A PROJECT REPORT

ON

"INFORMATION MANAGEMENT SYSTEM FOR MENTOR-MENTEE"

Submitted to
UNIVERSITY OF MUMBAI

In Partial Fulfilment of the Requirement for the Award of

BACHELOR'S DEGREE IN COMPUTER ENGINEERING

BY

Dange Mohd Arsh Hanif Heena	14CO20
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UNDER THE GUIDANCE OF
Prof. Muhammed Salman Shamsi

DEPARTMENT OF COMPUTER ENGINEERING
Anjuman-I-Islam's Kalsekar Technical Campus
SCHOOL OF ENGINEERING & TECHNOLOGY
Plot No. 2 3, Sector - 16, Near Thana Naka,
Khandagaon, New Panvel - 410206
2018-2019

AFFILIATED TO
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CERTIFICATE

This is certify that the project entitled

"Information Management System for Mentor-Mentee"

submitted by

Dange Mohd Arsh Hanif Heena	**14CO20**
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is a record of bonafide work carried out by them, in the partial fulfilment of the requirement for the award of Degree of Bachelor of Engineering (Computer Engineering) at *Anjuman-I-Islam's Kalsekar Technical Campus, Navi Mumbai* under the University of MUMBAI. This work is done during year 2018-2019, under our guidance.

Date: /   /

Prof.Muhammed Salman Shamsi	**Prof.Kalpana Bodke**
Project Supervisor	**Project Coordinator**

Prof.Tabrez Khan	**DR. ABDUL RAZAK HONNUTAGI**
HOD, Computer Department	**Director**

External Examiner

Acknowledgements

We would like to take the opportunity to express my sincere thanks to my guide **Prof. Muhammed Salman Shamsi**, Assistant Professor, Department of Computer Engineering, AIKTC, School of Engineering, Panvel for his invaluable support and guidance throughout my project research work. Without his kind guidance & support this was not possible.

We are grateful to him/her for his timely feedback which helped me track and schedule the process effectively. His/her time, ideas and encouragement that he gave is help me to complete my project efficiently.

We would like to express deepest appreciation towards **DR. ABDUL RAZAK HONNUTAGI**, Director, AIKTC, Navi Mumbai, **Prof. TABREZ KHAN**, Head of Department of Computer Engineering and **Prof. KALPANA R. BODKE**, Project Coordinator whose invaluable guidance supported us in completing this project.

At last we must express our sincere heartfelt gratitude to all the staff members of Computer Engineering Department who helped me directly or indirectly during this course of work.

Dange Mohd Arsh Hanif Heena

Khan Saedullah Imdadullah Shakila

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Project I Approval for Bachelor of Engineering

This project entitled *Ïnformation Management System for Mentor-Mentee¨* by *Dange Mohd Arsh Hanif Heena, Khan Saedullah Imdadullah Shakila, Yadav Sushil Babulal Nirmala, Ansari Md Rahil Md Tanweer Rahat* is approved for the degree of *Bachelor of Engineering in Department of Computer Engineering.*
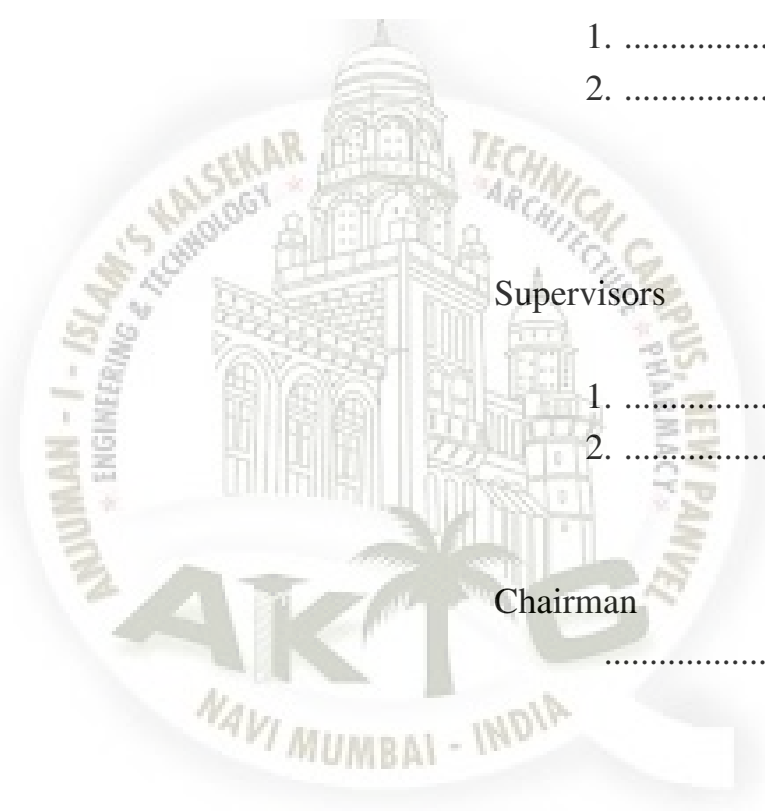
Examiners

1. ....
2. ....

Supervisors

1. ....
2. ....

Chairman

....

Declaration

We declare that this written submission represents my ideas in my own words and where others ideas or words have been included, We have adequately cited and referenced the original sources. We also declare that We have adhered to all principles of academic honesty and integrity and have not misrepresented or fabricated or falsified any idea/data/fact/source in my submission. We understand that any violation of the above will be cause for disciplinary action by the Institute and can also evoke penal action from the sources which have thus not been properly cited or from whom proper permission has not been taken when needed.

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ABSTRACT

This Project bridges the gaps between the Mentors and students in different area of constraints.This system provides an Online Information Management System for mentors and students. The Users in this project are administrator,mentor and students. Here are problems and solutions to the problem that were in the conventional method.

Conventional systems leave a huge gap in interactions among mentors and students. Conventional systems requires the mentors and students to be physically present at the same time at the same place for interaction. It has a large documentation process and it is very time consuming. Manual Information management makes a huge pile of documents which ones misplaced can be loss of important as well as personal information.

In this system we intend to develop a web based application providing the necessary Information management system for mentor and students. students are assigned to the mentors according their area of interest to which the mentors can be helpful to improve the personal as well as acedamics of the students. The registered student can also post their queries online and can get a solution from the mentors through the web and all the Information will be managed digitally which will reduce the manual paper work and human efforts done fro Information management.

Keywords: Php,MySQL,BootStrap,CSS,CDN Table.

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Chapter 1

Introduction

Mentoring(mentoring is a process for developing personal and professional aspects of students through knowledge sharing expertise and experience). Our project takes the mentoring process to new level that is online mentoring, In our system the mentoring processes will be done online and all the data that was stored manually in traditional method will be now stored digitally in the database, making this mentoring online gives the freedom to the students and mentors to do the mentoring from anywhere they want through the system.

1.1 Purpose

As we know in this era of information technology everything needs to be automated, so the traditional mentoring process also needs to be automated, the traditional mentoring process have many drawbacks like it is time consuming it has lots of paperwork and many more, so our main purpose is to overcome all the problems and make it fast through automation.

Our system is an web based application which will manage all the mentoring process like the students can communicate with their mentors through messaging and get their solutions back from the mentor through which the mentors can keep a track of the students progress and solve their academics as well personal problems.

1.2 Project Scope

The Scope of this project is the overall development the students studying in in the institute by keeping a track of their progress through regular assessment of the problems faced by them at various levels. Our project replaces the conventional and unconventional methods of clearing doubts, in which mentor and students can clear doubts from anywhere and anytime irrespective of space and time. It basically focuses on online mentoring process. It Scopes is to do a 360degree development of the student and to have a overall assessment plan for the students. [2]

1.3 Project Goals and Objectives

1.3.1 Goals

The main goal of this project is to provide an Online Mentoring system for data security and overall development of the institute.

1.3.2 Objectives

The Objective of this project is to make the people of institute easily join the mentors program to create a good virtual intimacy which was difficult to achieve in the tradition method. Another objective is to consult the right mentor to the students. The system should be able to track the progress of each student. System should be able to assign mentors to the students according to the difficulties faced by the students.

1.4 Organization of Report

In Chapter 1: We have considered Project overview under which we have explained various important terminologies like Introduction of the project,motivation,problem definition,About current system, Advantages over current system,Goals and Objectives,Scope and Application.

In Chapter 2: We have discussed about various paper that we have referred for our project. We have mentioned the description, pros and cons and how the overcome the problem under every paper, a total of four paper have bee referred.

In Chapter 3: We have discussed about the requirement analysis under it we have considered about the requirement the platform requirement supporting the OS of the software and hardware requirement along with the feasible sudy.

In Chapter 4: We have discussed about software requirement specification in which we have overall description which consists of product perspective,product feature, operating environment, design and implementation constraints this chapter also consists of system features, external interface requirements.

In Chapter 5: We can see the system design and architecture various diagram can be seen in this chapter which represent the software, diagram including our system architecture use case diagram dfd diagram class diagram and component diagram.

In Chapter 6: In this chapter we can see the implementation part which is the screenshots of the projects various like admin panel, faculty registration, view doubts, ask doubts, reply.

In Chapter 7: This chapter is about the System testing, we have done the system testing and the results can be seen in this chapter.

In Chapter 8: This chapter consists of Project screenshots of different pages of the project like admin login panel, student registration,faculty registration, view doubts, view answers.

In Chapter 9: We have mentioned our final conclusion of the project and the future scope of the project in this chapter.

Chapter 2

Literature Survey

2.1   E-Mentoring: Sharing and Preserving Knowledge in Organization

In this paper we have understood that mentoring is a powerful process that can help boost the knowledge transfer in an organization. However the traditional system of doing mentoring manually may resulted in unwanted constraints such as the time needs to schedule the mentoring sessions. This paper proposes an online mentoring system that provides a centralized knowledge sharing system for mentor and understudies. It allows mentoring sessions to happen at any time convenient to both parties. The system provides mentoring among peers instead of just between mentors and understudies.

2.1.1   Advantages of Paper

a. Its shows how we can increase the knowledge sharing by using a centralized knowledge sharing system.

b. Mentors can also share knowledge between them.

c. Due to centralized system everyone haves an equal right over knowledge.

