



# Faculty FeedBack System

## Software Requirements Specification

Version - 0.1  
28<sup>th</sup> Nov 2015

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Prepared for  
Minor Project 7CS6  
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## **ABSTRACT**

The main aim and objective was to plan and program web application for any domain. We have to apply the best software engineering practice for web application. As a web application developer I was asked to developed an “Faculty Feedback System” using PHP and MySQL.

“Faculty Feedback System” This system is generally used by four kinds of users Student, Faculty, Head of departments, Admin. The application should evaluate the answers given by the students based on the feedback (which will be given by a no. 1 – 5) and grade has to be generated to all the staff members of a particular department. These feedback report was checked by the hods. He can view overall grades and view the grades obtained to the lecturers and give this report to the principal and he can give counseling to the college staff.

“By using this online system we make it better and quick way.”

## Revision History

Date	Description	Author	Comments
28 <sup>th</sup> Nov 2015	<Version 0.1>	Raushan Kr. Chaurasiya Yash Raj Sharma	

## Document Approval

The following Software Requirements Specification has been accepted and approved by the following:

Signature	Printed Name	Title	Date
	Raushan Kr. Chaurasiya	Database Handler	
	Yash Raj Sharma	Frotend Designer	
	Linesh Raja Sir	Instructor	

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THE PROJECT “FACULTY FEEDBACK SYSTEM” IS DESIGNED IN ORDER REDUCE THE BURDEN OF MAINTAINING BULK OF RECORDS OF ALL THE STUDENTS FEEDBACK DETAILS OF WHO STUDY IN AN EDUCATIONAL INSTITUTION. INSERTING, RETRIEVING AND UPDATING THE FEEDBACK DETAILS OF A STUDENT ARE EASY WHEN IT IS COMPARED TO THE MANUAL FEEDBACK AND STORING. MAINTAINING THE PROJECT IS ALSO EASY WHICH CAN IS EASILY UNDERSTANDABLE. MAINTAINING THE DETAILS IN THE DATABASE IS MANAGEABLE.....	
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## 1. Introduction

We have developed Faculty Feedback System to provide feedback in an easy and quick manner to the college HOD. So we call it as Faculty Feedback System which delivers via student staff interface as online system which acting as Service Provider.

By using this technology we can provide fast feedback about the college lecturers by student on time to the head of department s as they referred in online system.

This project has four kinds of module student, staff, HOD and admin. The student can give feedback to their respective lecturers. This feedback report is checked by their Head of Department. He can view grade obtained by the lecturers and give this report to the principal for further counseling to the college staff.

### 1.1 Aim

Aim is to provide fast and quick online feedback about the college lecturers and hod by the student on time at anywhere from anyplace by just login from their valid account.

## 1.2 Objective

The main objective was to create a unique and useful “Faculty feedback system” with exceptional quality and service that differentiates it from other feedback system.

## 1.3 Scope

The scope of Faculty Feedback portal is as follows:

- The Faculty Feedback portal provides an easier and quicker way to give rating to the colleges staffs.
- Student can rate their faculty members according to their teaching style, knowledge, discipline and punctuality at any time from any place.
- Through this site data of faculty members and student were managed in quite a simple manner.

## 1.4 Existing System:

Coming to the existing system the feedback is done by manual process. In the existing system students can give feedback about the lecturers by using paper and pen. After giving feedback by every student Papers are collected by the Hod's and calculate the overall grade for each each lecturer. After that those all grade report is viewed by the principal which is given by the Hod's. Hence estimating the performance of lecturers and giving counseling to college staff. So, the existing system is carries more time to do a piece of work for this reason. The online system feedback is implemented. This is the major advantage of the existing system for giving feedback about the Lecturers and viewing report of lecturers.

## 1.5 Proposed System:

Here we aimed to design online web application for issuing the feedback about the lecturers by students, this is named as Faculty feedback system. Faculty feedback System to provide feedback in a easy and quick manner to the college lecturers and Hod's. So we call it as Faculty Feedback System which delivers via the student staff interface as online system which acting as a Service Provider by using this technology we can make fast feedback about the staff by students on time to head of departments as they referred in online system.

This project has four kinds of users Student, Staff, Hod's, and Admin. The student can give feedback in online system provided by college staff. Students and can give feedback about the lecturers.

These feedback reports were checked by the Hod's. He can view overall grades and view the grades obtained to the lecturers and give this report to the principal and he can give counseling to the college staffs compared to the manual system, online system is very simple to use and also understand.

## 2. Project Analysis:

## 2.1 Project Description:

This system included four modulus which were described below in details:

- Admin module
- Student module
- Faculty module
- HOD module

The core functionalities that are to be included in the system are the follows:-

### ADMIN MODULE

- Can insert/update/delete/new student (But, not Feedback).
- Can insert/update/delete/new staff member.
- View the final feedback report

### STUDENT MODULE

- Give feedback to their respective department staff members.
- Can give comments/Message to the respective staff members

### FACULTY MODULE

- Can view their only own comments/message and Rating Criteria given by students.
- Can view total evaluated feedback.

### HOD MODULE

- Can view result their respective department.
- Can give Suggestion to Staff member or student according to the particular comments.
- Submit feedback result to the Principal.

## 2.2 Key Notes

### INTRODUCTION TO PHP:

The PHP programming language is a server-side HTML embedded scripting language. The PHP language runs on the server-side. This means that the execution of the scripts are done on the server where the web-site is hosted. HTML embedded means that you can use PHP statements (read a piece of PHP code) from within an HTML code. PHP files are returned to the browser as plain HTML.

The last piece of the sentence – scripting language – is a little harder to explain, but we will give

it a go. A scripting language is a form of programming language that is usually interpreted rather than compiled. In **programming language such as c/c++** you compile the program into an executable file, before you can execute the program. A program that is written in a scripting language, is interpreted one command at a time by a command interpreter (Command interpreter is in most cases an executable written in another language (for instance C/C++) than the scripting language.) Some other examples of scripting languages are Perl, Python, Java and Ruby.

What is PHP?

- PHP stands for PHP: Hypertext Preprocessor.
- As we said before it is a server-side scripting language.
- PHP is free and is an open source software product.
- The PHP scripts are executed on the server.
- PHP supports many databases (MySQL, Sybase, Oracle and many others.)
- PHP runs on different platforms (Unix, Linux, Windows.)
- PHP is compatible with almost all web-servers used today (Apache, IIS, etc.)
- A PHP file can contain plain text, HTML tags and scripts
- The PHP files can have one of the following extensions: php, php3 or phtml.

## 2.3 Requirement Specification:

To run this project on various platform we need some hardware and software to support this project.

### 2.3.1 HARDWARE SPECIFICATION

Processor: Dual core

RAM: 512 mb

Memory: 10 GB

### 2.3.2 SOFTWARE SPECIFICATION

Technologies: HTML, CSS

Database: MySql

Language: PHP

IDE: Dreamviewer, Notepad++

## 2.4 System Constraints

### 2.4.1 User Interface Constraints

Using this portal is fairly simple and intuitive. A user familiar with basic browser navigation skills should be able to understand all functionality provided by the portal.

### 2.4.2 Hardware Constraints



The portal should work on most home desktop and laptop computers.

#### **2.4.3 Software Constraints**

The portal is designed to run on Google Chrome, Mozilla Firefox and Internet Explorer 10.

#### **2.4.4 Data Management Constraints**

Portal shall be able to interface with other components according to their specifications.

#### **2.4.5 Design Standards Compliance**

The portal shall be implemented in PHP

### **3. Project Design:**

Software design is an interactive process through which requirements are translated into a 'Blue Print' for constructing the software. The design is represented at high level of abstraction, a level that can be directly translated to specific data, functional and behavioral requirements. Preliminary design is concerned with the transformation of requirements into data and software architecture. Detailed design focuses on refinements to the architectural representation that lead to detailed data structure and algorithmic representation for software.

#### **3.1 Introduction to UML:**

UML is a standard language for specifying, visualizing, constructing, and documenting the artifacts of software systems.

UML was created by Object Management Group (OMG) and UML 1.0 specification draft was

proposed to the OMG in January 1997.

OMG is continuously putting effort to make a truly industry standard.

- UML stands for Unified Modeling Language.
- UML is different from the other common programming languages like C++, Java, COBOL etc.
- UML is a pictorial language used to make software blue prints.

So UML can be described as a general purpose visual modeling language to visualize, specify, construct and document software system. Although UML is generally used to model software systems but it is not limited within this boundary. It is also used to model non software systems as well like process flow in a manufacturing unit etc.

UML is not a programming language but tools can be used to generate code in various languages using UML diagrams. UML has a direct relation with object oriented analysis and design. After some standardization UML is become an OMG (Object Management Group) standard.

### 3.2 UML DIAGRAMS:

There are two main types of UML modeling:

#### 3.2.1 STRUCTURAL MODELLING:

Structural modeling captures the static features of a system. They consist of the followings:

- Classes diagrams
- Objects diagrams
- Deployment diagrams
- Package diagrams
- Composite structure diagram
- Component diagram

Structural model represents the framework for the system and this framework is the place where all other components exist.

### 3.2.2 BEHAVIORAL MODELLING:

Behavioral model describes the interaction in the system. It represents the interaction among the structural diagrams. Behavioral modeling shows the dynamic nature of the system. They consist of the following:

- Activity diagrams
- Interaction diagrams
- Use case diagrams

All the above show the dynamic sequence of flow in a system.

