected Integer
getConsultationversion(HttpServletRequest
request) throws Exception {
                        // get all patients
that have an identifier "101" (from the
demo sample data)
                        // see
http://resources.openmrs.org/doc/index.htm
l?org/openmrs/api/PatientService.html for
                        // a list of all
PatientService methods
                        //List<Patient>
patients =
Context.getPatientService().findPatients("1
23", false);
                        // this object will be
made available to the jsp page under the
variable name
                        // that is defined in
the @ModuleAttribute tag
                        //return patients;
                        String pid =
request.getParameter("patientId");
                        Integer id =
Integer.parseInt(pid);

                List<ConsultationsReferrals>
info =
Context.getService(DentalService.class).ge
tConsultationById(id);
                        int size =
info.size();
                        size = size + 1;
                        return size;
                }

                @ModelAttribute("radiographi
cexam")
                protected RadiographicExam
getRadiographicExam(HttpServletRequest
request) throws Exception {
                        // get all patients
that have an identifier "101" (from the
demo sample data)
                        // see
http://resources.openmrs.org/doc/index.htm
l?org/openmrs/api/PatientService.html for
                        // a list of all
PatientService methods
                        //List<Patient>
patients =
Context.getPatientService().findPatients("1
23", false);
                        // this object will be
made available to the jsp page under the
variable name
                        // that is defined in
the @ModuleAttribute tag
                        //return patients;
                        String pid =
request.getParameter("patientId");
                        Integer id =
Integer.parseInt(pid);

                List<RadiographicExam>
version =
Context.getService(DentalService.class).ge
tRadiographicById(id);
                        int infoversion =
version.size();
                        Integer infover =
infoversion;
                        RadiographicExam
radiographic =
Context.getService(DentalService.class).ge
tRadiographic(id, infover);
                        return radiographic;
                }

                @ModelAttribute("patientchec
klist")
                protected PatientChecklist
getChecklist(HttpServletRequest request)
throws Exception {
                        // get all patients
that have an identifier "101" (from the
demo sample data)
                        // see
http://resources.openmrs.org/doc/index.htm
l?org/openmrs/api/PatientService.html for
                        // a list of all
PatientService methods
                        //List<Patient>
patients =
Context.getPatientService().findPatients("1
23", false);
                        // this object will be
made available to the jsp page under the
variable name
                        // that is defined in
the @ModuleAttribute tag
                        //return patients;
                        String pid =
request.getParameter("patientId");
                        Integer id =
Integer.parseInt(pid);

                List<PatientChecklist> version
=
Context.getService(DentalService.class).ge
tChecklistById(id);
                        int infoversion =
version.size();
                        Integer infover =
infoversion;
                        PatientChecklist
checklist =
Context.getService(DentalService.class).ge
tChecklist(id, infover);
                        return checklist;
                }

                @ModelAttribute("consultation
s")
                protected
ConsultationsReferrals
getConsultations(HttpServletRequest
request) throws Exception {
                        // get all patients
that have an identifier "101" (from the
demo sample data)
                        // see
http://resources.openmrs.org/doc/index.htm
l?org/openmrs/api/PatientService.html for
                        // a list of all
PatientService methods
                        //List<Patient>
patients =
Context.getPatientService().findPatients("1
23", false);
                        // this object will be
made available to the jsp page under the
variable name
                        // that is defined in
the @ModuleAttribute tag
                        //return patients;
                        String pid =
request.getParameter("patientId");
                        Integer id =
Integer.parseInt(pid);

                List<ConsultationsReferrals>
version =
Context.getService(DentalService.class).ge
tConsultationById(id);
                        int infoversion =
version.size();
                        Integer infover =
infoversion;

                ConsultationsReferrals
```

```
consultation =
Context.getService(DentalService.class).ge
tConsultation(id, infover);
                        return consultation;
        }