2.1.2   Disadvantages of Paper

a. Due its centralized nature it is less secure.

b. Everyone in the institute can access any data, that also makes it less secure.

c. Mentor cannot authenticate the person trying to asses to track the progress or development plan.

2.1.3   How to overcome the problems mentioned in Paper

a. Authenticate every person using the system.

b. Mentors and students can create their own assessment plan.

c. Students can also get knowledge from other mentors.

2.2 Analyzing Online Mentoring Process and Facilitation Strategy

This paper proposes various attempts to design and propose effective strategies to facilitate mentoring activities for each phase. Five easy strategies such as Easy-to-join,Easy-to-find,Easy-to-mentor,Easy-to-share and Easy-to-make a virtuous circle were identified. These strategies are designed to support participants mainly to join a mentoring program to facilitate online mentoring activities, and to develop an inner network to support proteges as they become mentors. The plan for actual implementation is ongoing with 200 participants, and future mentors and proteges may benefit from these strategies once they are fully developed

2.2.1 Advantages of Paper

a. The mentors and students can easily join the program.

b. Both can easily find suitable mentors.

c. Mentors and students can easily share the knowledge.

2.2.2 Disadvantages of Paper

a. Searching the right mentor can be challenging.

b. Nurturing the relationship between mentor and student is challenging.

c. There is not an common entity between mentor and students which knows the both of them.

2.2.3 How to overcome the problems mentioned in Paper

a. Making some changes in the Easy-to-Strategies.

b. There should be an common entity between the mentors and students.

c. It should have more open participation between different mentors.

2.3 E-Mentoring : An Innovative Twist to Traditional Mentoring.

This paper tells about that many organizations have established and implemented traditional mentoring programs. Both qualitative and quantitative research studies have found that successful mentoring programs enhance productivity, job satisfaction and may ultimately led to protege advancement. Traditional methods of mentoring are created through the means of one to one relationships established between the mentor and protege. E-mentoring through the use of synchronous and asynchronous computer-mediated communication is a new means for establishing mentor protege relationships by creating virtual teams. This paper seeks to compare and contrast traditional mentoring with e-mentoring and propose new innovative ways to use e-mentoring in an organizational setting.

2.3.1 Advantages of Paper

a. New innovative ways to use e-mentoring in an organizational setting.

b. Mentoring has enhanced productivity, job satisfaction.

c. Increasing the mentor and student relationship.

2.3.2 Disadvantages of Paper

a. It may be difficult for mentors of Generation X.

b. As they will not be familiar with technology or may be uncomfortable to do online mentoring.

c. As the people who are not familiar with it and dont believe that E-mentoring may work, it will be difficult to explain them that it is important and make them familiar with it.

2.3.3 How to overcome the problems mentioned in Paper

a. Explaining about what is E-mentoring.

b. Training peoples to use the system.

c. Solve their problems while they use the system constantly and make them comfortable about the system.

Chapter 3

Project Planning

3.1 Members and Capabilities

Table 3.1: Table of Capabilities

SR. No	Name of Member	Capabilities
1	Saeed	Programming,Database,UI Design
2	Arsh	UI Design,Presentation
3	Sushil	Programming,UI Design
4	Rahil	Prgramming,Database,UI Design

Work Breakdown Structure

3.2 Roles and Responsibilities

Table 3.2: Table of Responsibilities

| SR. No	Name of Member	Role	Responsibilities
1	Arsh	Team Leader	Leading the Team,UI Design
2	Saeed	Group member2	Programming
3	Rahil	Group member3	Database
4	Sushil	Group member4	UI Design

3.3 Assumptions and Constraints

Assumptions are that the admin is reliable person and the data entered by admin is valid and correct.

There are many different traditional mentoring processes but this system is online mentoring system and stores everything digitally in the database which makes it secure

3.4 Project Management Approach

We have used spiral methodology for the development of this system. The Spiral methodology process is a value centered methods of project management that allows projects to get processed in small phases or cycles. The methodology is one that is extremely flexible and projects that exhibit dynamic traits would benefit from this process as you would and that project managers working in this environment treat milestones the goal being to continuously adapt to abrupt changes from our project guide feedback.
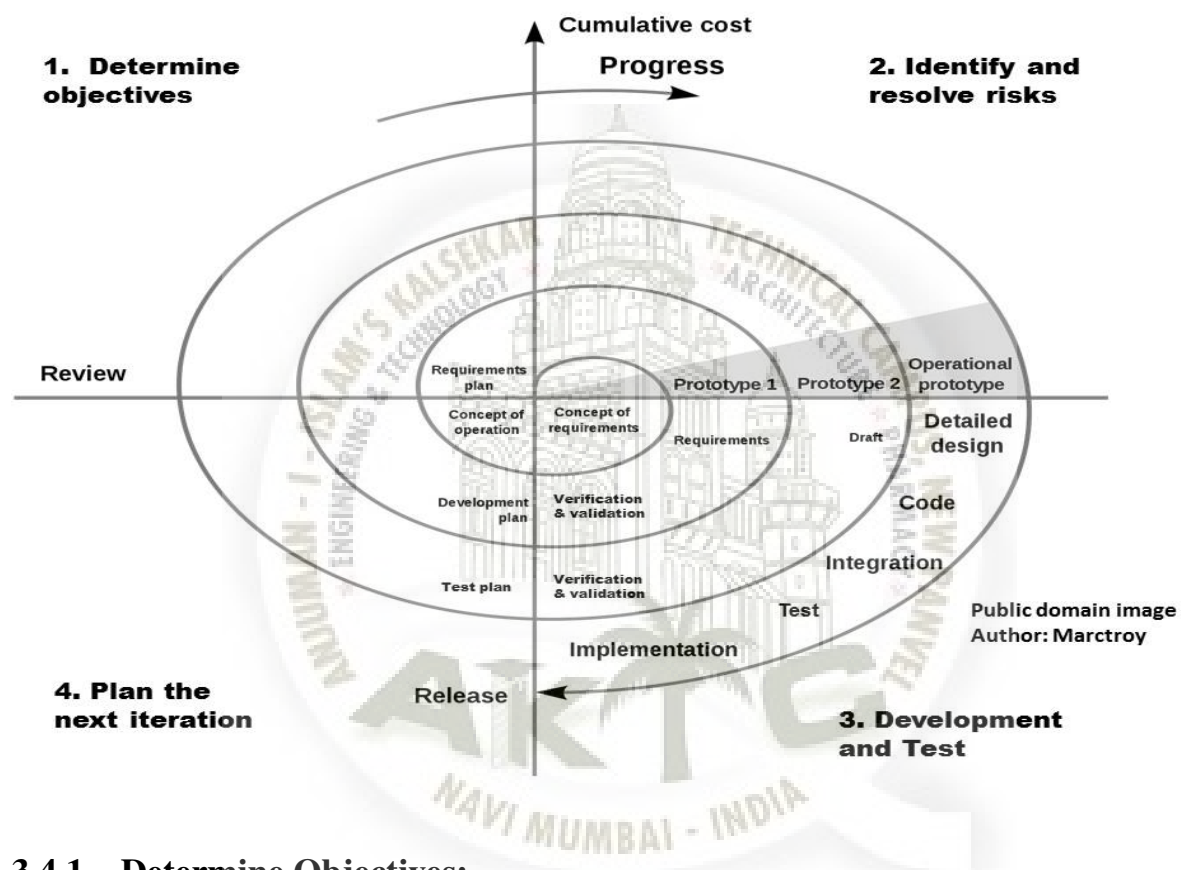
3.4.1 Determine Objectives:

1. To reduce the communication gap between the students and faculties.
2. To make people easily join the mentoring program.
3. It should have secured communication network.
4. To assign correct mentor to the students.

3.4.2 Identify and Analyse Risks:

1. One of the risks that we have analysed is that, at the time of student registration admin can view the password, so we have overcome it by applying hashing(MD-5) algorithm.


3.4.3   Development and Test:

1. In development phase five modules are developed the admin module,login module,student module,faculty module,QA operation.
2. All the modules are tested before implementation.

3.4.4   Next Iteration:

1. The next step is to integrate all the modules. 2. After integration all the modules should run simultaneously like like the admin must be able to assign faculties to students, and the students and faculty must be able to communicate smoothly.