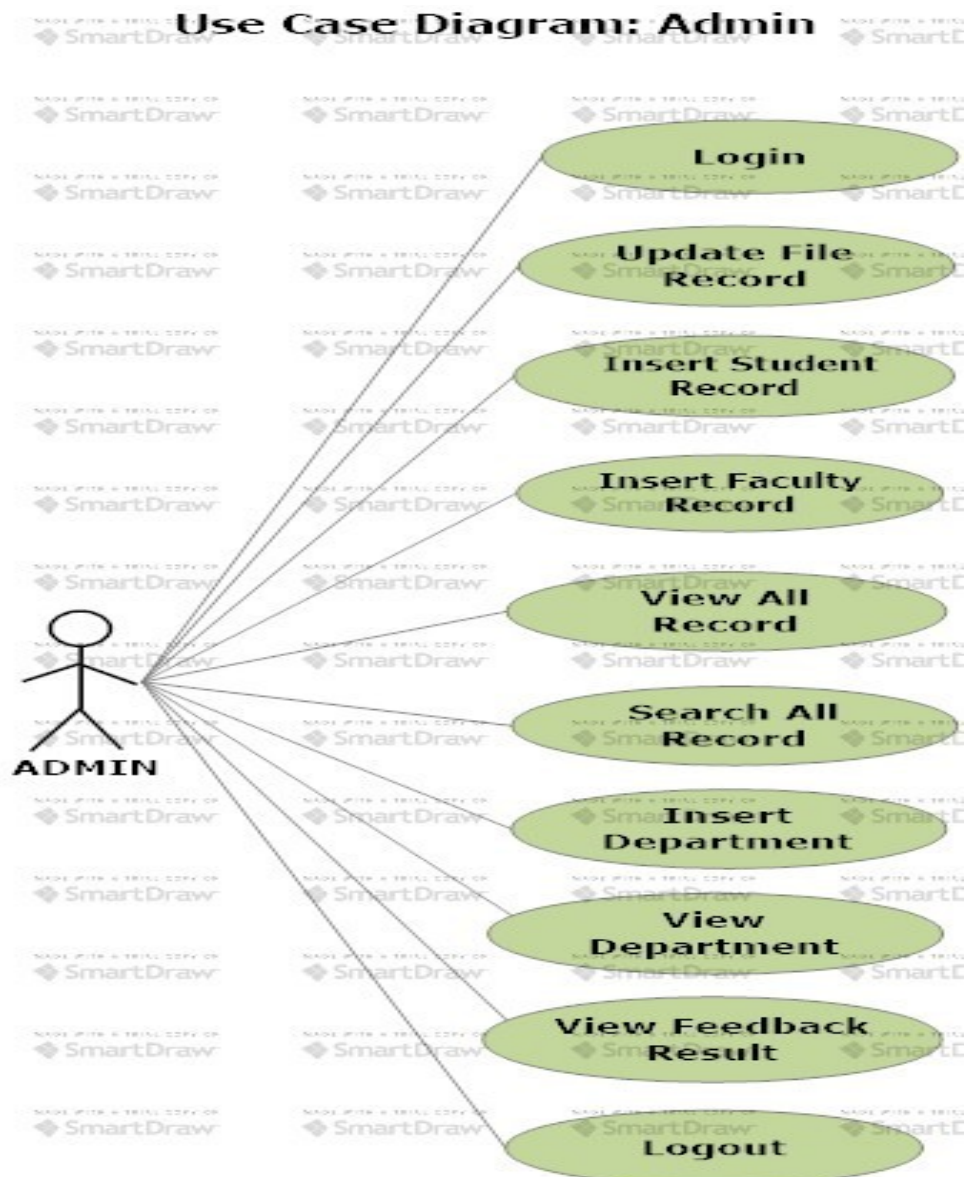
## **4. Project Diagrams:**

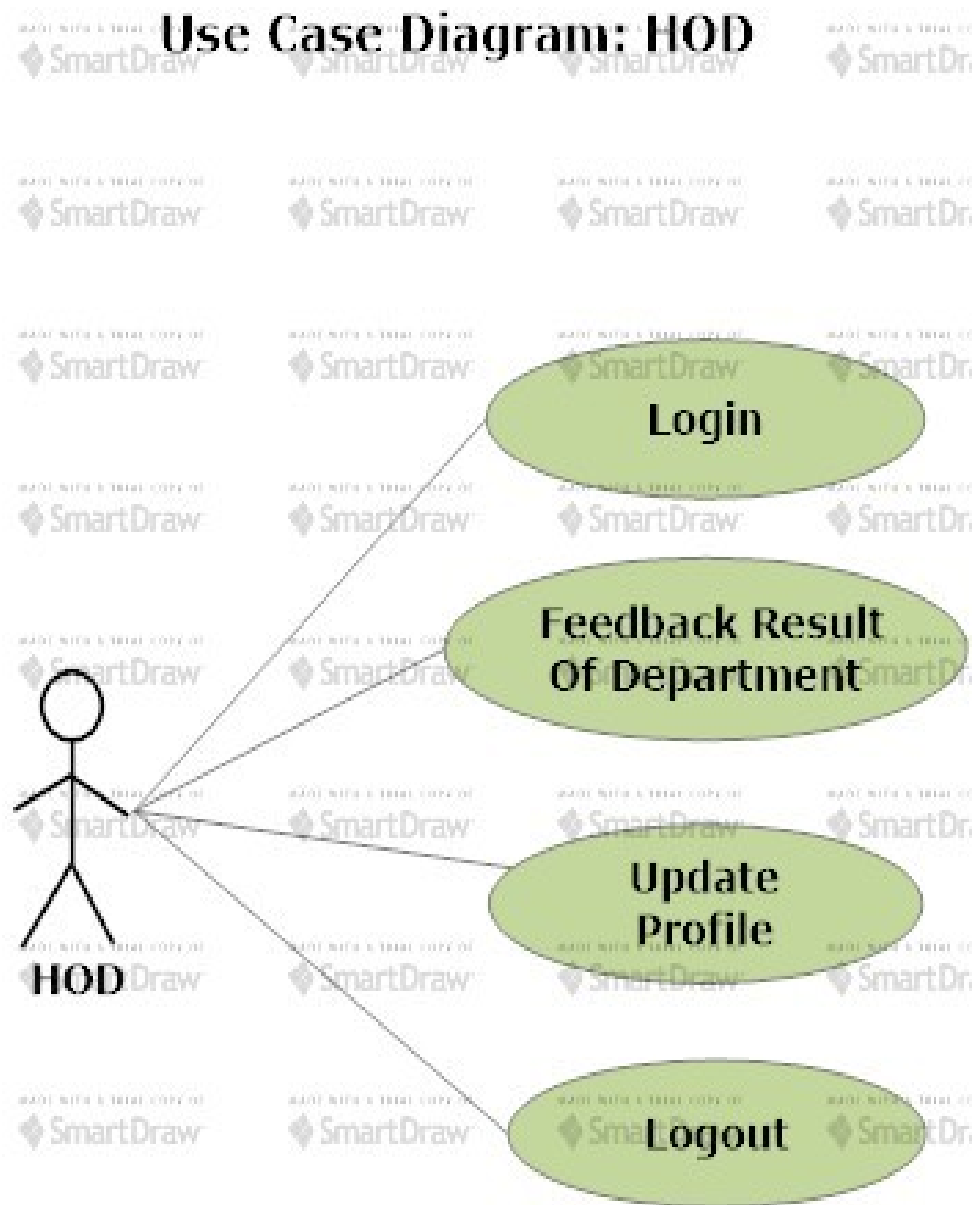
This project deals with the various software diagrams. These diagrams are as follows:

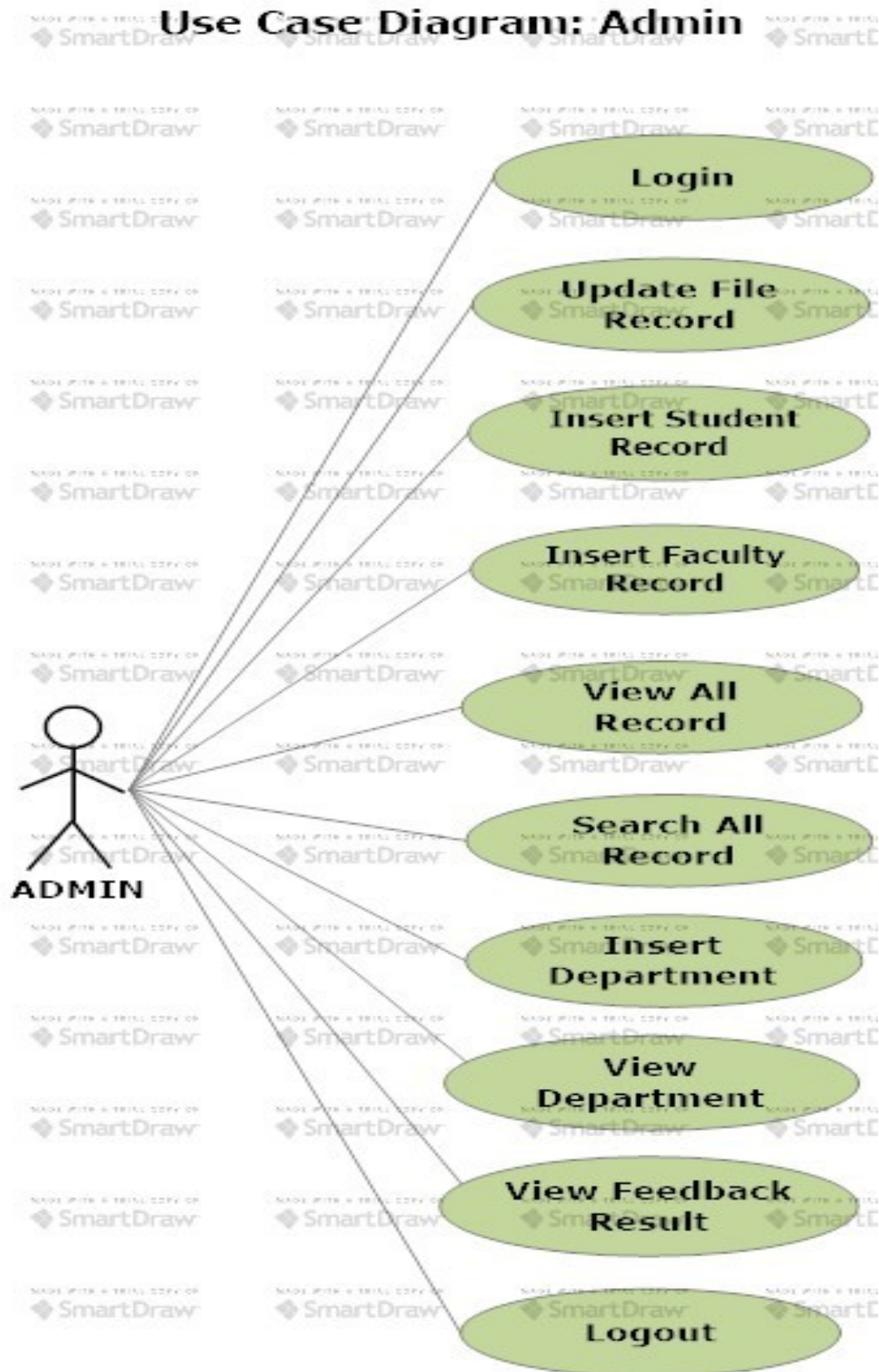
1. Use Case Diagram
2. Activity Diagram
3. E-R Diagram
4. DFD
5. Sequence Diagram
6. Class Diagram