        @ModelAttribute("consultation
slist")
        protected
List<ConsultationsReferrals>
getConsultlist(HttpServletRequest request)
throws Exception {
                        // get all patients
that have an identifier "101" (from the
demo sample data)
                        // see
http://resources.openmrs.org/doc/index.htm
l?org/openmrs/api/PatientService.html for
                        // a list of all
PatientService methods
                        //List<Patient>
patients =
Context.getPatientService().findPatients("1
23", false);
                        // this object will be
made available to the jsp page under the
variable name
                        // that is defined in
the @ModuleAttribute tag
                        //return patients;
                        String pid =
request.getParameter("patientId");
                        Integer id =
Integer.parseInt(pid);

        List<ConsultationsReferrals>
consultlist =
Context.getService(DentalService.class).ge
tConsultationById(id);
                        return consultlist;
        }

}
```

SearchLogsController.java

```
/**
 * The contents of this file are subject to the
OpenMRS Public License
 * Version 1.0 (the "License"); you may not
use this file except in
 * compliance with the License. You may
obtain a copy of the License at
 * http://license.openmrs.org
 *
 * Software distributed under the License is
distributed on an "AS IS"
 * basis, WITHOUT WARRANTY OF
ANY KIND, either express or implied. See
the
 * License for the specific language
governing rights and limitations
 * under the License.
 *
 * Copyright (C) OpenMRS, LLC.  All
Rights Reserved.
 */
package
org.openmrs.module.dental.web.controller;

import java.text.SimpleDateFormat;
import java.util.Collection;
import java.util.Date;
import java.util.List;
import
javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpSession;

import org.apache.commons.logging.Log;
import
org.apache.commons.logging.LogFactory;
import org.openmrs.Patient;
import org.openmrs.api.context.Context;
import
org.openmrs.module.dental.AmalgamStatu
s;
import
org.openmrs.module.dental.CariesStatus;
import
org.openmrs.module.dental.CompositeStat
us;
import
org.openmrs.module.dental.DentalChart;
import
org.openmrs.module.dental.DentalService;
import
org.openmrs.module.dental.FillingStatus;
import
org.openmrs.module.dental.GlassStatus;
import
org.openmrs.module.dental.PatientInfo;
import
org.openmrs.module.dental.RecordViews;
import
org.openmrs.module.dental.RecurrentStatu
s;
import
org.openmrs.module.dental.RestorationStat
us;
import
org.openmrs.module.dental.ServicesNeede
d;
import
org.springframework.stereotype.Controller;
import
org.springframework.validation.BindingRe
sult;
import
org.springframework.web.bind.annotation.
ModelAttribute;
import
org.springframework.web.bind.annotation.
RequestMapping;
import
org.springframework.web.bind.annotation.
RequestMethod;
import
org.springframework.web.bind.annotation.
RequestParam;

/**
 * This class configured as controller using
annotation and mapped with the URL of
'module/basicmodule/basicmoduleLink.for
m'.
 */
@Controller
@RequestMapping(value =
"/module/dental/searchLogs.form")
public class SearchLogsController{

        /** Logger for this class and
subclasses */
        protected final Log log =
LogFactory.getLog(getClass());

        /** Success form view name */
        private final String
SUCCESS_FORM_VIEW =
"/module/dental/searchLogs";

        /**
         * Initially called after the
formBackingObject method to get the
landing form name
         * @return String form view
name
         */
        @RequestMapping(method =
RequestMethod.GET)
        public String showForm(){
                return
SUCCESS_FORM_VIEW;
        }

        /**
         * All the parameters are
optional based on the necessity
         *
         * @param httpSession
         * @param anyRequestObject
         * @param errors
         * @return
         */
        @RequestMapping(method =
RequestMethod.POST)
        public String
onSubmit(HttpSession httpSession,

@ModelAttribute("anyRequestObject")
Object anyRequestObject, BindingResult
errors) {

                if
(errors.hasErrors()) {
                        // return
error view
                }

                return
SUCCESS_FORM_VIEW;
        }
        @ModelAttribute("searchlogs"
)
        //@RequestMapping(value =
"/module/dental/searchLogs", method =
RequestMethod.POST)
        protected List<RecordViews>
searchLogs(
    @RequestParam(value="month",
required=false) String month,