3.5   Ground Rules for the Project

1. User must be provided with the correct userid and password from the admin.
2. The user must be aware of the system and how to use it.
3. The admin must be aware of the specializations of faculties and weaknesses of students.
4. The faculty must be allotted to students they are knowing.
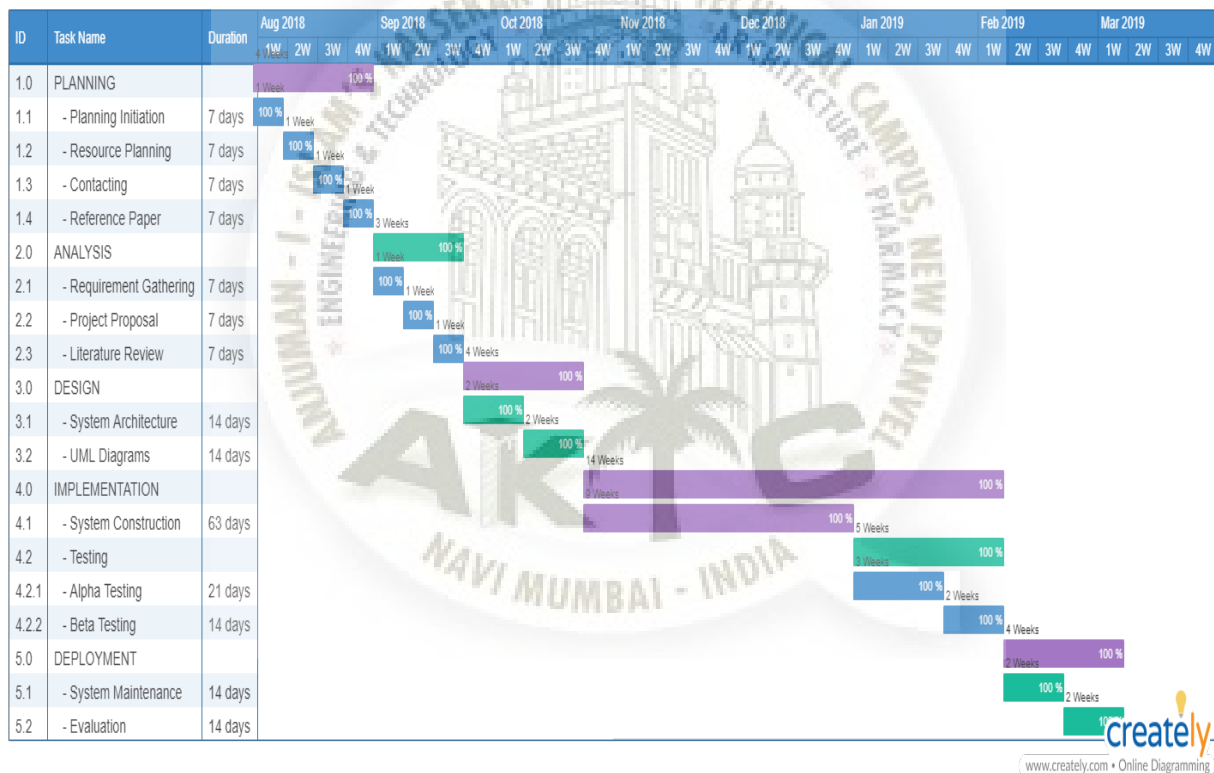5. Students must be able to get fast responses from faculties.
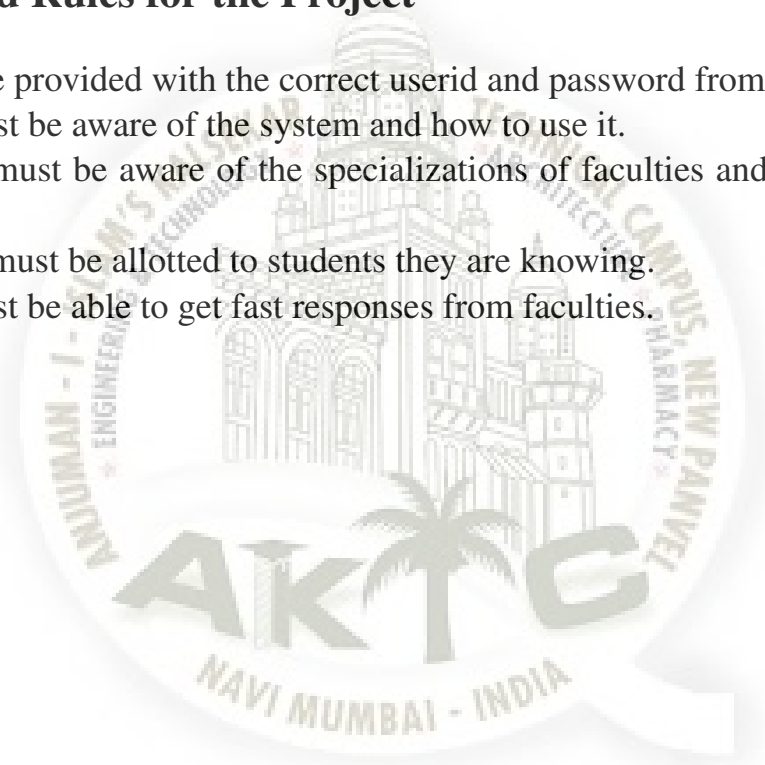
3.6   Project Budget

It is an very low budget project as most of the things required for this project is Open source. Following are the things required for the project.

1. Operating System: linux(open source)

2. IDE: Microsoft Visual Studio(open source)

3. Server: xampp server(open source)

3.7   Project Timeline

Chapter 4

Software Requirements Specification

4.1 Overall Description

4.1.1 Product Perspective

Our system is based on the online mentoring process. It uses all the digitally saved information for better and improved mentoring and to have a good information management system.

4.1.2 Product Features

The major feature of this product is that it has better information management system and the students and the faculty can communicate in through the system by sending messages to each other.

4.1.3 Operating Environment

The software will operate in any environment where it has an access to any web browser, minimum requirement for the operating system is Linux and minimum requirement of Browser is Internet Explorer V10.

In terms of platform requirement, our system is independent of platform, as our system is a web based application, so it requires any operating system with web browser as for computer system.

4.1.4 Design and Implementation Constraints

The main problem that can create hurdle in mentoring is that the only admin can add students and faculties and only admin can assign faculty to the students. If the admin is not available he students and faculty needs to wait. Another constraint would be internet connectivity, if there is no internet connectivity none of the users can access to the website.

4.2   System Features

The main features of our system is to provide an ease in mentoring process through online mentoring for overall development of the students in person as well as in academics.

4.2.1   System Feature

1. Faculty Assigning. 2. Communication through chat.

1. Faculty Assigning: As admin will be the one who will assign faculty to the students the admin will be informed about the weakness of the students and accordingly the admin will be assign the faculty to the students according to their area of constraints.

2. Communication through Chat: The students and faculty once assigned to each other both can communicate through chat that means the students can post their doubts to the mentors and mentors can reply back through chat.

Description and Priority

The highest priority given to the features is communication through chat. It is the most important feature in all because it is one through which the mentor and students can communicate for self betterment.Second most priority is given to the faculty assigning, the admin must be well aware of the faculties knowledge to assign him the student.

Stimulus/Response Sequences

1.The User will login through its email that is username and password which is given by the admin.
2.The students will check the faculties assigned to it, and faculties will check the students assigned to them.
3. The students will then ask questions to the faculty through chat and faculty will give back the response back.

Functional Requirements

1. The user shall enter correct username and password.
2. The user must be able use the system and send his/her doubts to the mentors.
3. The students must wait for the response that is the answers of their questions.

4.3   External Interface Requirements

4.3.1   User Interfaces

1. User shall be able to login the system.
2. After login session shall be maintain.
3. User must set all his information and must be able to communicate with the mentors.

4.3.2   Hardware Interfaces

Any web enabled device : The device should support web applications. The device should have minimum pentium processor for smooth running of application.

4.3.3   Software Interfaces

Operating System: Linux.
Browser: Google chrome,Firefox,Internet Explorer.
Database: Php,MySql.

4.3.4   Communications Interfaces

The major communication will be done between the server and the client which are students/faculties they visit the website for mentoring purpose and the website acts as a server.

4.4   Nonfunctional Requirements

4.4.1   Performance Requirements

1. Response Time: For the quick response of 0.2 seconds as it is its avg response time, internet bandwidth must be higher in MBs.
2. Workload: At a time multiple users can access the web application for mentoring purpose and to avoid the website to get slow, hosting of website should be with a good server specification.

4.4.2   Safety Requirements

1. Only registered users should have privilege to access the system.
2. Our system will provide data abstraction between faculties and students.
3. Database will be timely maintained.

4.4.3 Security Requirements

1. Once the password is set by the admin it will be stored in encrypted form and admin will not be able to retrieve it.
2. Direct access to any users account thorough URL will not be allowed.

Chapter 5

System Design

5.1 System Requirements Definition

Our system is website applicaion. Our system will function over the information given by the mentoring process. We had done surveys of various systems related to our project. we had decided the system specification of our project. We had studied the end user requirements and based on that we decided the functional and non-functional requirements.

5.1.1 Functional Requirements

1. The admin must register the users that are the students and mentors and fill all the informations about the both.
2. The Students and mentor must login with the credentials given by the admin.
3. The students and mentors must communicate through the messaging channel.

Use-case Diagram

In Use case diagram we have three characters the admin,student and faculty. The admin registers the students and faculty, the students and faculty then can login the system and can communicate with each other using the messaging system.

Figure 5.1: Use Case Diagram
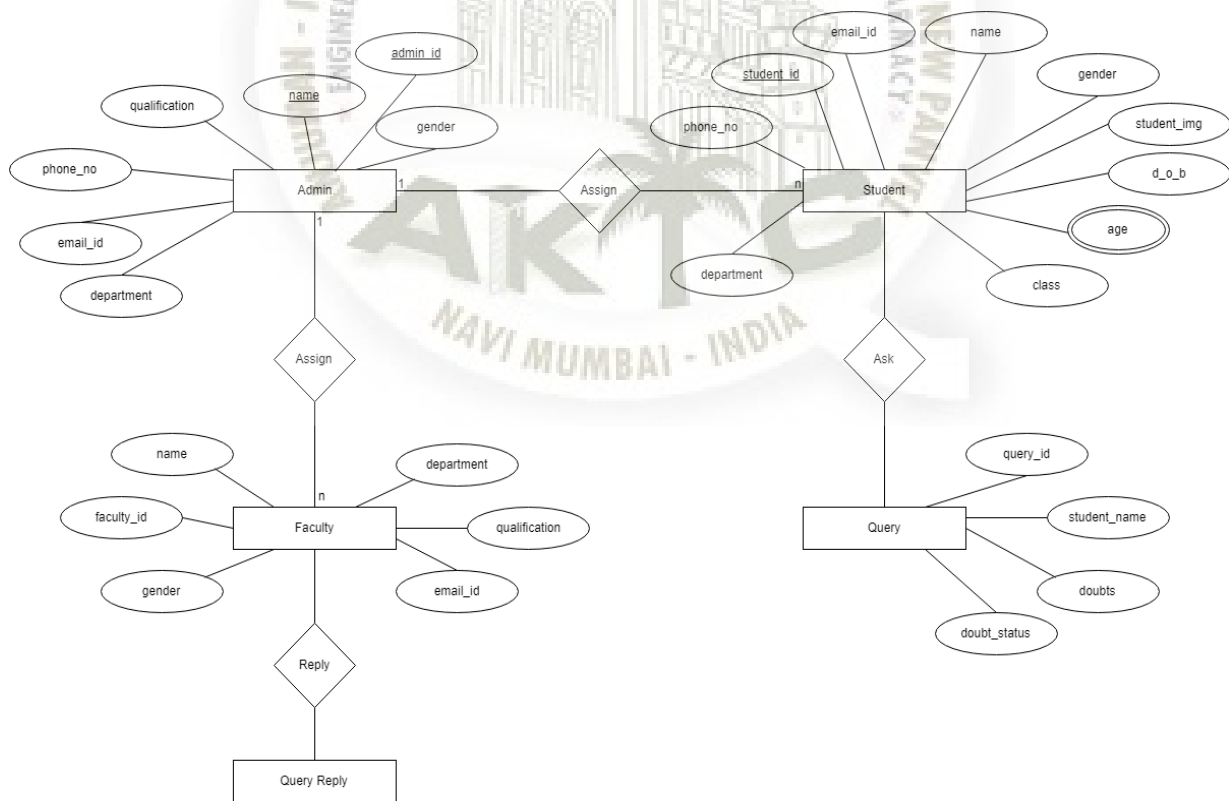
Figure 5.2: EER Diagram