### **4.1 Use Case Diagram:**

Use case diagram consists of use cases and actors and shows the Interaction between the use cases and actors. Use cases are the function that are to be performed in the module. An actor could be the end user of the system or the external system.

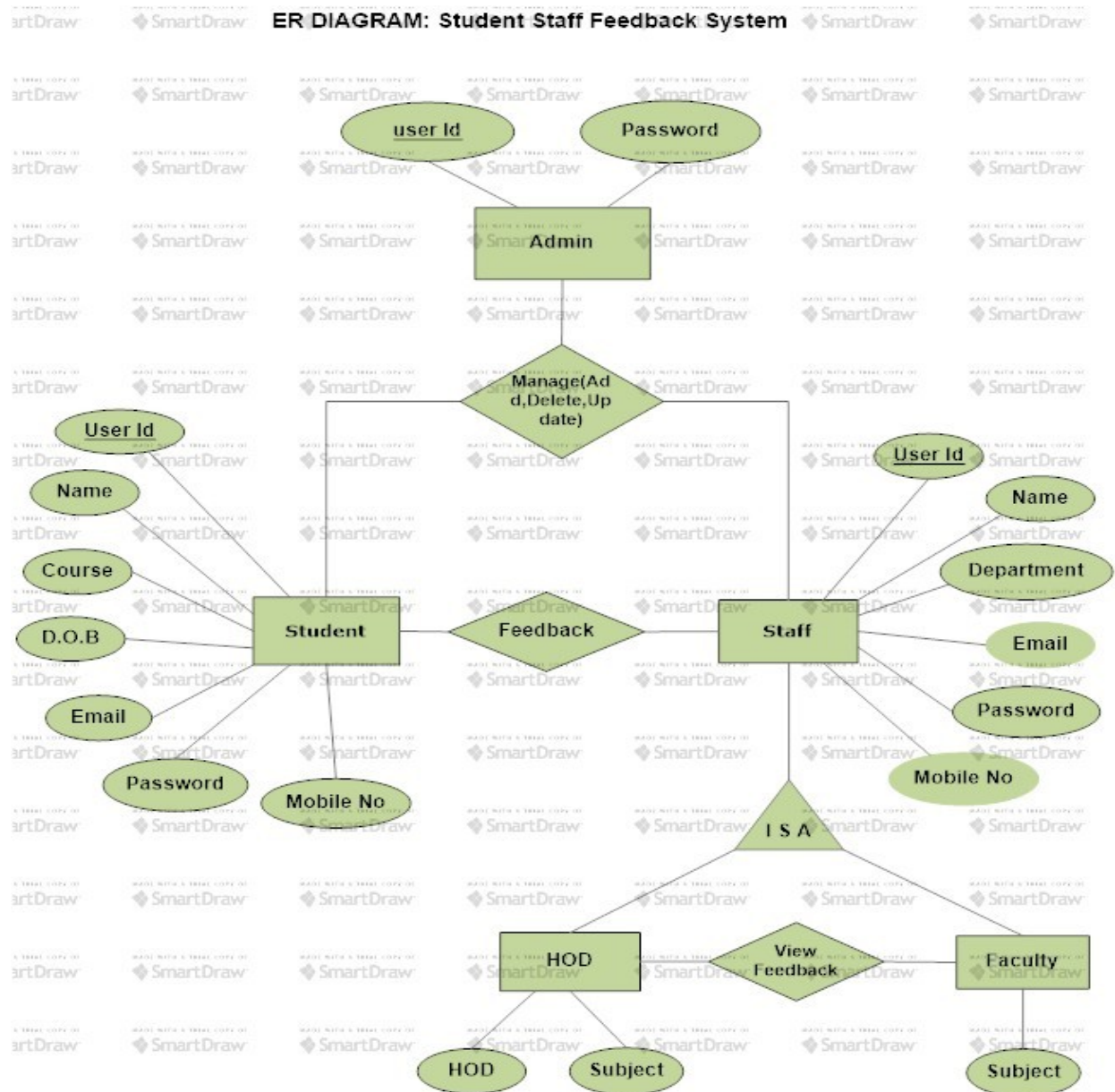






## 4.2 E-R Diagram

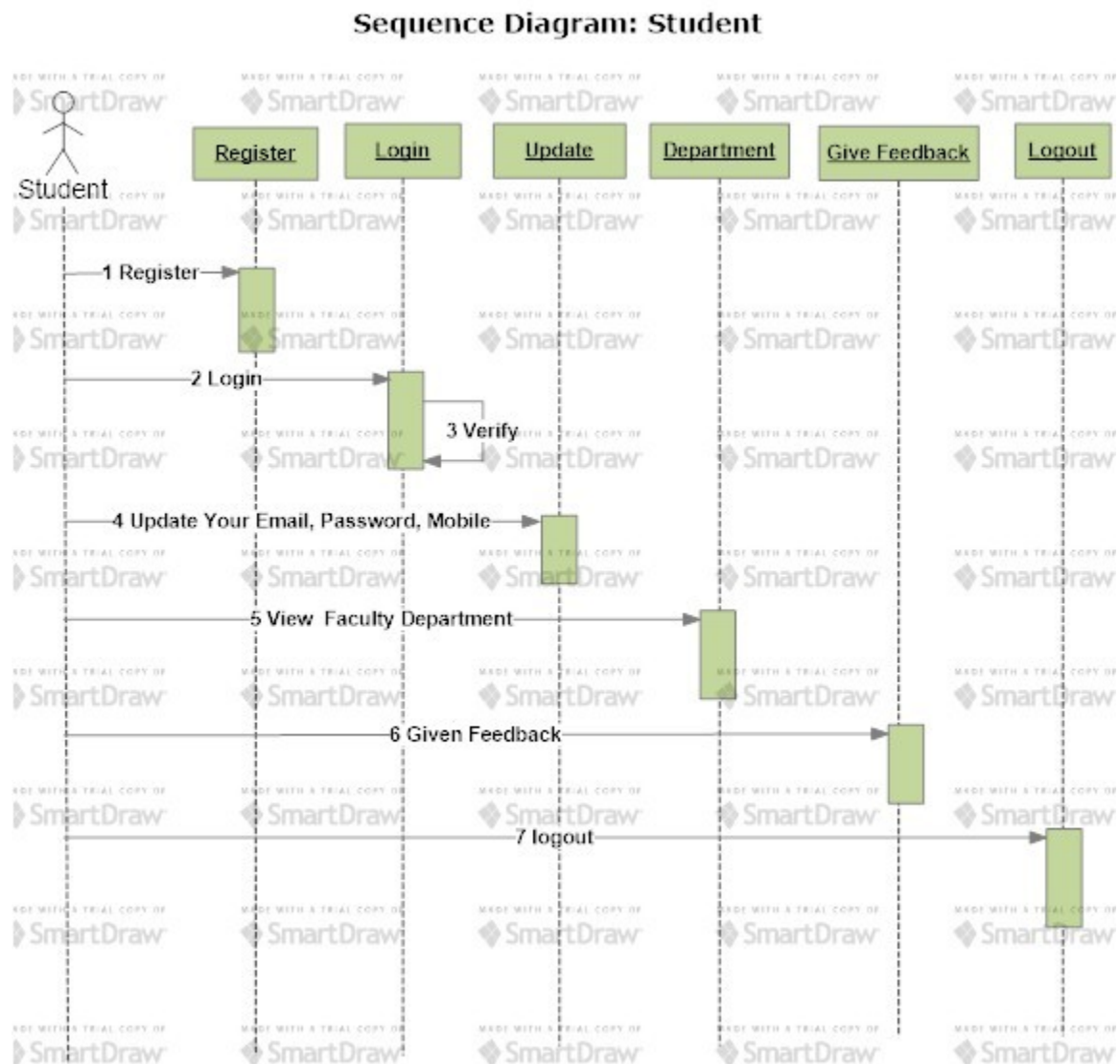
An entity-relationship diagram (ERD) is a data modeling technique that graphically illustrates an information system's entities and the relationships between those entities. An ERD is a conceptual and representational model of data used to represent the entity framework infrastructure.