        @RequestParam(value="year",
required=false) String year)
                {

        List<RecordViews> views =
Context.getService(DentalService.class).ge
tViewsByYearMonth(year,month);
                return views;
        }
        @ModelAttribute("month")
        //@RequestMapping(value =
"/module/dental/searchLogs", method =
RequestMethod.POST)
        protected String searchMonth(
    @RequestParam(value="month",
required=false) String month)
                {
                return month;
        }
```

```
	@ModelAttribute("year")
	//@RequestMapping(value =
"/module/dental/searchLogs", method =
RequestMethod.POST)
	protected String searchYear(
      @RequestParam(value="year",
required=false) String year)
				{
				return year;
	}

	@ModelAttribute("checkviews
")
	protected Boolean checkViews(

@RequestParam(value="year",
required=false) String year,

@RequestParam(value="month",
required=false) String month) {


	List<RecordViews> views =
Context.getService(DentalService.class).ge
tViewsByYearMonth(year, month);
				return
views.isEmpty();
	}
}
```

ViewRecordController.java

```
/**
 * The contents of this file are subject to the
OpenMRS Public License

 * Version 1.0 (the "License"); you may not
use this file except in
 * compliance with the License. You may
obtain a copy of the License at
 * http://license.openmrs.org
 *
 * Software distributed under the License is
distributed on an "AS IS"
 * basis, WITHOUT WARRANTY OF
ANY KIND, either express or implied. See
the
 * License for the specific language
governing rights and limitations
 * under the License.
 *
 * Copyright (C) OpenMRS, LLC.  All
Rights Reserved.
 */
package
org.openmrs.module.dental.web.controller;

import java.util.Collection;



import java.util.Enumeration;
import java.util.List;
import java.util.Set;

import
javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpSession;

import org.apache.commons.logging.Log;
import
org.apache.commons.logging.LogFactory;
import org.openmrs.Patient;
import org.openmrs.Person;
import org.openmrs.PersonAddress;
import org.openmrs.PersonAttribute;
import org.openmrs.User;
import org.openmrs.api.context.Context;
import
org.openmrs.module.dental.ConsultationsR
eferrals;
import
org.openmrs.module.dental.DentalHistory;
import
org.openmrs.module.dental.MedicalHistory
;
import
org.openmrs.module.dental.PatientChecklis
t;
import
org.openmrs.module.dental.PatientInfo;
import
org.openmrs.module.dental.DentalService;
import
org.openmrs.module.dental.PhysicalAssess
ment;
import
org.openmrs.module.dental.RadiographicE
xam;
import
org.openmrs.module.dental.RecordViews;
import
org.openmrs.module.dental.ServicesNeede
d;
import
org.openmrs.module.dental.SocialHistory;
import
org.openmrs.module.dental.SoftTissue;
import
org.openmrs.module.dental.VitalSigns;
import
org.springframework.web.bind.WebDataBi
nder;
import
org.springframework.web.bind.annotation.I
nitBinder;
import
org.openmrs.propertyeditor.PatientEditor;
import
org.springframework.stereotype.Controller;
import org.springframework.ui.ModelMap;
import
org.springframework.validation.BindingRe
sult;
import
org.springframework.web.bind.annotation.
ModelAttribute;
import
org.springframework.web.bind.annotation.
RequestMapping;
import
org.springframework.web.bind.annotation.
RequestMethod;
import
org.springframework.web.bind.annotation.
RequestParam;
import
org.springframework.web.servlet.support.R
equestContext;
/**
 * This class configured as controller using
annotation and mapped with the URL of
'module/basicmodule/basicmoduleLink.for
m'.
 */
@Controller
@RequestMapping(value =
"/module/dental/viewRecord.form")
public class ViewRecordController{

	/** Logger for this class and
subclasses */
	protected final Log log =
LogFactory.getLog(getClass());

	/** Success form view name */
	private final String
SUCCESS_FORM_VIEW =
"/module/dental/viewRecord";

	/**
	 * Initially called after the
formBackingObject method to get the
landing form name
	 * @return String form view
name
	 */
	@RequestMapping(method =
RequestMethod.GET)
	public String
showForm(HttpServletRequest request){
			return
SUCCESS_FORM_VIEW;
	}