Data-Flow Diagram

Level 0 DFD :
This is the level 0 DFD which show the login process where the admin,student and faculty will login and get access to the system.
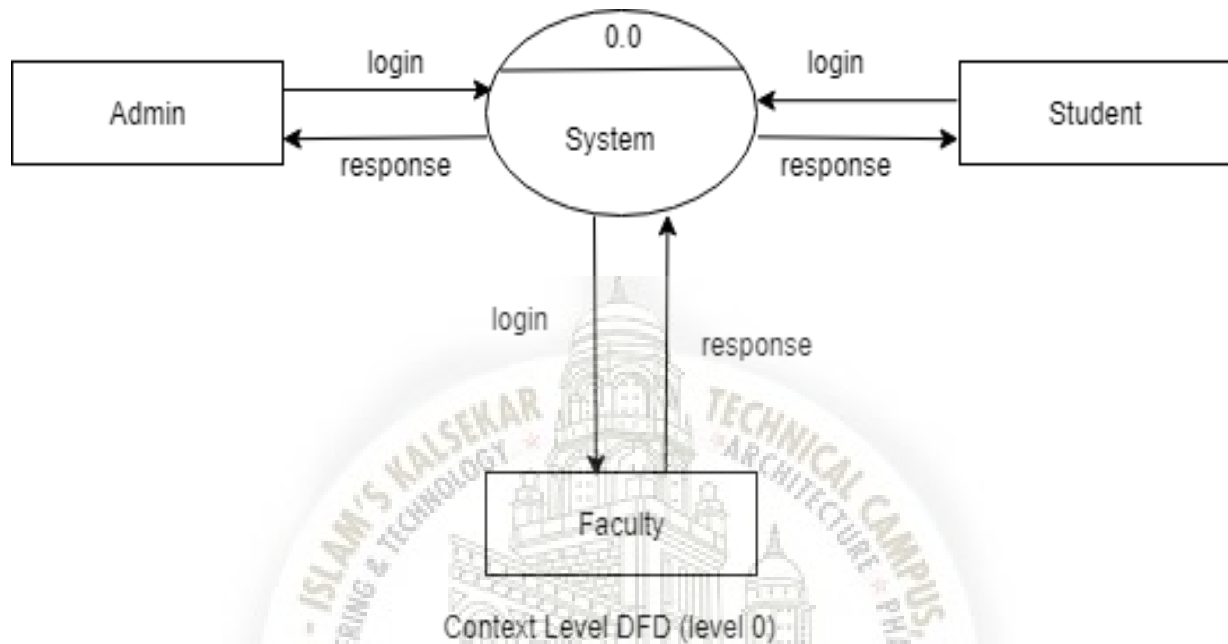

Figure 5.3: Level 0 DFD

Level 1 DFD :
This is the level 1 DFD which shows the assigning process where the admin will be assign the students to the faculty.
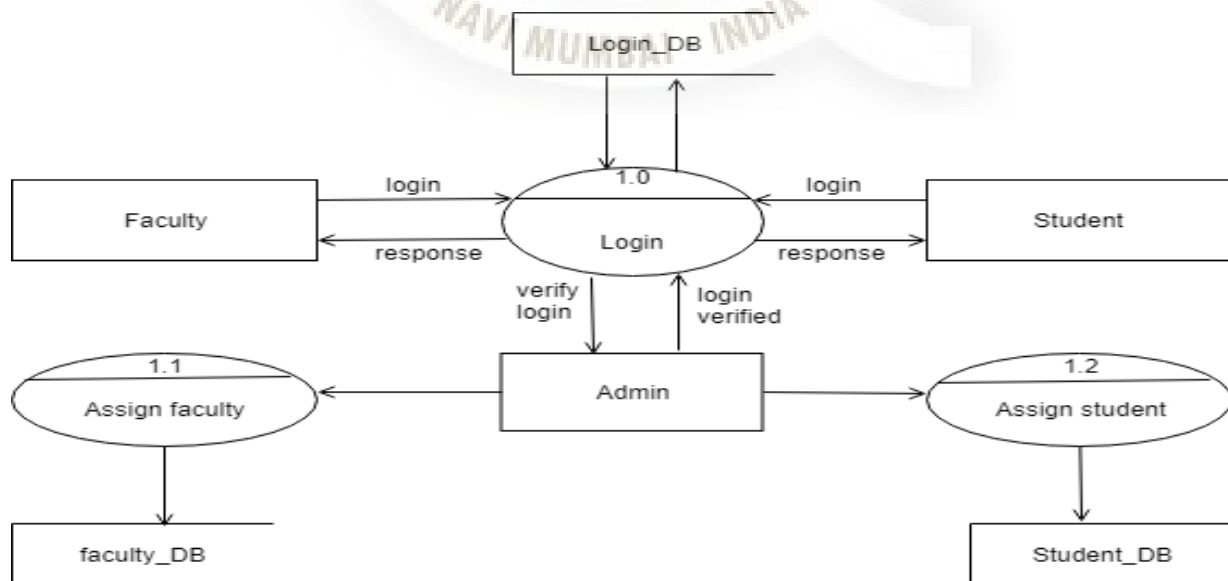

Figure 5.4: Level 1 DFD

Level 2 DFD :

This is the level 2 DFD which shows communication process where the students and faculty communicate with each other.
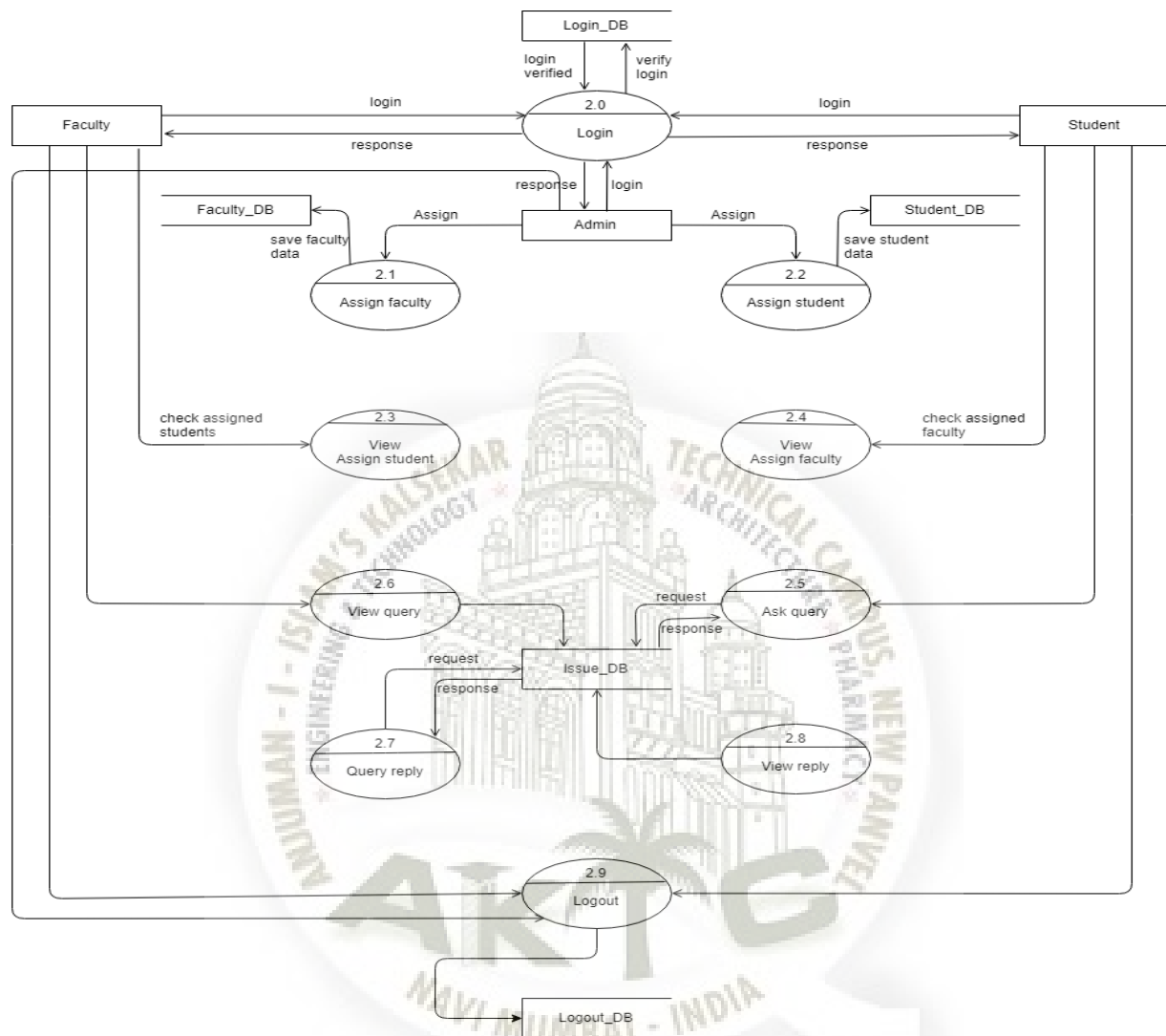
Figure 5.5: Level 2 DFD

5.1.2   System Requirements (Non-Functional Requirements)

Performance Requirement

1.Response Time: For the quick response time of 0.2 seconds as it is its avg response time, internet bandwidth must be higher in MBs.

2.Workload: At a time multiple users can access our website for mentoring purpose and to avoid the website to get slow, hosting of teh website should be with a good server specifications.