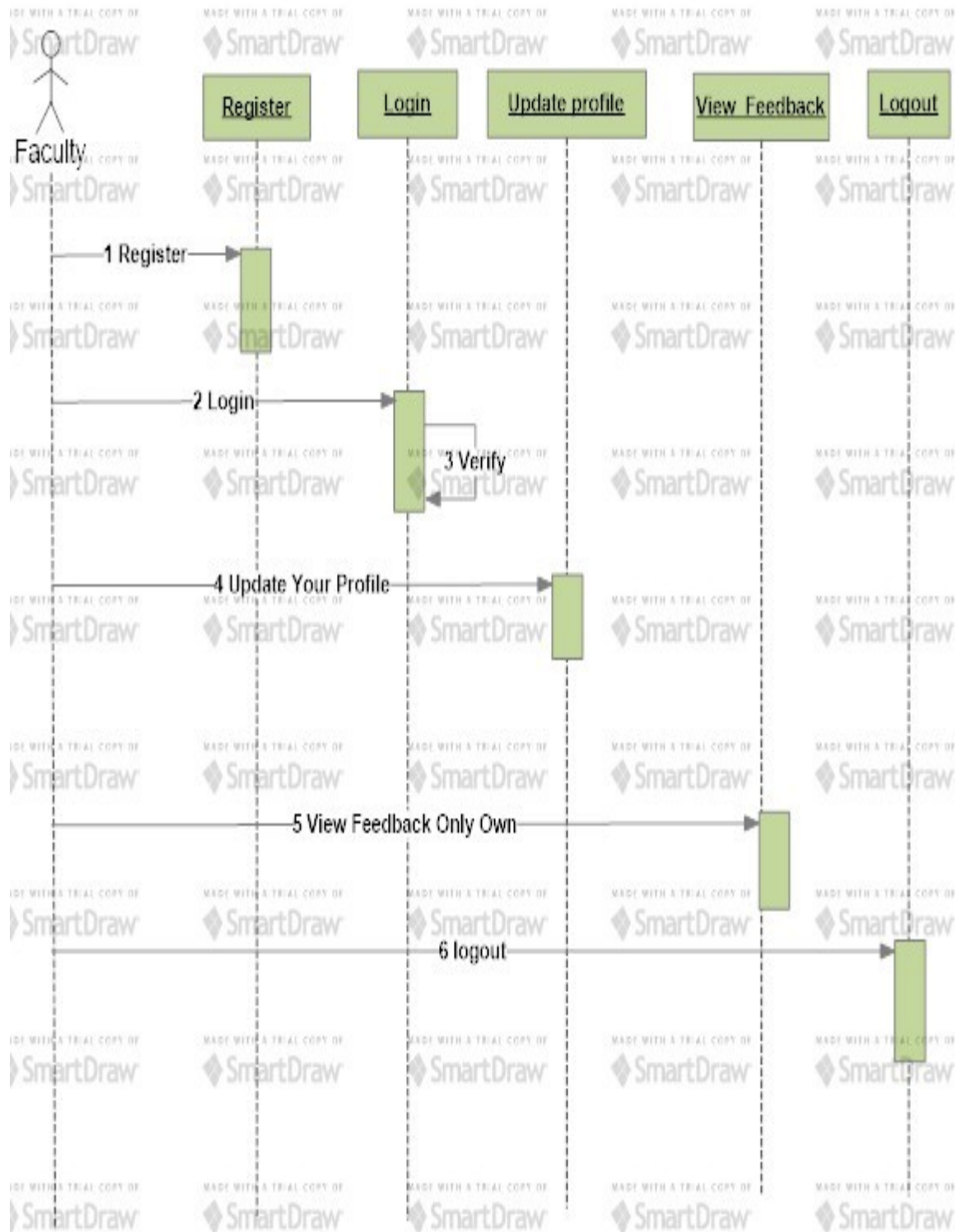
### 4.3 Sequence diagram

UML sequence diagrams are used to show how objects interact in a given situation. An important characteristic of a sequence diagram is that time passes from top to bottom, the interaction starts near the top of the diagram and ends at the bottom. A popular use for them is to document the dynamics in an object-oriented system.