	/**
	 * All the parameters are
optional based on the necessity
	 *
	 * @param httpSession
	 * @param anyRequestObject
	 * @param errors
	 * @return
	 */
	@RequestMapping(method =
RequestMethod.POST)
	public String
onSubmit(HttpSession httpSession,

@ModelAttribute("anyRequestObject")
Object anyRequestObject, BindingResult
errors) {

			if
(errors.hasErrors()) {
				// return
error view
			}

			return
SUCCESS_FORM_VIEW;
	}

	@RequestMapping(value =
"/module/dental/viewRecord", method =
RequestMethod.POST)
	public String addViews(

@RequestParam("patientid") Integer
patientid,

	@RequestParam("username")
String username,

	@RequestParam("patientname"
) String patientname,

	@RequestParam("accessdate")
String accessdate,
```

```
		@RequestParam("accesstime")
String accesstime,

		@RequestParam("month")
String month,

		@RequestParam("exactdate")
String exactdate,

		@RequestParam("year") String
year,

		@RequestParam("userfullname
") String userfullname,

		@RequestParam(value =
"returnUrl", required = false) String
returnUrl) {

			RecordViews
views = new RecordViews();

		views.setPatientid(patientid);

		views.setUsername(username);

		views.setUserfullname(userfull
name);

		views.setPatientname(patientna
me);

		views.setAccessdate(accessdate
);

		views.setAccesstime(accesstim
e);

		views.setMonth(month);

		views.setExactdate(exactdate);

		views.setYear(year);

		Context.getService(DentalServi
ce.class).saveViews(views);

			if (returnUrl ==
null)

		returnUrl =
"viewRecord.form?patientId=" + patientid;

			// this goes to
/openmrs/module/patientnotes/notes.form
typically
			return "redirect:" +
returnUrl;
		}


		/**
		 * This class returns the form
backing object. This can be a string, a
boolean, or a normal java
		 * pojo. The bean name defined
in the ModelAttribute annotation and the
type can be just
		 * defined by the return type of
this method
		 * @return
		 */
		@ModelAttribute("thePatientLi
st")
		protected Patient
getPatientWithID(HttpServletRequest
request) throws Exception {
			// get all patients
that have an identifier "101" (from the
demo sample data)
			// see
http://resources.openmrs.org/doc/index.htm
l?org/openmrs/api/PatientService.html for
			// a list of all
PatientService methods
			//List<Patient>
patients =
Context.getPatientService().findPatients("1
23", false);
			// this object will be
made available to the jsp page under the
variable name
			// that is defined in
the @ModuleAttribute tag
			//return patients;
			String what =
request.getParameter("patientId");
			int hell =
Integer.parseInt(what);
			Integer hello = new
Integer(hell);
			//Patient patients =
Context.getPatientService().getPatient(hel);
			Patient patient =
Context.getPatientService().getPatient(hell
o);
			return patient;
		}
		@ModelAttribute("theAgeList"
)
		protected Integer
getAgeAge(HttpServletRequest request)
throws Exception {
			// get all patients
that have an identifier "101" (from the
demo sample data)
			// see
http://resources.openmrs.org/doc/index.htm
l?org/openmrs/api/PatientService.html for
			// a list of all
PatientService methods
			//List<Patient>
patients =
Context.getPatientService().findPatients("1
23", false);
			// this object will be
made available to the jsp page under the
variable name
			// that is defined in
the @ModuleAttribute tag
			//return patients;
			String what =
request.getParameter("patientId");
			int hell =
Integer.parseInt(what);
			Integer hello = new
Integer(hell);
			Person patients =
Context.getPatientService().getPatient(hell
o);
			//Person someone =
Context.getPatientService().getPatient(hell
o);