Safety Requirements

If in case of any damage to the server occured than the whole system will go down so there must be some alternative for it. The database should be periodically maintained and have to keep upon it. The data which is updated by the admin should be committed in the database.

Security Requirements

The major security requirements for the system will be the safeguarding of the user data from any kind of exploit. In order to protect the user data, the data will only be shown to the authorised users.

5.2 System Architecture Design

System architecture consists of following modules:

- Registration of the User(faculty) : The Admin registers the new Faculty.

- Registration of the User(student) : The Admin registers the new student.

- View module(faculty,students) : The faculty can view the students assigned to them and students can view the faculties assigned to them.

- Messaging module(faculty,students) : The students can message the assigned faculty and can view the reply from them and faculties can view the doubts and can reply on doubts. as well.
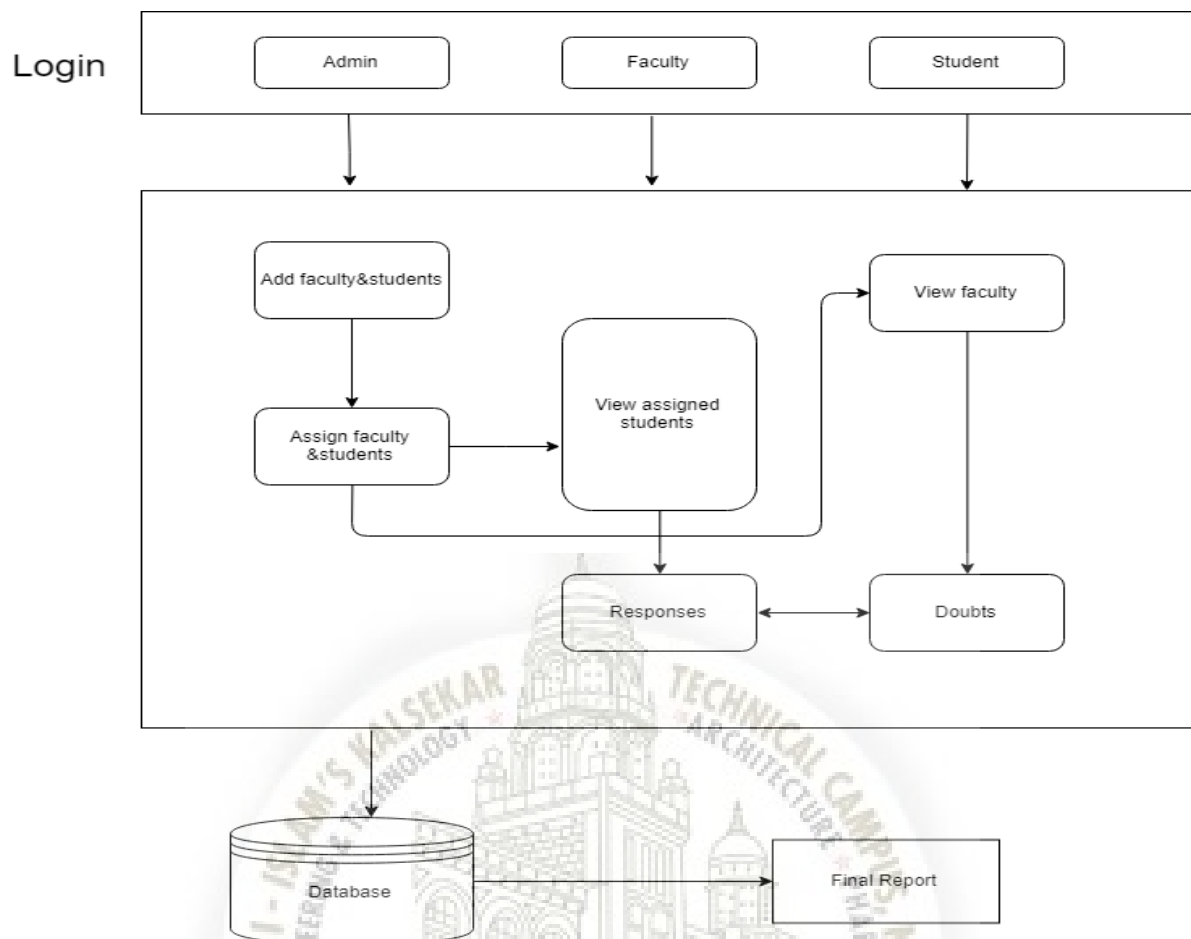
Figure 5.6: System Architecture

5.3 Sub-system Development

1.Admin View : In this module the registration part is done, the admin registers the students and the faculty and also assigns faculty to students.

2.Student View : In this module the students view the faculty assigned to them and can communicate to the faculty through messaging them getting back responses.

3.Faculty View : In this module the faculties view the students assigned to them and can communicate with the students through messaging them.

4.Database Module : In this module all the information is stored like the which student has been assigned to which faculty the communication between them and all their information is stored in the database.

5.3.1   Admin View

Admin is responsible for registering students and faculty and is also responsible for giving them their userid and password.
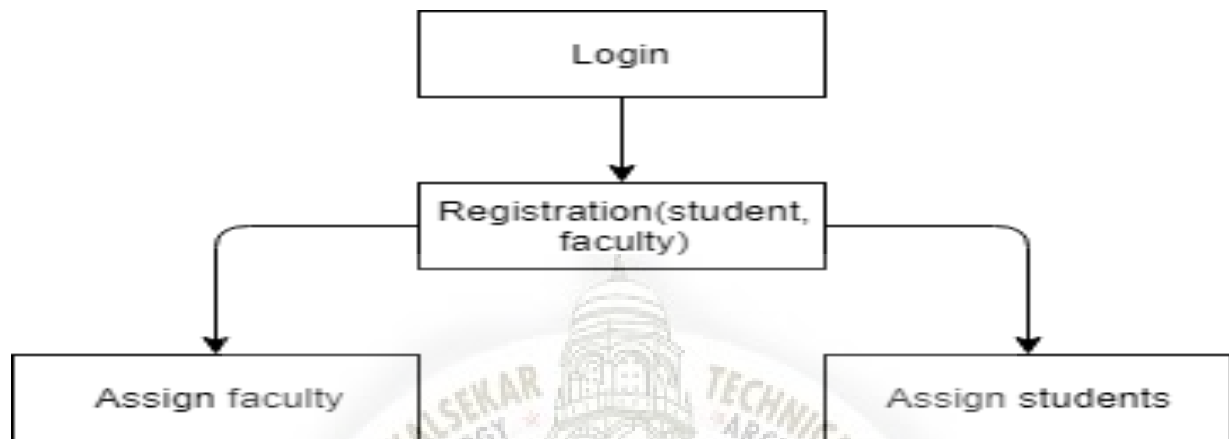

Figure 5.7: Admin View Modular Diagram

5.3.2   Student View

The student gets their userid and password from admin and can login by using them. students can asks queries to their assigned faculties.
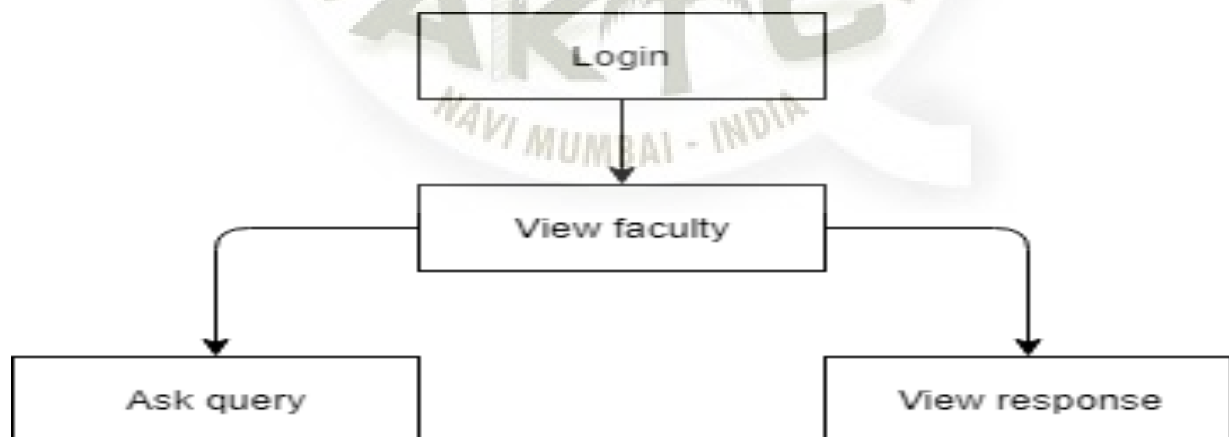

Figure 5.8: Student View Modular Diagram

5.3.3   Faculty View

faculties will get their credentials to login the system from the admin and after login can view the students assigned to them and can respond to their queries using the messaging system.
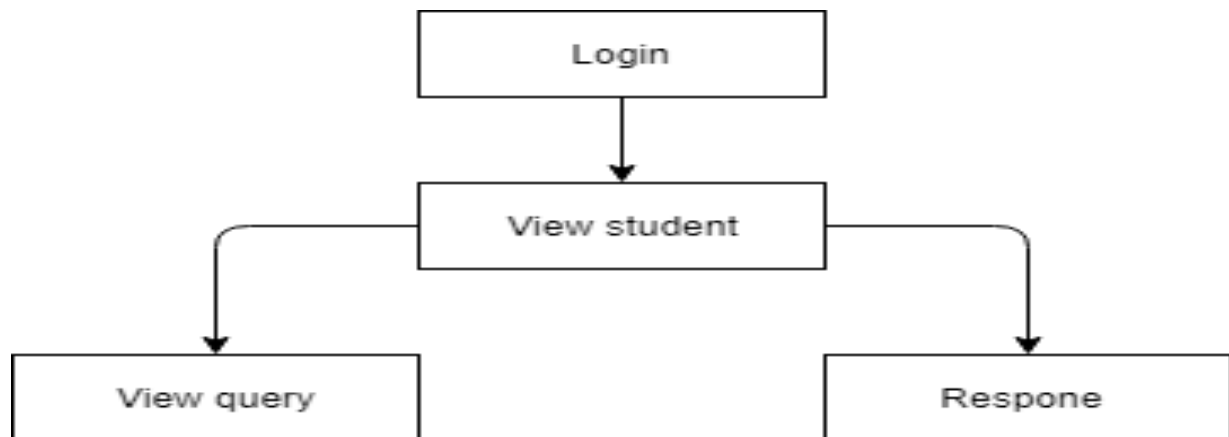
Figure 5.9: Faculty View Modular Diagram