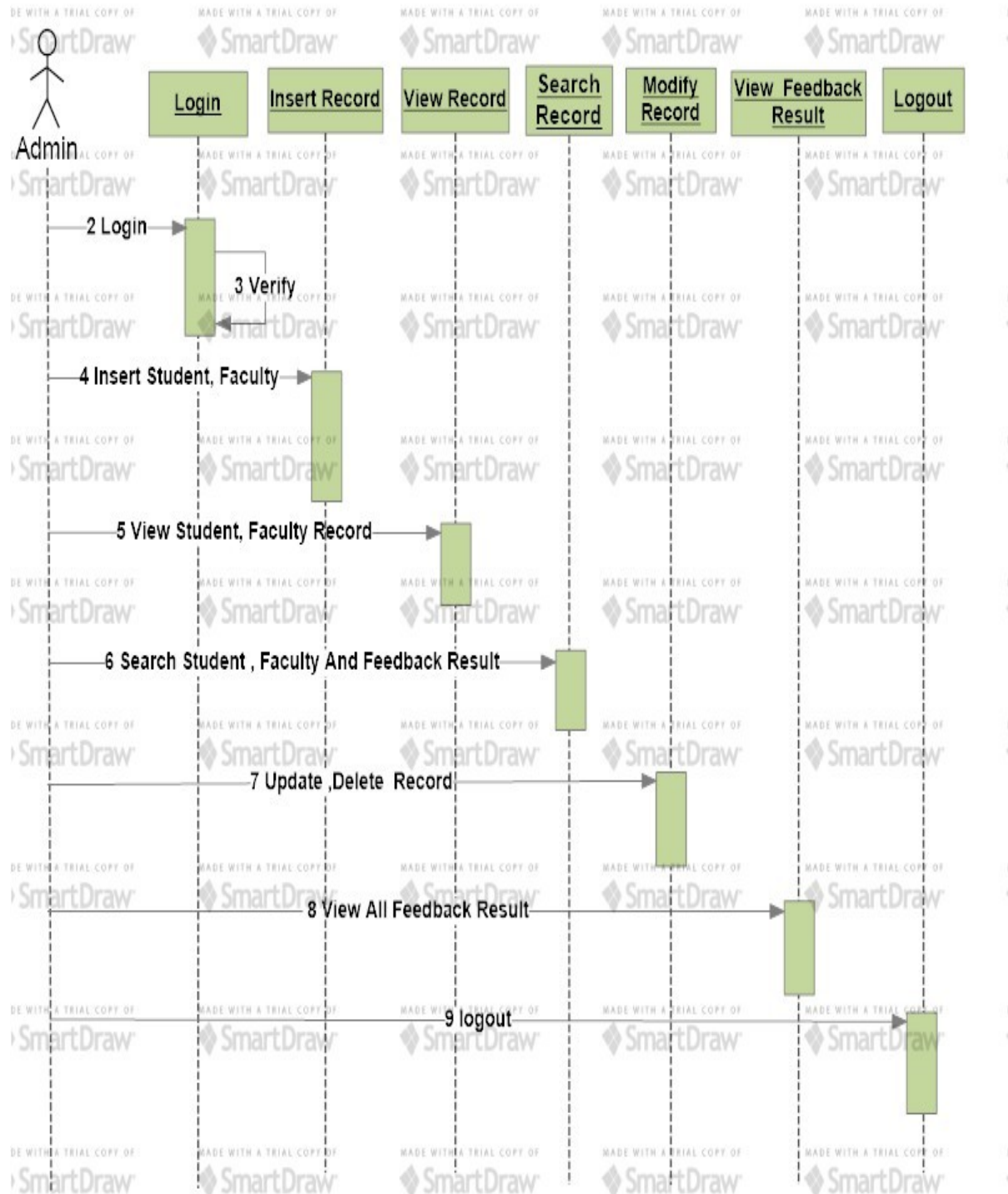




## Sequence Diagram: Faculty

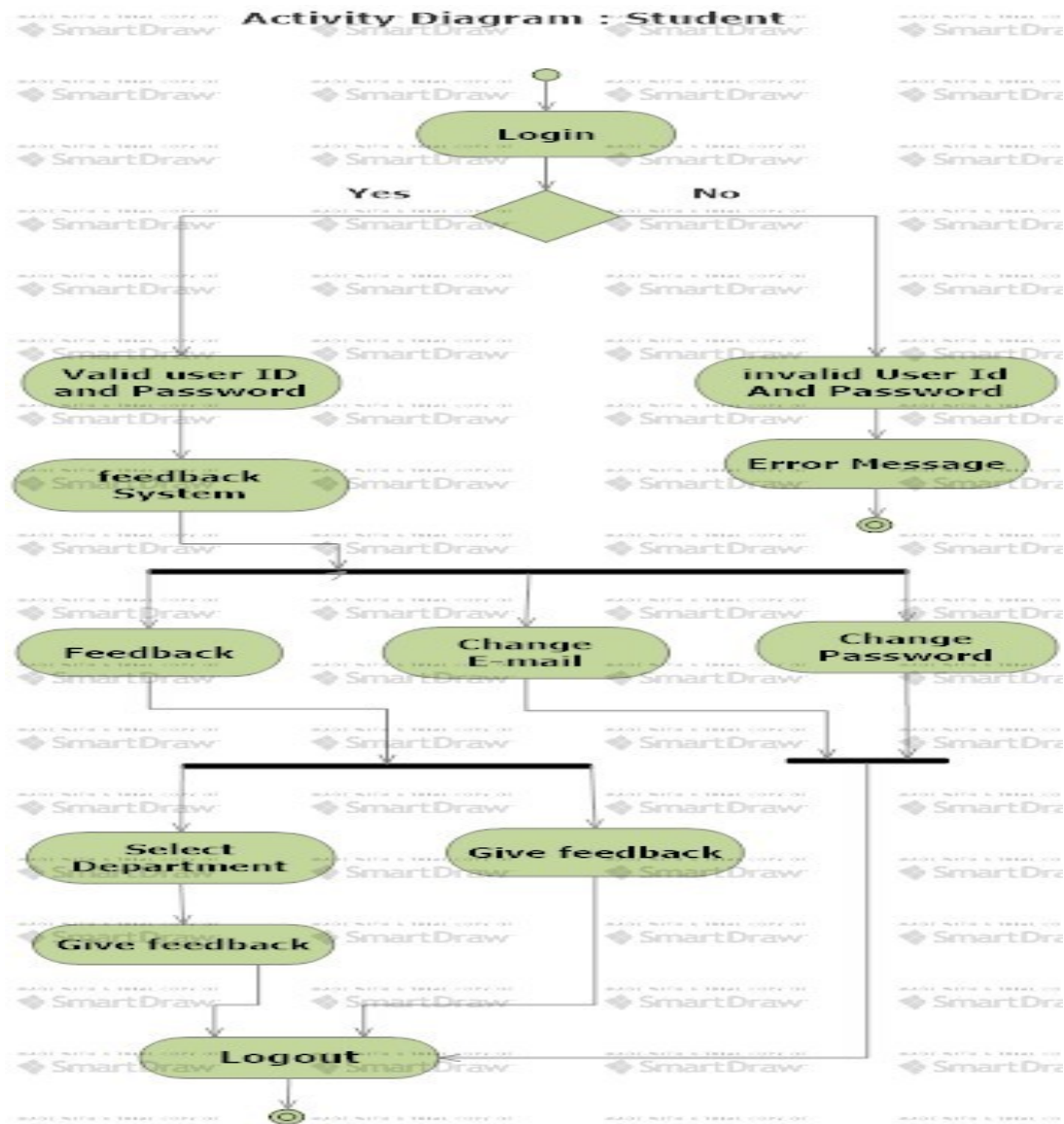


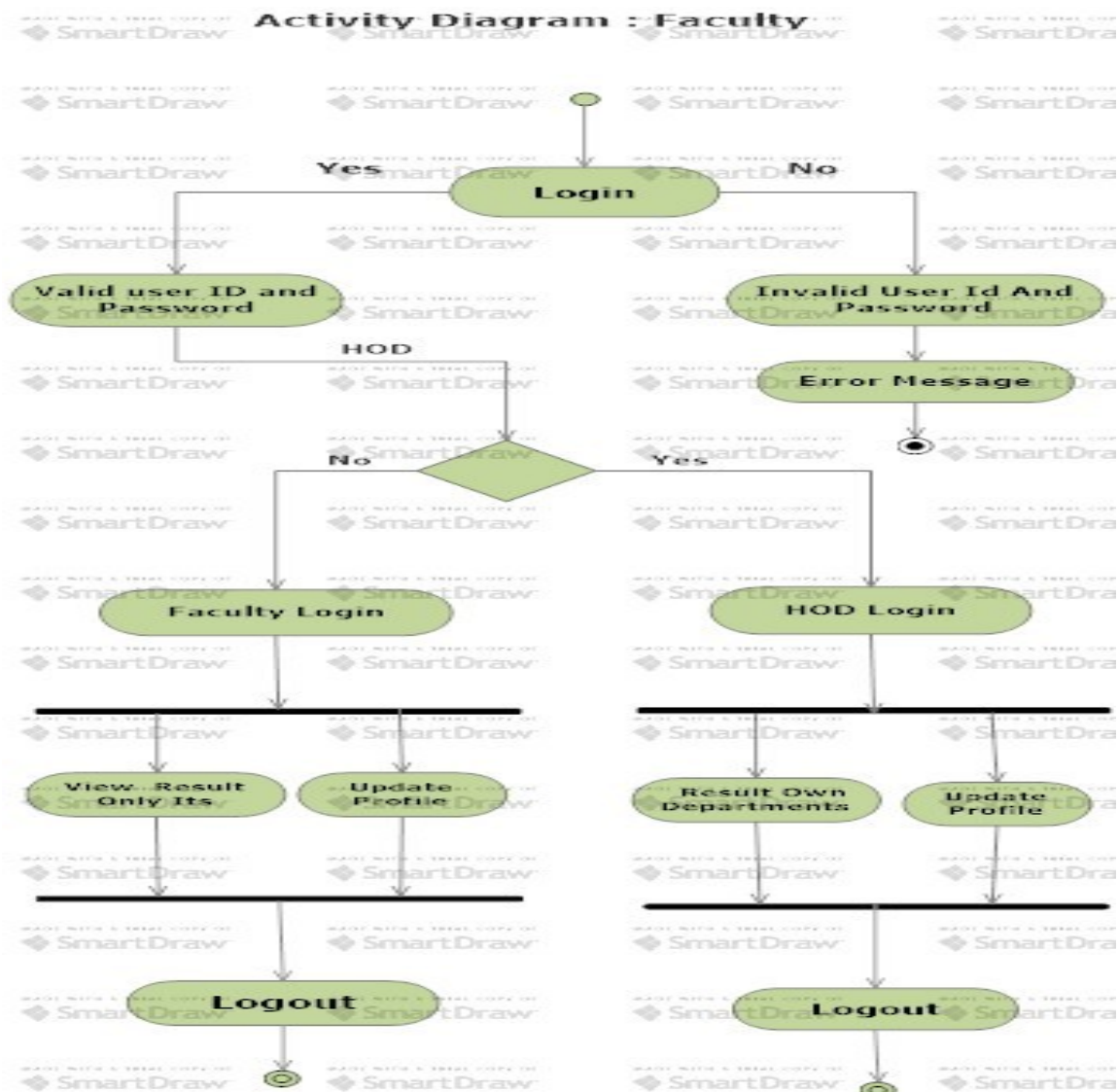
## Sequence Diagram: Admin



#### 4.4 Activity diagram

Activity diagram is another important diagram in UML to describe dynamic aspects of the system. Activity diagram is basically a flow chart to represent the flow from one activity to another activity. The activity can be described as an operation of the system. So the control flow is drawn from one operation to another. This flow can be sequential, branched or concurrent.



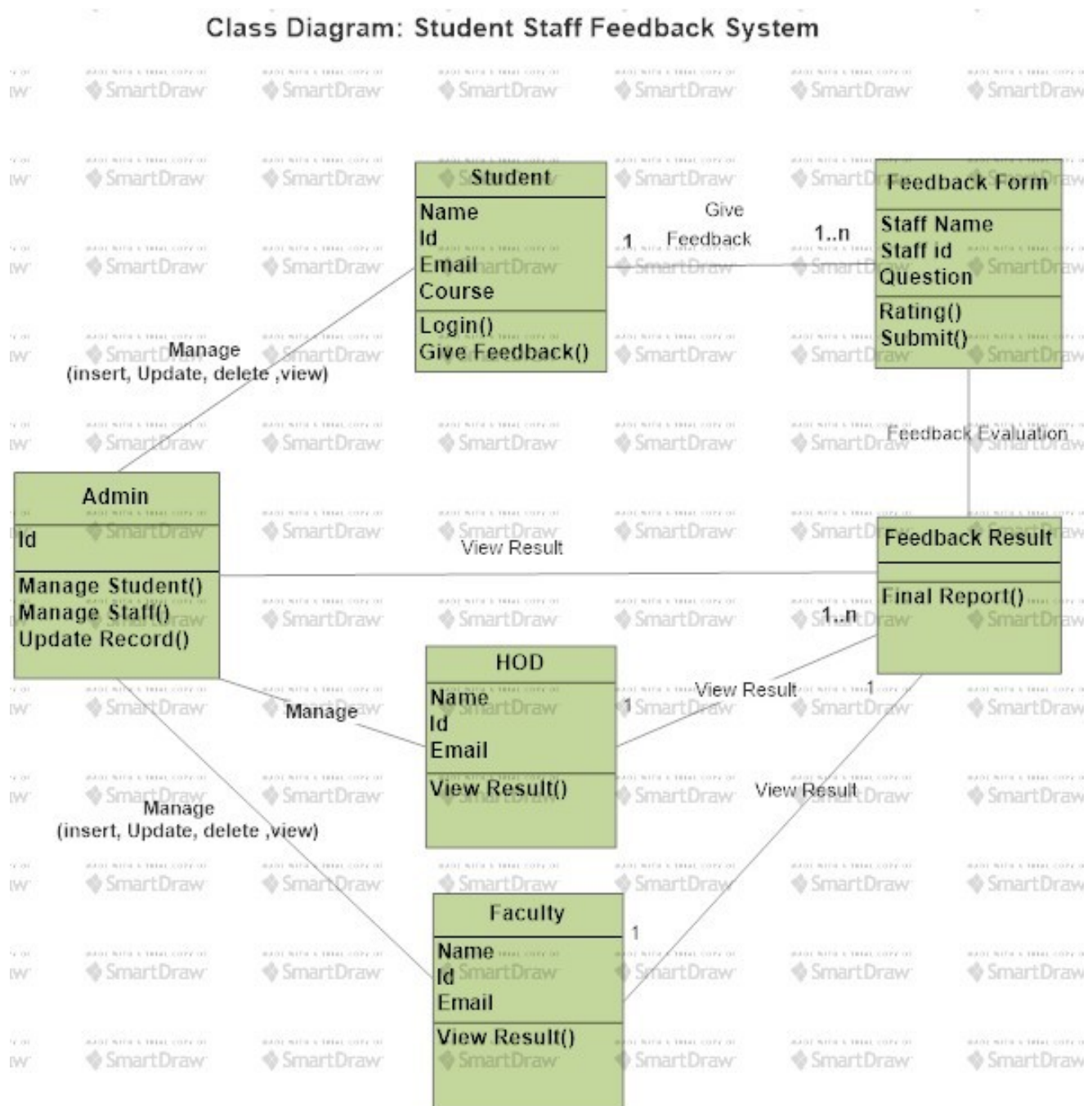


## 4.5 Class Diagram

The class diagram is a static diagram. It represents the static view of an application. Class diagram is not only used for visualizing, describing and documenting different aspects of a system but also for constructing executable code of the software application.