			return
patients.getAge();
		}
		@ModelAttribute("theAddrList
")
		protected String
getAddy(HttpServletRequest request)
throws Exception {
			// get all patients
that have an identifier "101" (from the
demo sample data)
			// see
http://resources.openmrs.org/doc/index.htm
l?org/openmrs/api/PatientService.html for
			// a list of all
PatientService methods
			//List<Patient>
patients =
Context.getPatientService().findPatients("1
23", false);
			// this object will be
made available to the jsp page under the
variable name
			// that is defined in
the @ModuleAttribute tag
			//return patients;
			String what =
request.getParameter("patientId");
			int hell =
Integer.parseInt(what);
			Integer hello = new
Integer(hell);
			//Patient patients =
Context.getPatientService().getPatient(hel);
			Patient patient =
Context.getPatientService().getPatient(hell
o);
			PersonAddress
addr = patient.getPersonAddress();
			String addr1 =
addr.getAddress1();
			String city =
addr.getCityVillage();
			String country =
addr.getCountry();
			String zip =
addr.getPostalCode();
			String address =
addr1 + " " + city + " " + country + " " +
zip;

			return address;

		}
		@ModelAttribute("theSexList"
)
		protected String
getSex(HttpServletRequest request) throws
Exception {
			// get all patients
that have an identifier "101" (from the
demo sample data)
			// see
http://resources.openmrs.org/doc/index.htm
l?org/openmrs/api/PatientService.html for
			// a list of all
PatientService methods
			//List<Patient>
patients =
Context.getPatientService().findPatients("1
23", false);
			// this object will be
made available to the jsp page under the
variable name
```

```
                        // that is defined in
the @ModuleAttribute tag
                        //return patients;
                        String what =
request.getParameter("patientId");
                        int hell =
Integer.parseInt(what);
                        Integer hello = new
Integer(hell);
                        //Patient patients =
Context.getPatientService().getPatient(hel);
                        Patient patient =
Context.getPatientService().getPatient(hell
o);

                        return
patient.getGender();

                }
                @ModelAttribute("thePatientIn
fo")
                protected PatientInfo
getPatientInfo(HttpServletRequest request)
throws Exception {
                        // get all patients
that have an identifier "101" (from the
demo sample data)
                        // see
http://resources.openmrs.org/doc/index.htm
l?org/openmrs/api/PatientService.html for
                        // a list of all
PatientService methods
                        //List<Patient>
patients =
Context.getPatientService().findPatients("1
23", false);
                        // this object will be
made available to the jsp page under the
variable name
                        // that is defined in
the @ModuleAttribute tag
                        //return patients;
                        String pid =
request.getParameter("patientId");
                        Integer id =
Integer.parseInt(pid);
                        List<PatientInfo>
version =
Context.getService(DentalService.class).ge
tInfoById(id);
                        int infoversion =
version.size();
                        Integer infover =
infoversion;
                        PatientInfo info =
Context.getService(DentalService.class).ge
tInfo(id, infover);
                        return info;
                }

                @ModelAttribute("theDentalHi
story")
                protected DentalHistory
getDentalHistory(HttpServletRequest
request) throws Exception {
                        // get all patients
that have an identifier "101" (from the
demo sample data)
                        // see
http://resources.openmrs.org/doc/index.htm
l?org/openmrs/api/PatientService.html for
                        // a list of all
PatientService methods
                        //List<Patient>
patients =
Context.getPatientService().findPatients("1
23", false);
                        // this object will be
made available to the jsp page under the
variable name
                        // that is defined in
the @ModuleAttribute tag
                        //return patients;
                        String pid =
request.getParameter("patientId");
                        Integer id =
Integer.parseInt(pid);

                List<DentalHistory> version =
Context.getService(DentalService.class).ge
tDentalhistoById(id);
                        int infoversion =
version.size();
                        Integer infover =
infoversion;
                        DentalHistory
dentalhisto =
Context.getService(DentalService.class).ge
tDentalhisto(id, infover);
                        return dentalhisto;
                }
                @ModelAttribute("thePhysical
Assessment")
                protected PhysicalAssessment
getPhysicalAssessment(HttpServletRequest
request) throws Exception {
                        // get all patients
that have an identifier "101" (from the
demo sample data)
                        // see
http://resources.openmrs.org/doc/index.htm
l?org/openmrs/api/PatientService.html for
                        // a list of all
PatientService methods
                        //List<Patient>
patients =
Context.getPatientService().findPatients("1
23", false);
                        // this object will be
made available to the jsp page under the
variable name
                        // that is defined in
the @ModuleAttribute tag
                        //return patients;
                        String pid =
request.getParameter("patientId");
                        Integer id =
Integer.parseInt(pid);