5.3.4   Database Module

In database all the information about the student, faculty and their communication history will be stored the system admin can view this information by logging in from MySQL.
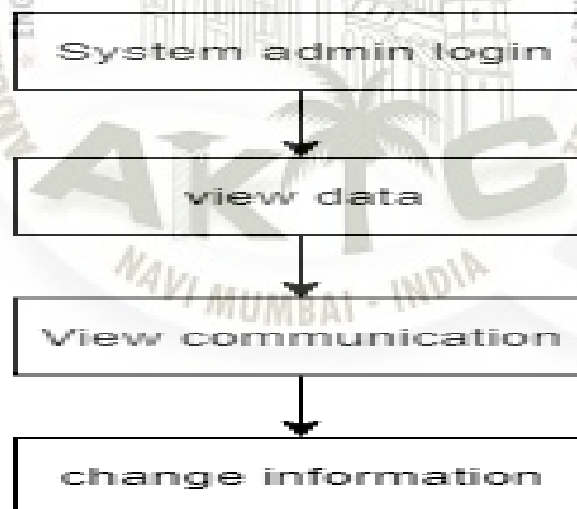

Figure 5.10: Database View Modular Diagram

5.4   Systems Integration

The first module says about the admin end, where the admin registers the students and the faculties and assigns students to faculties. The second modules tells about the student module where the student logins and check the faculty assigned to them can communicate the faculty. The third module tells about the faculty end where

the faculty logins and can check the students assigned to them and can communicate with the students.The fourth module tells about the Database module where the admin can check the student and faculty details and communication between will be saved on the Database.
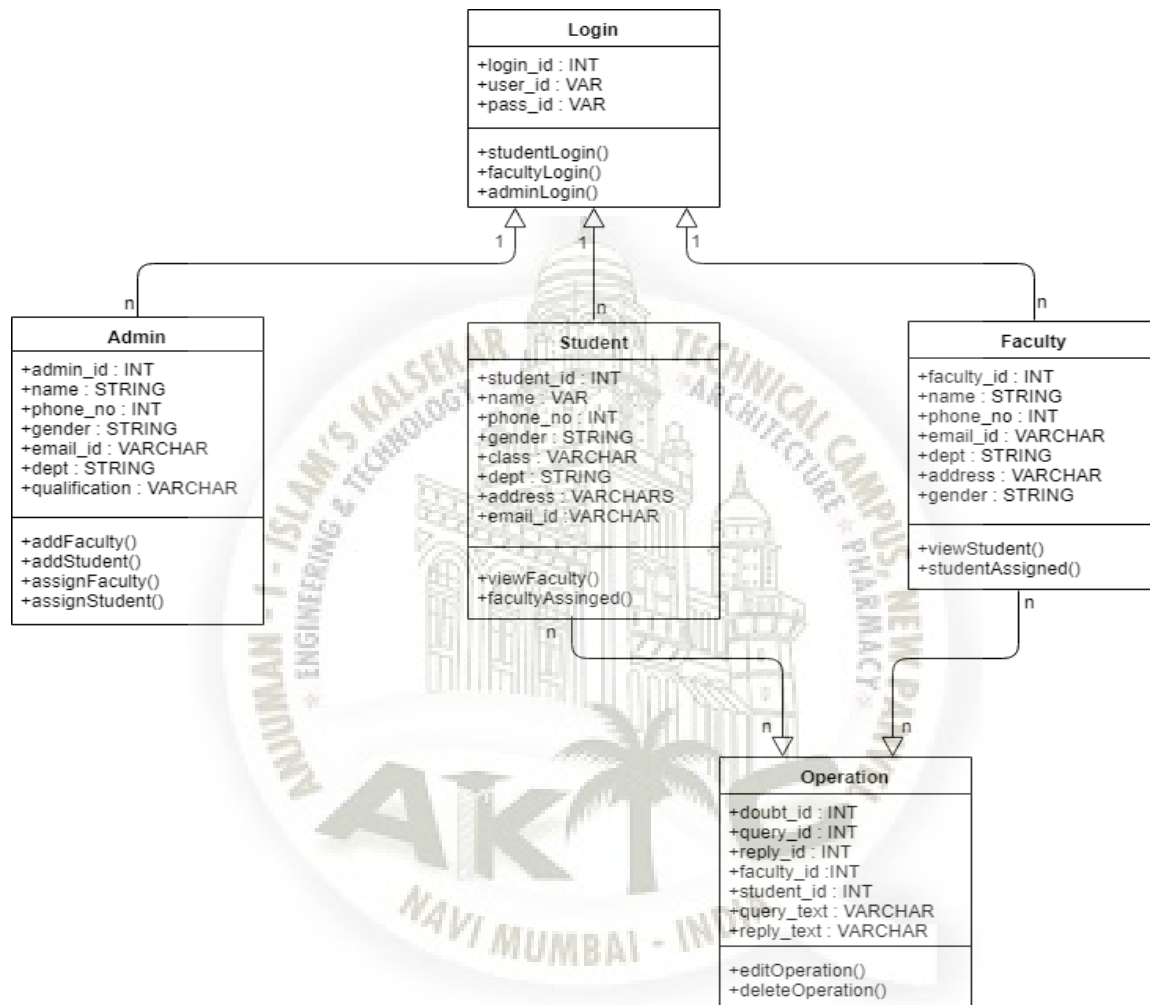
5.4.1 Class Diagram

Figure 5.11: Class Diagram

5.4.2 Sequence Diagram

Sequence Diagram shows the interaction between the different characters in the system that are admin,student and faculty and how the mentoring is done in a sequential flow, as we have many characters in the system it is difficult to show the sequence in one diagram therefore we have three diagrams showing the sequential flow.
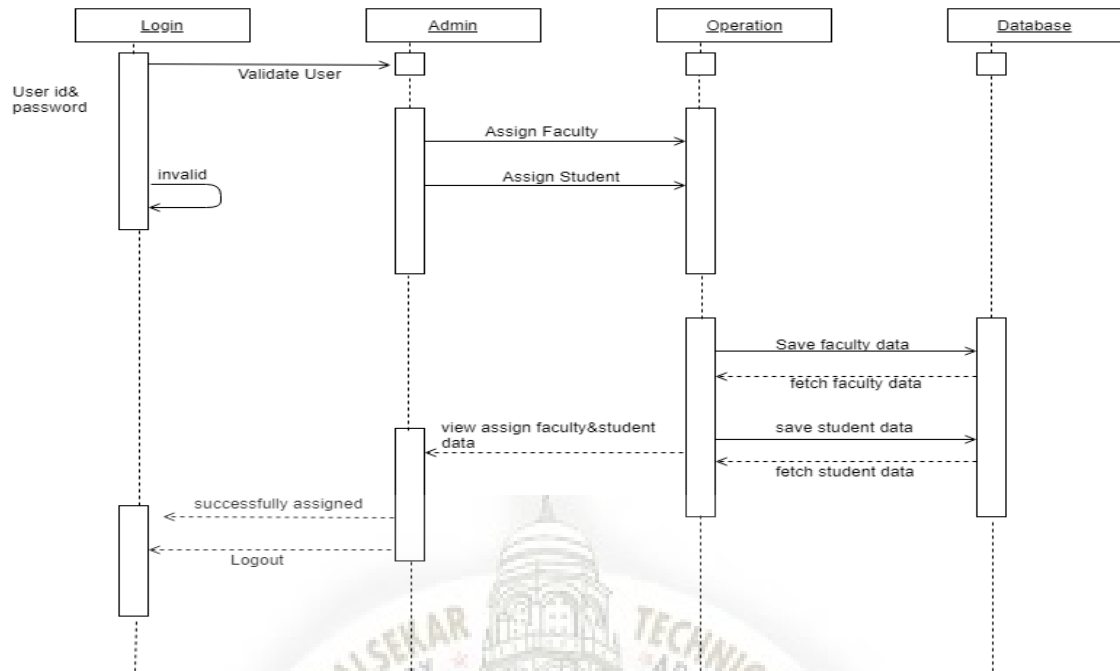
a) Admin

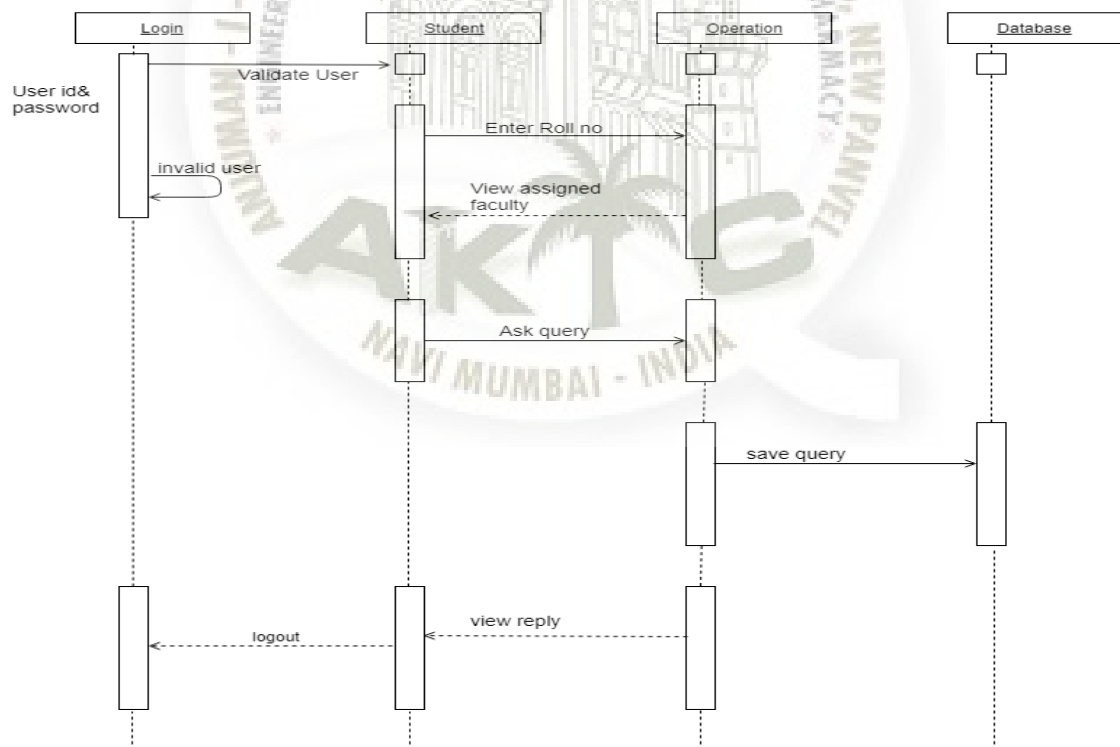**Figure 5.12:** Sequence Diagram of Admin