The class diagrams are widely used in the modelling of object oriented systems


because they are the only UML diagrams which can be mapped directly with object oriented languages.



#### 4 SNAPSHOTS:



## HOMEPAGE




# RateUrFaculty.com


For Faculty Evaluation

[login/Registration](#)

[Home](#) [About us](#) [Faculty List](#) [Feedback Now](#) [Contact us](#) [Feedback Result](#)



### Welcome to our website



The Project entitled as "Student Staff Feedback System" is used to provide feedback in an easy and quick manner to the college principal and Hod's. So we call it as Student Staff Feedback System which delivers via the student staff interfaces online system which acting as a Service Provider. By using this technology we can make fast feedback about the staff by students on time to head of departments as they referred in online system. [Read More](#)

#### Student

[Log In](#)[Register](#)

#### Faculty

[Log In](#)[Register](#)

#### Latest News


Online Student Staff Feedback process  
Start on 1 - 15 May 2015

Online Student Staff Feedback process  
Start on 1 - 15 May 2015

Online Student Staff Feedback process  
Start on 1 - 15 May 2015

#### Current Events

#### Our Location



XYZ Road , XYZ ,  
Madhya Pradesh-12345 ,INDIA  
91-731-XXXXXXX  
XXXXXX YYYYYY (t)  
00-11-345678 (f)

## STUDENT REGISTRATION

## Faculty Feedback System

The screenshot displays a web browser window with two tabs: 'Online Voting' and 'admin Panel'. The address bar shows 'localhost/voting/student\_register.php'. The website header features the 'RateUrFaculty.com' logo, a 'Feedback' link, and a 'login/Registration' link. A navigation menu includes 'Home', 'About us', 'Faculty', 'Feedback Now', 'Contact us', and 'Feedback Result'. A large image of a school building is shown, with a 'Welcome Student: Login' button below it. The main content area contains a 'Create an Student Account' form with the following fields: 'Student Full Name' (with a hint 'Enter Name Capital Alphabets'), 'Student\_id' (with a hint 'Capital Alphabets(String)'), 'Date of Birth' (with a hint 'mm/dd/yyyy'), 'Email' (with a hint 'Enter Valid Email'), 'Password' (with a hint '8 or more characters'), 'Gender' (a dropdown menu), and 'Mobile No.' (with a hint 'Starting Number (7,8,9)'). A 'Create Account' button is at the bottom of the form. The footer includes 'All Rights Reserved © 2015' and a Windows activation watermark.

Online Voting x admin Panel x

localhost/voting/student\_register.php

RateUrFaculty.com  
For Faculty Evaluation  
Feedback  
login/Registration

Home About us Faculty Feedback Now Contact us Feedback Result

Welcome Student: Login

Create an Student Account

Student Full Name \*  (Enter Name Capital Alphabets)

Student\_id \*  (Capital Alphabets(String))

Date of Birth \*  mm/dd/yyyy

Email \*  Enter Valid Email

Password \*  8 or more characters

Gender:

Mobile No. \*  Starting Number (7,8,9)

Create Account

All Rights Reserved © 2015

Activate Windows  
Go to PC settings to activate Windows.

9:01 AM  
4/26/2015

## FACULTY REGISTRATION

## Faculty Feedback System

Online Voting x admin Panel x

localhost/voting/faculty\_register.php

Welcome Faculty: [Login](#)

### Create an Faculty Account

Faculty Name:

Faculty\_id:

Head of Department: ☐ YES ☐ NO

Department:

Email:

Password:

Gender:

Mobile No:

[Create Account](#)

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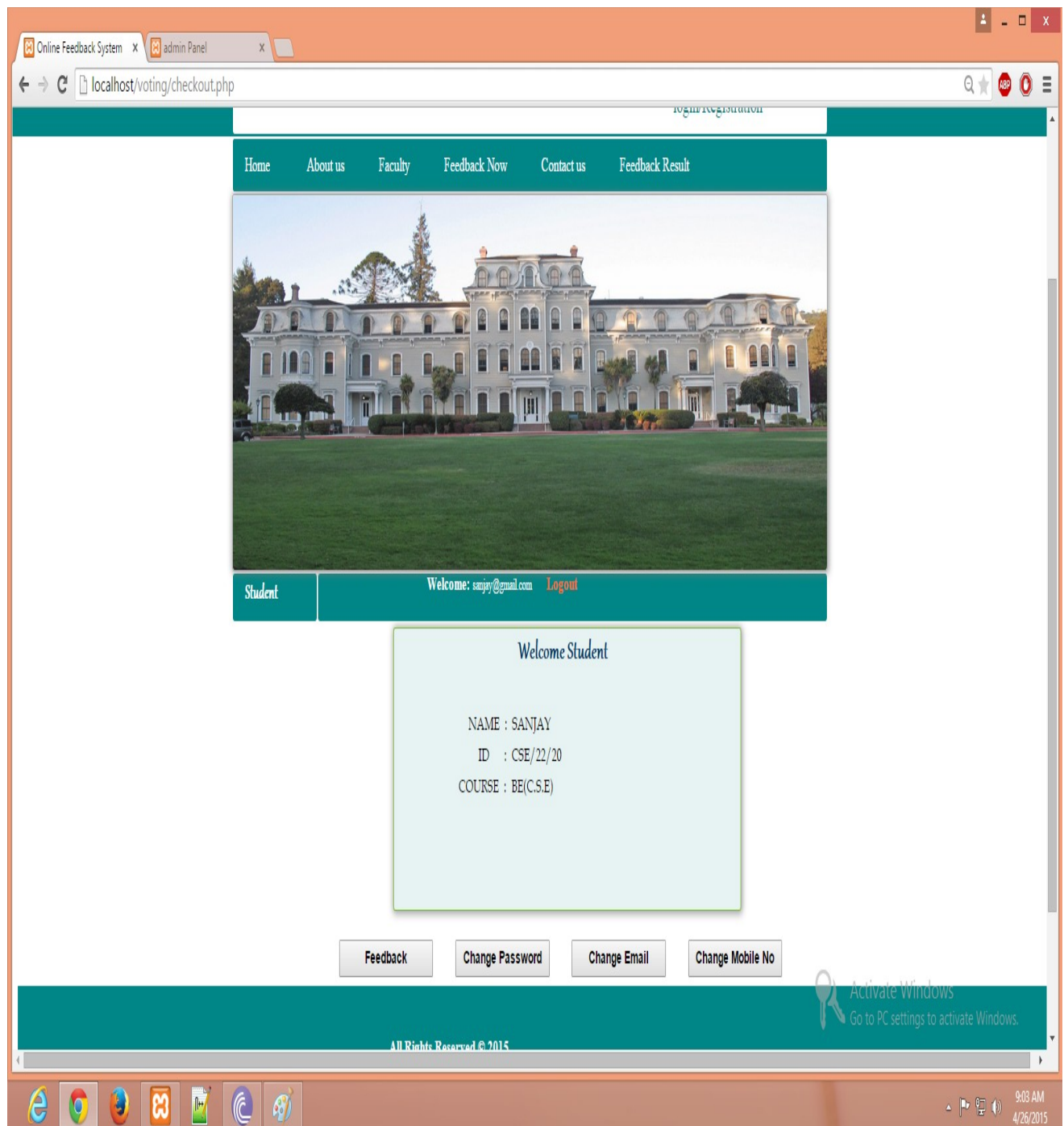
Activate Windows  
Go to PC settings to activate Windows.