                List<PhysicalAssessment>
version =
Context.getService(DentalService.class).ge
tAssessmentById(id);
                        int infoversion =
version.size();
                        Integer infover =
infoversion;

                PhysicalAssessment
assessment =
Context.getService(DentalService.class).ge
tAssessment(id, infover);
                        return assessment;
                }
                @ModelAttribute("theVitalSig
ns")
                protected VitalSigns
getVitalSigns(HttpServletRequest request)
throws Exception {
                        // get all patients
that have an identifier "101" (from the
demo sample data)
                        // see
http://resources.openmrs.org/doc/index.htm
l?org/openmrs/api/PatientService.html for
                        // a list of all
PatientService methods
                        //List<Patient>
patients =
Context.getPatientService().findPatients("1
23", false);
                        // this object will be
made available to the jsp page under the
variable name
                        // that is defined in
the @ModuleAttribute tag
                        //return patients;
                        String pid =
request.getParameter("patientId");
                        Integer id =
Integer.parseInt(pid);
                        List<VitalSigns>
version =
Context.getService(DentalService.class).ge
tVitalById(id);
                        int infoversion =
version.size();
                        VitalSigns vital =
Context.getService(DentalService.class).ge
tVital(id, infoversion);
                        return vital;
                }
                @ModelAttribute("theMedical
History")
                protected MedicalHistory
getMedicalHistory(HttpServletRequest
request) throws Exception {
                        // get all patients
that have an identifier "101" (from the
demo sample data)
                        // see
http://resources.openmrs.org/doc/index.htm
l?org/openmrs/api/PatientService.html for
                        // a list of all
PatientService methods
                        //List<Patient>
patients =
Context.getPatientService().findPatients("1
23", false);
                        // this object will be
made available to the jsp page under the
variable name
                        // that is defined in
the @ModuleAttribute tag
                        //return patients;
                        String pid =
request.getParameter("patientId");
                        Integer id =
Integer.parseInt(pid);

                List<MedicalHistory> version
=
Context.getService(DentalService.class).ge
tMedhistoById(id);
                        int infoversion =
version.size();
                        Integer infover =
infoversion;
                        MedicalHistory
medhisto =
```

```
Context.getService(DentalService.class).getMedhisto(id, infover);
                return medhisto;
        }
        @ModelAttribute("theSocialHistory")
        protected SocialHistory getSocialHistory(HttpServletRequest request) throws Exception {
                // get all patients that have an identifier "101" (from the demo sample data)
                // see http://resources.openmrs.org/doc/index.html?org/openmrs/api/PatientService.html for
                // a list of all PatientService methods
                //List<Patient> patients = Context.getPatientService().findPatients("123", false);
                // this object will be made available to the jsp page under the variable name
                // that is defined in the @ModuleAttribute tag
                //return patients;
                String pid = request.getParameter("patientId");
                Integer id = Integer.parseInt(pid);

        List<SocialHistory> version = Context.getService(DentalService.class).getSocialhistoById(id);
                int infoversion = version.size();
                Integer infover = infoversion;
                SocialHistory socialhisto = Context.getService(DentalService.class).getSocialhisto(id, infover);
                return socialhisto;
        }
        @ModelAttribute("theSoftTissue")
        protected SoftTissue getSoftTissue(HttpServletRequest request) throws Exception {
                // get all patients that have an identifier "101" (from the demo sample data)
                // see http://resources.openmrs.org/doc/index.html?org/openmrs/api/PatientService.html for
                // a list of all PatientService methods
                //List<Patient> patients = Context.getPatientService().findPatients("123", false);
                // this object will be made available to the jsp page under the variable name
                // that is defined in the @ModuleAttribute tag
                //return patients;
                String pid = request.getParameter("patientId");
                Integer id = Integer.parseInt(pid);
                List<SoftTissue> version = Context.getService(DentalService.class).getTissueById(id);
                int infoversion = version.size();
                Integer infover = infoversion;
                SoftTissue tissue = Context.getService(DentalService.class).getTissue(id, infover);
                return tissue;
        }
        @ModelAttribute("radiographicexam")
        protected RadiographicExam getRadiographicExam(HttpServletRequest request) throws Exception {
                // get all patients that have an identifier "101" (from the demo sample data)
                // see http://resources.openmrs.org/doc/index.html?org/openmrs/api/PatientService.html for
                // a list of all PatientService methods
                //List<Patient> patients = Context.getPatientService().findPatients("123", false);
                // this object will be made available to the jsp page under the variable name
                // that is defined in the @ModuleAttribute tag
                //return patients;
                String pid = request.getParameter("patientId");
                Integer id = Integer.parseInt(pid);