b) Students

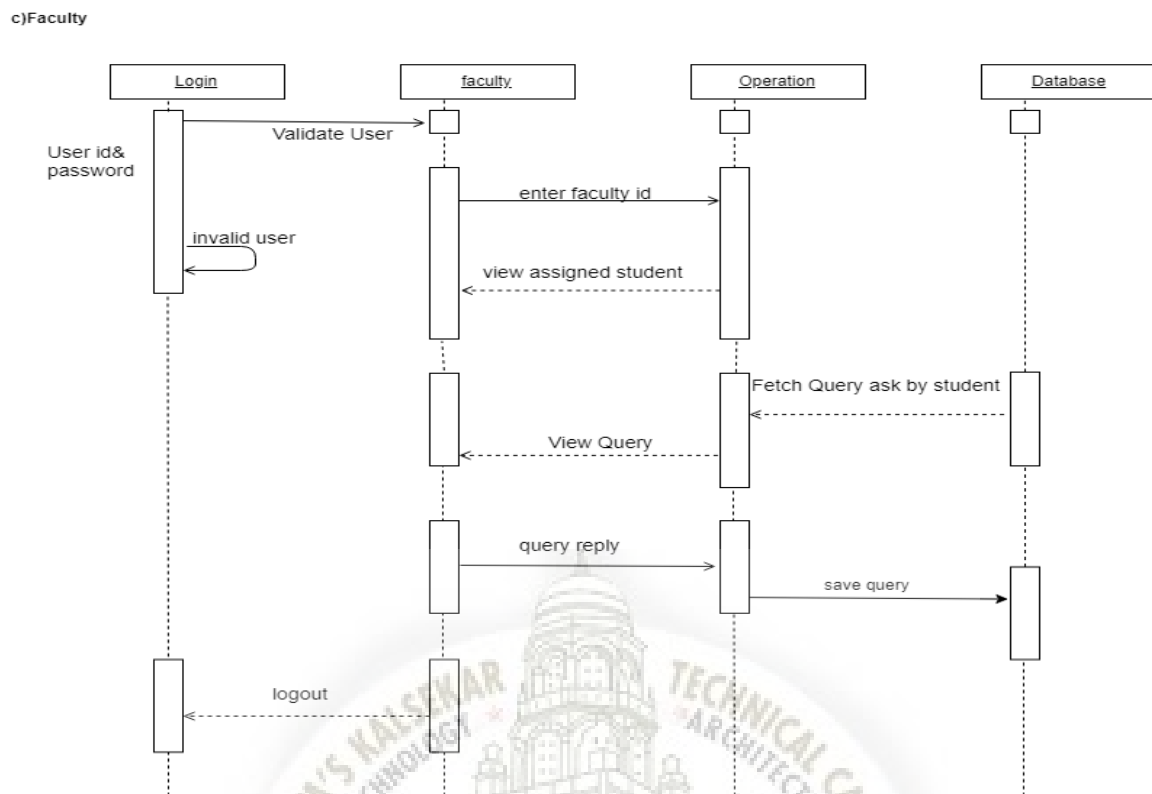**Figure 5.13:** Sequence Diagram of Student

c)Faculty

Figure 5.14: Sequence Diagram of Faculty

5.4.3 Component Diagram

There are four main blocks in component diagram, the Student block, Faculty block,admin block and Database block.

Student Block: In Student there is a login component in which we have certain interfaces like ask query,student detail,view assigned faculty.

Faculty Block : In faculty block there is a login component in which we have certain interfaces like view assigned student,reply answer.

Admin Block : In admin block there is a login component in which we have certain interfaces like faculty assignment, student registration.

Database Block : This block is in between all the blocks and it has a database component which is used for storing all the information.
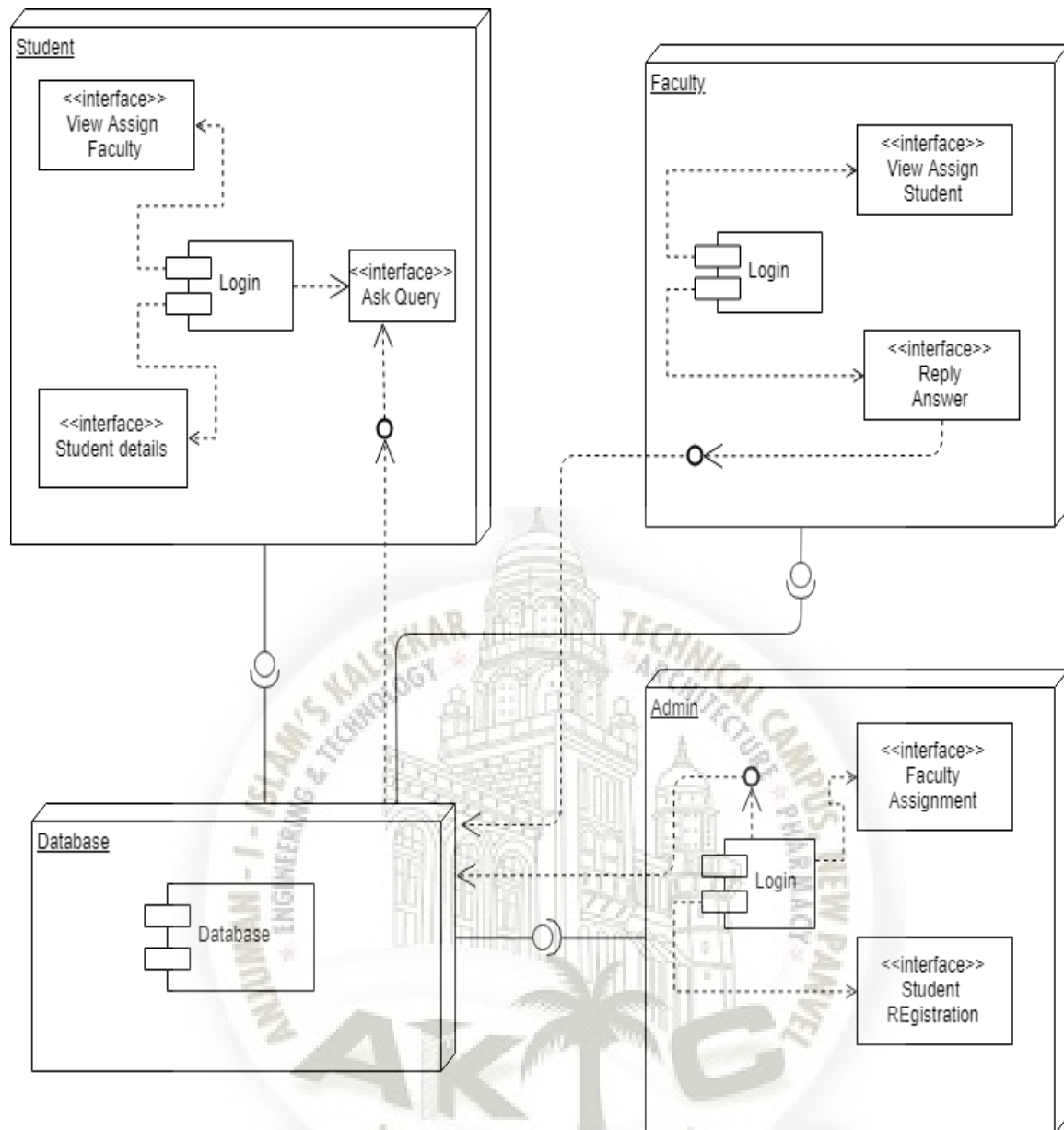
Figure 5.15: Component Diagram