9:08 AM  
4/26/2015

## STUDENT PANNEL



## Faculty Feedback System



## FEEDBACK FORM


## Faculty Feedback System

Online Feedback System x admin Panel x

localhost/voting/checkout.php?faculty\_record=FC/0005/12

### Faculty Feedback Form

Faculty Name : Ms. NEETU KUMAR  
Department : ANIMATION

Image :   
Email Id : saan@gsd.com

—————Please Choose Rating The following CRITERIA—————

*Kindly provide your assessment on the five parameters in respect of the following parameters.*

Outstanding = 5 | Very Good = 4 | Good = 3 | Satisfactory = 2 | Un satisfactory = 1

*Please indicate your evaluation on each parameter by putting in the appropriate number in the column opposite the parameter.*

Date & Time : 2015-04-26 09:04:27am

Attitude :  (Skip to 0)

Knowledge of Faculty :  (Skip to 0)

Communication Skill :  (Skip to 0)

Behaviour :  (Skip to 0)

Teaching Aids :  (Skip to 0)

Presentation Skill :  (Skip to 0)

Total :

Message :

—————General assessment taking all the above parameter:—————

\*\*\* Total Rating \*\*\*

Outstanding - 25 to 30  
Very Good - 20 to 25  
Good - 15 to 20  
Satisfactory - 10 to 15  
Un satisfactory - 5 to 10

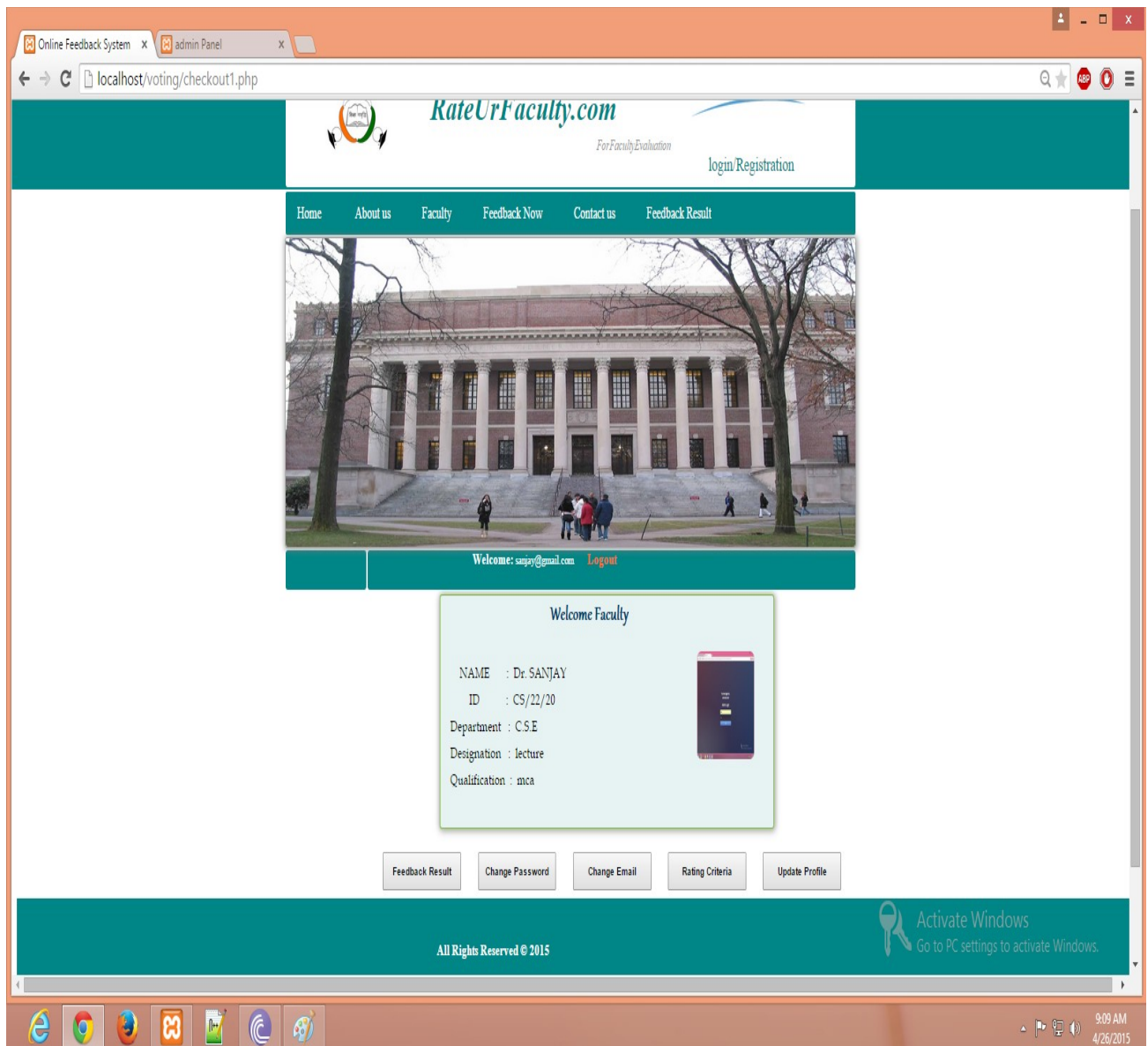
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Activate Windows  
Go to PC settings to activate Windows.

9:05 AM  
4/26/2015

## FACULTY PANNEL

## Faculty Feedback System



## FEEDBACK RESULT INDIVIDUAL

## Faculty Feedback System

Online Feedback System x admin Panel x

localhost/voting/checkout1.php?payment

Welcome: sanjay@gmail.com [Logout](#)

Welcome Faculty

NAME : Dr. SANJAY  
ID : CS/22/20  
Department : C.S.E  
Designation : lecture  
Qualification : mca

[Feedback Result](#) [Change Password](#) [Change Email](#) [Rating Criteria](#) [Update Profile](#)

View Feedback Result here

S.N	Faculty ID	Department	Salutations	Faculty Name	Faculty E-mail	Attitude	Knowledge	Skill	Behaviour	Aids	presentation	Total	date & Time	Message
1	CS/22/20	C.S.E	Dr.	SANJAY	sanjay@gmail.com	4	5	4	3	5	4	25		good

Activate Windows  
Go to PC settings to activate Windows.

9:11 AM  
4/26/2015

## ADMIN PANNEL

## Faculty Feedback System

The screenshot displays a web browser window with two tabs: 'Online Feedback System' and 'admin Panel'. The address bar shows the URL 'localhost/voting/admin\_area/index.php?insert\_facultyrecord#'. The page has a teal header with the title 'Admin Panel' and a subtitle 'For Admin Panel Development'. A 'logout' link is in the top right. Below the header is a yellow sidebar with a 'Manage Content' link. The main content area is titled 'Insert Faculty Record' and contains a form with the following fields:

- Salutations: \* (Dropdown menu: Select salutations)
- Faculty Name: \* (Text input: Enter Name Capital Alphabets) (In Capital Alphabets)
- Faculty\_id: \* (Text input: Capital Alphabates/String/String)
- Departments: \* (Dropdown menu: Select a Department)
- Head of Department: \* (Radio buttons: Yes, No)
- Designation: \* (Text input)
- Qualification: \* (Text input)
- Experience(Year): \* (Text input)
- Area of Interest: \* (Text input)
- Field of Research: (Text input)
- Faculty Image: (Choose file) No file chosen
- E-mail: \* (Text input)
- Mobile No: \* (Text input: Sorting Number (7,8,9))
- Gender: \* (Dropdown menu: Gender)

An 'Insert Record' button is at the bottom of the form. A Windows watermark is visible in the bottom right corner of the browser window.

View record

# Faculty Feedback System

Online Feedback System

admin Panel

localhost/voting/admin\_area/index.php?view\_allfaculty

## Admin Panel

For Admin Panel Development

[logout](#)

Manage Content

View All Faculty Record Here

S.N	Salutation	Faculty Id	Faculty Name	Image	Department	H.O.D	Email	Mobile No	Status	View	Delete
1	Mr.	FC/0004/12	KRISHAN PAL SINGH		PHYSICS	(H.O.D)	krishan@gmail.com	7867564534	active	<a href="#">View</a>	<a href="#">Delete</a>
2	Ms.	FC/0005/12	NEETU SINGH		ANIMATION		neetu@gmail.com	9877645677	active	<a href="#">View</a>	<a href="#">Delete</a>
3	Dr.	FC/0006/12	BHUMI AGRAWAL		MATHEMATICS		bhumi@gmail.com	9787654567	active	<a href="#">View</a>	<a href="#">Delete</a>
4	Prof.	FC/0007/12	PRAMOD KUMAR GUPTA		MATHEMATICS	(H.O.D)	pramod90@gmail.com	8765346598	active	<a href="#">View</a>	<a href="#">Delete</a>
5	Dr.	FC/0009/12	ABHISHEK GAHLOT		CHEMISTRY		abhishek@gmail.com	8976567456	active	<a href="#">View</a>	<a href="#">Delete</a>
6	Mr.	FC/0010/12	NITESH MUDGAL		ANIMATION		nitesh@gmail.com	7897654567	active	<a href="#">View</a>	<a href="#">Delete</a>
7	Prof.	FC/0012/12	PRAKASH KUMAR		MANAGEMENT		prakash@gmail.com	7896546789	active	<a href="#">View</a>	<a href="#">Delete</a>
											

Activate Windows  
Go to PC settings to activate Windows.