        List<RadiographicExam> version = Context.getService(DentalService.class).getRadiographicById(id);
                int infoversion = version.size();
                Integer infover = infoversion;
                RadiographicExam radiographic = Context.getService(DentalService.class).getRadiographic(id, infover);
                return radiographic;
        }

        @ModelAttribute("patientchecklist")
        protected PatientChecklist getChecklist(HttpServletRequest request) throws Exception {
                // get all patients that have an identifier "101" (from the demo sample data)
                // see http://resources.openmrs.org/doc/index.html?org/openmrs/api/PatientService.html for
                // a list of all PatientService methods
                //List<Patient> patients = Context.getPatientService().findPatients("123", false);
                // this object will be made available to the jsp page under the variable name
                // that is defined in the @ModuleAttribute tag
                //return patients;
                String pid = request.getParameter("patientId");
                Integer id = Integer.parseInt(pid);

        List<PatientChecklist> version = Context.getService(DentalService.class).getChecklistById(id);
                int infoversion = version.size();
                Integer infover = infoversion;
                PatientChecklist checklist = Context.getService(DentalService.class).getChecklist(id, infover);
                return checklist;
        }

        @ModelAttribute("consultations")
        protected ConsultationsReferrals getConsultations(HttpServletRequest request) throws Exception {
                // get all patients that have an identifier "101" (from the demo sample data)
                // see http://resources.openmrs.org/doc/index.html?org/openmrs/api/PatientService.html for
                // a list of all PatientService methods
                //List<Patient> patients = Context.getPatientService().findPatients("123", false);
                // this object will be made available to the jsp page under the variable name
                // that is defined in the @ModuleAttribute tag
                //return patients;
                String pid = request.getParameter("patientId");
                Integer id = Integer.parseInt(pid);

        List<ConsultationsReferrals> version = Context.getService(DentalService.class).getConsultationById(id);
                int infoversion = version.size();
                Integer infover = infoversion;

        ConsultationsReferrals consultation = Context.getService(DentalService.class).getConsultation(id, infover);
                return consultation;
        }

        @ModelAttribute("consultationslist")
        protected List<ConsultationsReferrals> getConsultlist(HttpServletRequest request) throws Exception {
```

```
                // get all patients that have an identifier "101" (from the demo sample data)
                // see http://resources.openmrs.org/doc/index.html?org/openmrs/api/PatientService.html for
                // a list of all PatientService methods
                //List<Patient> patients = Context.getPatientService().findPatients("123", false);
                // this object will be made available to the jsp page under the variable name
                // that is defined in the @ModuleAttribute tag
                //return patients;
                String pid = request.getParameter("patientId");
                Integer id = Integer.parseInt(pid);

        List<ConsultationsReferrals> consultlist = Context.getService(DentalService.class).getConsultationById(id);
                return consultlist;
        }
        @ModelAttribute("theServicesNeeded")
        protected ServicesNeeded getServicesNeeded(HttpServletRequest request) throws Exception {
                // get all patients that have an identifier "101" (from the demo sample data)
                // see http://resources.openmrs.org/doc/index.html?org/openmrs/api/PatientService.html for
                // a list of all PatientService methods
                //List<Patient> patients = Context.getPatientService().findPatients("123", false);
                // this object will be made available to the jsp page under the variable name
                // that is defined in the @ModuleAttribute tag
                //return patients;
                String pid = request.getParameter("patientId");
                Integer id = Integer.parseInt(pid);