9:00 AM  
4/26/2015

## Faculty Feedback System

Online Feedback System | admin Panel

localhost/voting/admin\_area/index.php?view\_allrecord

### Admin Panel




For Admin Panel Development

logout

Manage Content +

Delete All Record

*View all feedback Result Here*

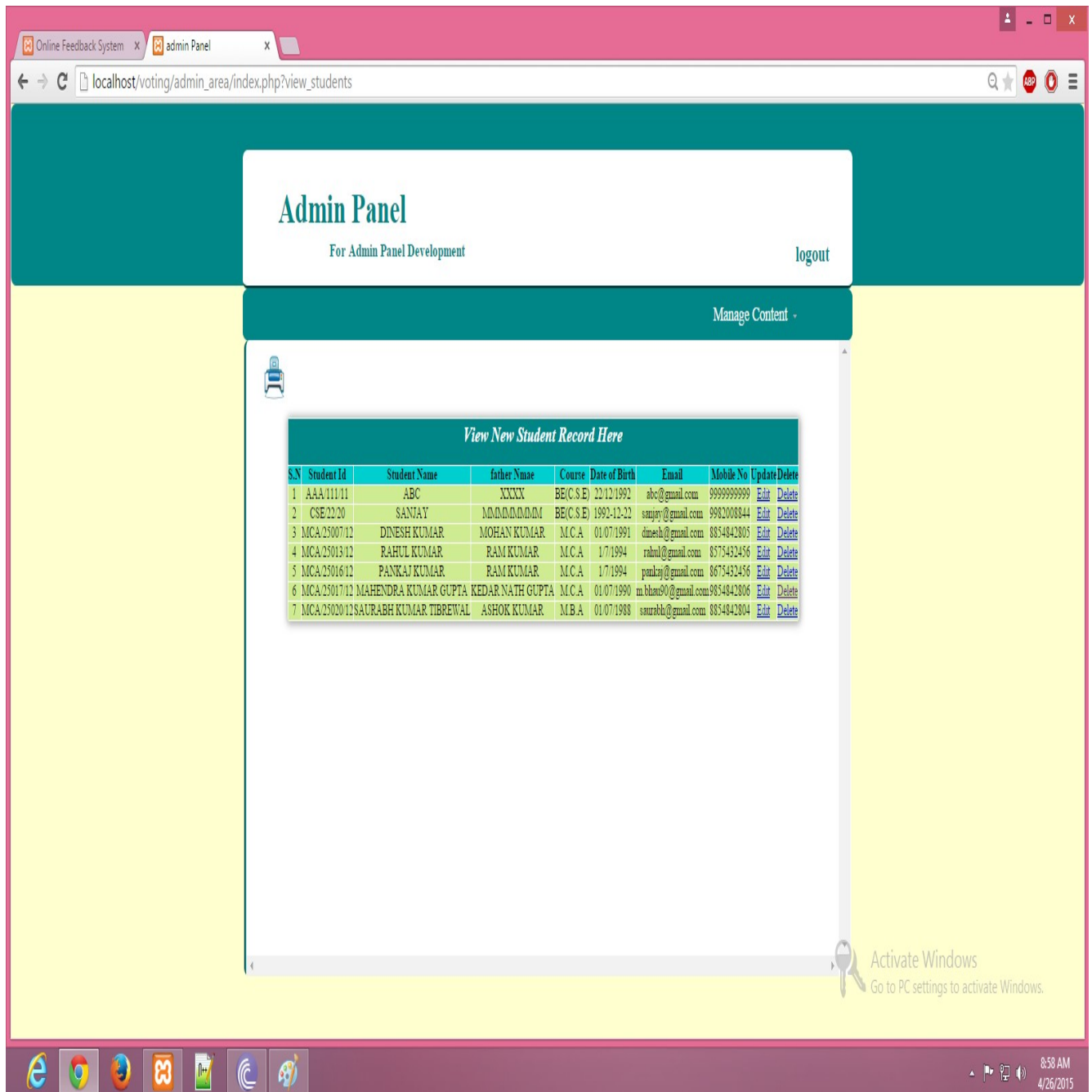
S.N	Student ID	Student E-mail	Salutations	Faculty Name	Faculty Image	Faculty ID	H.O.D	Department	Faculty E-mail	Attitude	Knowledge
1	MCA/25017/12	m.bham80@gmail.com	Dr.	LEELA		FC/95091/10	(H.O.D)	C.S.E	leela@gmail.com	1	2
2	MCA/25017/12	m.bham80@gmail.com	Dr.	BHUMI AGRAWAL		FC/0006/12		MATHEMATICS	bhumi@gmail.com	2	3
3	MCA/25017/12	m.bham80@gmail.com	Prof.	PRAMOD KUMAR GUPTA		FC/0007/12	(H.O.D)	MATHEMATICS	pramod80@gmail.com	2	1

Activate Windows  
Go to PC settings to activate Windows.

## Student Record



## Faculty Feedback System



Online Feedback System x admin Panel x

localhost/voting/admin\_area/index.php?view\_students

### Admin Panel

For Admin Panel Development

logout

Manage Content -

View New Student Record Here

S.N	Student Id	Student Name	father Name	Course	Date of Birth	Email	Mobile No	Update	Delete
1	AAA/111/11	ABC	XXXX	BE(C.S.E)	22-12-1992	abc@gmail.com	9999999999	<a href="#">Edit</a>	<a href="#">Delete</a>
2	CSE/22/20	SANJAY	MMMMMMMM	BE(C.S.E)	1992-12-22	sanjay@gmail.com	9982100844	<a href="#">Edit</a>	<a href="#">Delete</a>
3	MCA/25007/12	DINESH KUMAR	MOHAN KUMAR	M.C.A	01.07/1991	dimesh@gmail.com	9854842805	<a href="#">Edit</a>	<a href="#">Delete</a>
4	MCA/25013/12	RAHUL KUMAR	RAM KUMAR	M.C.A	1/7/1994	rahul@gmail.com	8575432456	<a href="#">Edit</a>	<a href="#">Delete</a>
5	MCA/25016/12	PANKAJ KUMAR	RAM KUMAR	M.C.A	1/7/1994	pankaj@gmail.com	8675432456	<a href="#">Edit</a>	<a href="#">Delete</a>
6	MCA/25017/12	MAHENDRA KUMAR GUPTA	KEDAR NATH GUPTA	M.C.A	01.07/1990	m.bhau90@gmail.com	9854842806	<a href="#">Edit</a>	<a href="#">Delete</a>
7	MCA/25020/12	SAURABH KUMAR TIBREWAL	ASHOK KUMAR	M.B.A	01.07/1988	saurabh@gmail.com	9854842804	<a href="#">Edit</a>	<a href="#">Delete</a>

Activate Windows  
Go to PC settings to activate Windows.

8:58 AM  
4/26/2015

## FEEDBACK RESULT



## Faculty Feedback System



The screenshot displays the Admin Panel of the Faculty Feedback System. The page has a teal header with the title "Admin Panel" and a "logout" link. Below the header is a "Manage Content" button. The main content area features a "View all feedback Result Here" section with a table of feedback results. The table has 11 columns: S.N, Student ID, Student E-mail, Salutations, Faculty Name, Faculty Image, Faculty ID, H.O.D, Department, Faculty E-mail, Attitude, and Knowledge. The table contains three rows of data.

S.N	Student ID	Student E-mail	Salutations	Faculty Name	Faculty Image	Faculty ID	H.O.D	Department	Faculty E-mail	Attitude	Knowledge
1	MCA/25017/12m	bhau90@gmail.com	Dr.	LEELA		FC9509110	(H.O.D)	C.S.E	leela@gmail.com	1	2
2	MCA/25017/12m	bhau90@gmail.com	Dr.	BHUMI AGRAWAL		FC000612		MATHEMATICS	bhumi@gmail.com	2	3
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## 5 TESTING

### 7.1 SOFTWARE TESTING

Software testing is a critical element of software quality assurance and represents the ultimate reuse of specification. Design and code testing represents

interesting anomaly for the software during earlier definition and development phase, it was attempted to build software from an abstract concept to tangible implementation.

The testing phase involves, testing of the development of the system using various techniques such as White Box Testing, Control Structure Testing.

## 7.2 TESTING TECHNIQUES

### 7.2.1 WHITE BOX TESTING

White box testing is a test case design method that uses the control structure of the procedural design to derive test cases. After performing white box testing it was identified that:

- The Leave Recording System (LRS) software guarantees that all independent paths within the modules have been exercised at least once.
- It has been exercised all logical decisions on their true and false sides.
- It was tested to execute all loops at their boundaries and within their Operational bounds
- It was tested for the internal data structures to ensure their validity.

### 7.2.2 CONTROL STRUCTURE TESTING

The following tests were conducted and it was noted that the BCBS is performing them well.

- Basic path Testing
- Condition Test
- Data Flow Testing
- Loop Testing

Black box testing methods focuses on the functional requirements of the software by conducting black box testing using the methods Equivalence Partitioning Boundary Value Analysis and Cause-Effect-Graphing techniques.

- Functional validity of LRS checked.
- Checked the isolation of the boundaries of a class.

The tolerance of the system for the data rates and data volumes.

## 7.3 TESTING STRATIGIES

A strategy for software testing must accommodate low-level tests that are necessary to verify that a small source code segment has been correctly implemented as

well as high level against customer requirements.

#### 7.3.1 UNIT TESTING:

Unit testing focuses verification on the smaller unit of software design such as form. This is known as form testing. The testing is done individually on each form. Using the unit test plan, prepared in design phase of the system development as a guide, important control paths are tested to uncover within the boundary of the module. In this step, the module is working satisfactorily as a regard to the expected output from the module

#### 7.3.2 INTEGRATION TESTING:

Data can be lost across an interface, one module can have an adverse effect on another sub function, when combined, may not produce the desired major function. Integration testing is a systematic technique for constructing the program structure while at the same time conducting tests to uncover errors associated with the interface. All the modules are combined in the testing step. Then the entire program is as a whole.

Different integrated test plans like top down integration and bottom up integration are tested and different errors found in the system are corrected using them. Finally, all the combined modules are performed well.

#### 7.3.3 SYSTEM TESTING:

Testing the entire system as a whole and checking for its correctness is system testing. The system is listed for dispensaries between the system and its original objectives. This project was effective and efficient.

## 7. Conclusion

*The Project “Faculty Feedback system” is designed in order reduce the burden of maintaining bulk of records of all the students feedback details of who study in an Educational Institution. Inserting, retrieving and updating the feedback details of a student are easy when it is compared to the manual feedback and storing. Maintaining the project is also easy which can is easily understandable. Maintaining the details in the database is manageable.*

## 8. References

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