        List<ServicesNeeded> version = Context.getService(DentalService.class).getServicesById(id);
                int infoversion = version.size();
                Integer infover = infoversion;
                ServicesNeeded services = Context.getService(DentalService.class).getServices(id, infover);

                return services;
        }

}
```

XII. ACKNOWLEDGEMENT

WOW! This is it. I am now writing my SP's acknowledgement page. I can't believe it. Haha but I am still cramming. Arghhh. Anyway, let me start by thanking the **Almighty Father** for giving me the strength to finish all these.

Of course, I'd like to thank my **family** – **Mommy, Shobe, Lola, Tita Baby, Tita Leila,** and (sige na ngaaa) **Daddy**. Hehe I wouldn't be able to make it this far without you. (Wait lang, magtatagalog nako! Haha) Hindi man ako ganun ako expressive, alam nyo namang super thankful ako to have you guys. I love you. Thank you mommy for lending me your laptop! ☺

Thank you to the BEST adviser ever, **Sir Richard Bryann Chua**. Thank you for everything. Kahit na lagi niyo akong inaaway. HEHEHE sobrang sulit po yung pinang-enroll ko sa SP dahil sa inyo at sobrang dami kong natutunan. Maraming salamat po. ☺ Cheers sa lahat na Chua babies! ***Carmel, Kuya GJ, Kee, Aids, Ate Chelcy***

Dean Vicente Medina III, Dr. Charlie Atienza, UP College of Dentistry – thank you for my SP topic! ☺

CS07: **Jam, Rizza, Oshin, BONA (hehe), Kee, Judy, Carmel, Arvi, Yuyun, Mon, Ryan, Jlo, Chard, Maq, Quindoy, Jama, Alvin, Dawi, Pash, Josha, Ruth, Nikko, Eunice, Fer, Margie, Faye, Jenn, Raiza, Tintin, Kristin, Dan, Aids, Gem, Joemar, Mauro, Ejae**. Omaygad! May mga nakalimutan pa ko. Pero nagmamadali nako. Haha sorry sa mga di ko nabanggit. Sobrang thank you sa 4 years nating magkakasama. May kanya kanya man tayong grupo at minsan di tayo nagkakasundo, masaya ako na blockmates ko kayo. ☺ Special mention to **Jam, Rizza** (and Oshin). Mean girls! Thank you sa mga tambay and gala days natin. Thank you for being one of my closest friends. Thank you rin sa **GS** sa pag-ampon. **Jenzen, Sieg, Sam, O, AJ, Ronmar, Yanyan, Leo.** ☺

BACLUB – my high school barkada – **Jihad, Dana, Ace, Reg, Melai, Meme, Lars, Cherry, Anna, Makoy, Kan, Francis, Nat, Kristian**. Wala lang, gusto ko lang kayong i-mention. Hehe maraming salamat. ☺ PS: Thank you best, **Jihad**, for changing my facebook password and deactivating my account during the time I was making my SP. iwhipmyhair123!

Save the best for last daw, so I want to say thank you to **James Clarence Manalo** for always being there for me. Thank you for motivating me. Pinapagalitan mo pa 'ko kapag di ako nakakapagconcentrate sa SP ko. Thank you for being patient. And thank you sa last minute pag bili ng pizza and envelope for my defense. I love you! Wag mo ko apihin kung wrong grammar. Hindi ko na 'to ipoproof read. Haha! Salamat din sa mga brods mo. Hello **Nim, Bauza, Ramon**.. sa inyong lahat! Thank you! ☺

Thank you sa lahat ng naging part ng college life ko. To all my **professors**, thank you po sa inyo. It was a fun, fun, fun experience! ☺ Feeling ko marami pakong nakalimutan. Dami ko friends! Hahaha sorry. Nagmamadali nako. Hehehe pero super thank you to you, whoever you are, reading this. Finally, gagraduate nako ng college. Lovelove! ☺