5.4.4 Deployment Diagram

Deployment diagram is a structure diagram which shows architecture of our system as deployment(distribution) of software artifacts of deployment targets that is to the institute. In this diagram, institutes cloud server is there, which will be get connected to the web server so that end-user can interact with our website through there.
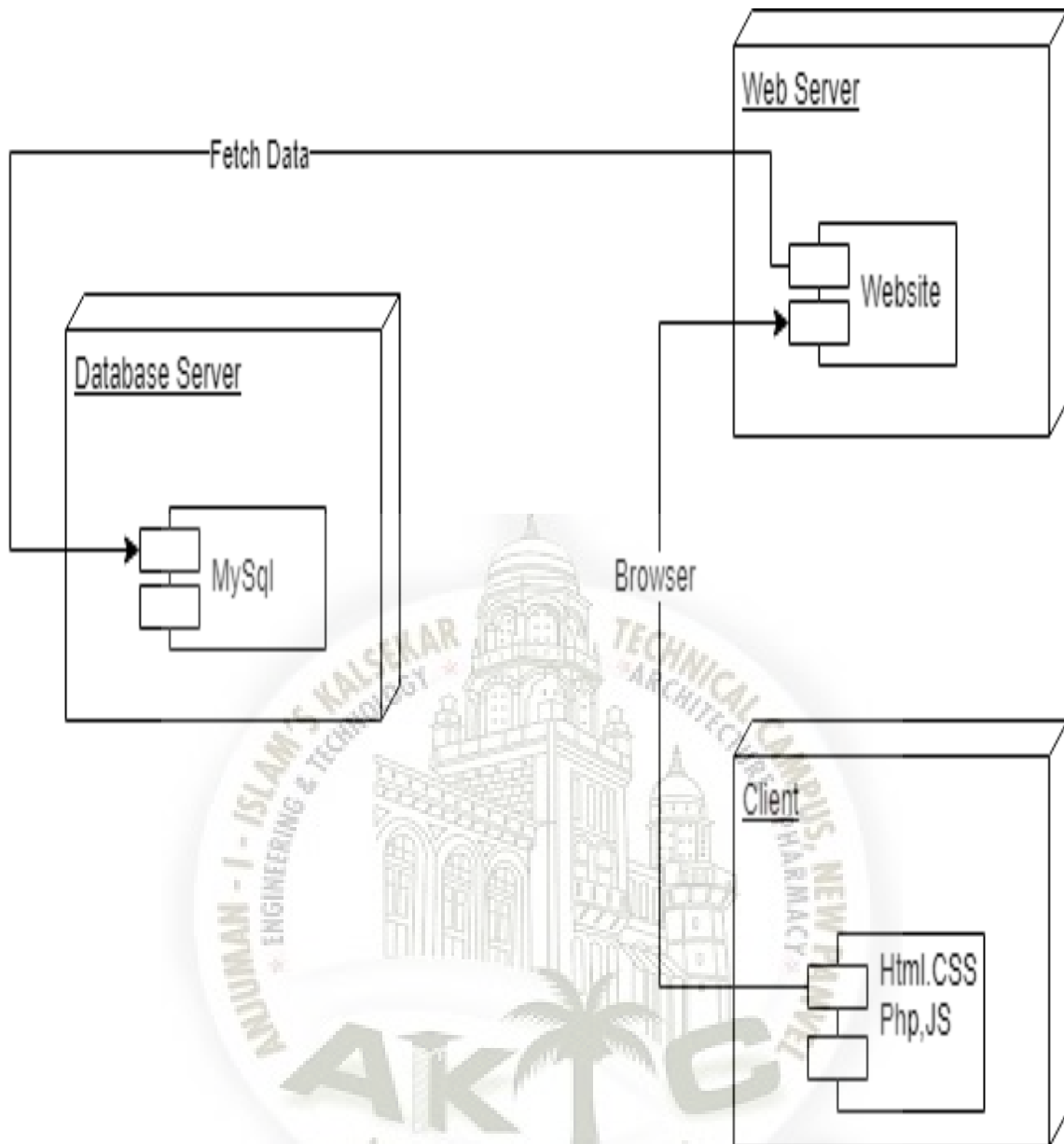
Figure 5.16: Deployment Diagram

Chapter 6

Implementation

6.1   Admin Login Panel

This is the admin login page, there would be only one admin in the system.

The admin must be trustworthy and should have overall knowledge about all the faculties an students because he will be the one who register everybody and assign faculties to students..

Figure 6.1: Admin Login Page

```
1  Code:
2  <div class="modal fade" id="login" role="dialog">
3      <div class="modal-dialog modal-sm">
4
5        <!-- Modal content no 1-->
6        <div class="modal-content">
7          <div class="modal-header">
8            <button type="button" class="close" data-dismiss="modal">&times;</
                 button>
9            <h4 class="modal-title text-center form-title">Login</h4>
10         </div>
11         <div class="modal-body padtrbl">
```
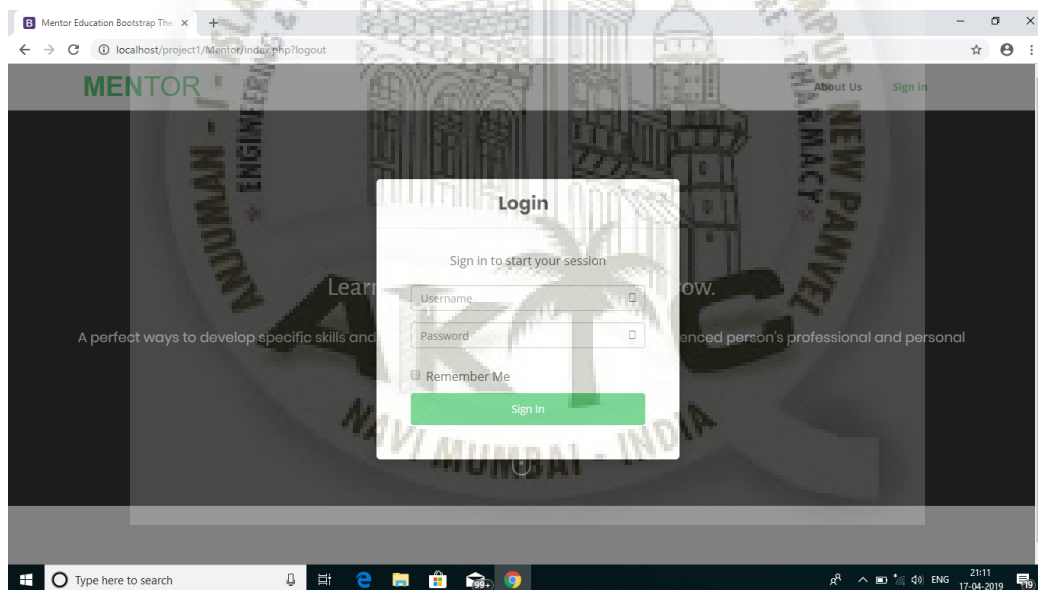
```
12
13            <div class="login-box-body">
14              <p class="login-box-msg">Sign in to start your session </p>
15              <div class="form-group">
16                <form method="post" id="loginForm">
17                  <div class="form-group has-feedback">
18                    <!----- username ---------------->
19                    <input class="form-control" placeholder="Username" id="loginid
                        " name="username" type="text" autocomplete="off" />
20                    <span style="display:none;font-weight:bold; position:absolute;
                        color: red;position: absolute;padding:4px;font-size: 11px;
                        background-color:rgba(128, 128, 128, 0.26);z-index: 17;
                        right: 27px; top: 5px;" id="span_loginid"></span>
21                    <!---Alredy exists ! -->
22                    <span class="glyphicon glyphicon-user form-control-feedback"
                        ></span>
23                  </div>
24                  <div class="form-group has-feedback">
25                    <!----- password ---------------->
26                    <input class="form-control" placeholder="Password" name="
                        password" id="loginpsw" type="password" autocomplete="off"
                        />
27                    <span style="display:none;font-weight:bold; position:absolute;
                        color: grey;position: absolute;padding:4px;font-size: 11px
                        ;background-color:rgba(128, 128, 128, 0.26);z-index: 17;
                        right: 27px; top: 5px;" id="span_loginpsw"></span>
28                    <!---Alredy exists ! -->
29                    <span class="glyphicon glyphicon-lock form-control-feedback"
                        ></span>
30                  </div>
31                  <div class="row">
32                    <div class="col-xs-12">
33                      <div class="checkbox icheck">
34                        <label>
35                              <input type="checkbox" name="remember_me" id="
                              loginrem" > Remember Me
36                        </label>
37                      </div>
38                    </div>
39                    <div class="col-xs-12">
40                      <button type="submit" class="btn btn-green btn-block btn-
                          flat" name="login" onclick="userlogin()">Sign In </button
                          >
41                    </div>
42                  </div>
43                </form>
44              </div>
45            </div>
46          </div>
47        </div>
48
49      </div>
50    </div>
```

6.2 Faculty Registration

The admin will be responsible for registering the faculties.The admin will provide the user id and password to all the faculties.

The registered data about the faculties will be automatically stored in the Database along with the user id and password.

Figure 6.2: Faculty Registration

```php
1    Code :
2
3  <?php
4
5    if (isset($_POST['btn_sub'])) {
6
7  $firstname=$_POST['fnametxt'];
8  $lastname=$_POST['lnametxt'];
9  $gender=$_POST['gender'];
10 $phone_no=$_POST['phonetxt'];
11 $email=$_POST['emailtxt'];
12 $password=$_POST['password'];
13 $Qualification=$_POST['degree'];
14 $department=$_POST['department'];
15
16 $filename=$_FILES["uploadfile"] ["name"];
17 $tempname=$_FILES["uploadfile"] ["tmp_name"];
18
19 $picsource="facultyimg/".$filename;
20  move_uploaded_file($tempname, $picsource);
21
22
```

```
23    $sql="INSERT INTO project VALUES (NOT NULL,'$firstname','$lastname','$gender','
          $phone_no','$email','$password','$Qualification','$department','$picsource
          ')";
24
25
26  $data = mysqli_query($conn,$sql);
27
28  }
29
30  ?>
31
32  <?php
33
34  }
35  else
36   {
37    exit('direct access not allowed');
38  }
```

6.3   Student Registration

The registration of students will be done by the admin, admin will provide the user id and password to the students for login.

All the information inserted by the admin during the registration process will be stored in the database automatically along with the user id and password

Figure 6.3: Student Registration Panel

```
1   Code :
2
3   <?php
4
5     if ( isset ($_POST [ 'btn_sub' ])) {
6
7   $firstname=$_POST [ 'fnametxt' ];
8   $lastname=$_POST [ 'lnametxt' ];
9   $gender=$_POST [ 'gender' ];
10  $phone_no=$_POST [ 'phonetxt' ];
11  $email=$_POST [ 'emailtxt' ];
12  $password=$_POST [ 'password' ];
13  $Qualification=$_POST [ 'degree' ];
14  $department=$_POST [ 'department' ];
15
16  $filename=$_FILES [ "uploadfile" ]  [ "name" ];
17  $tempname=$_FILES [ "uploadfile" ]  [ "tmp_name" ];
18
19  $picsource=" facultyimg / " . $filename ;
20   move_uploaded_file ($tempname ,  $picsource );
21
22
```

```
23    $sql="INSERT INTO student VALUES (NOT NULL,'$firstname','$lastname','$gender','
         $phone_no','$email','$password','$Qualification','$department','$picsource
         ')";
24
25
26  $data = mysqli_query($conn,$sql);
27
28  }
29
30  ?>
31
32  <?php
33
34  }
35  else
36   {
37     exit('direct access not allowed');
38  }
```

6.4   View Doubt/Reply

In this module Faculty can view doubts asked to them by their students

In this module the faculty as well can reply to the doubts asked by the students.
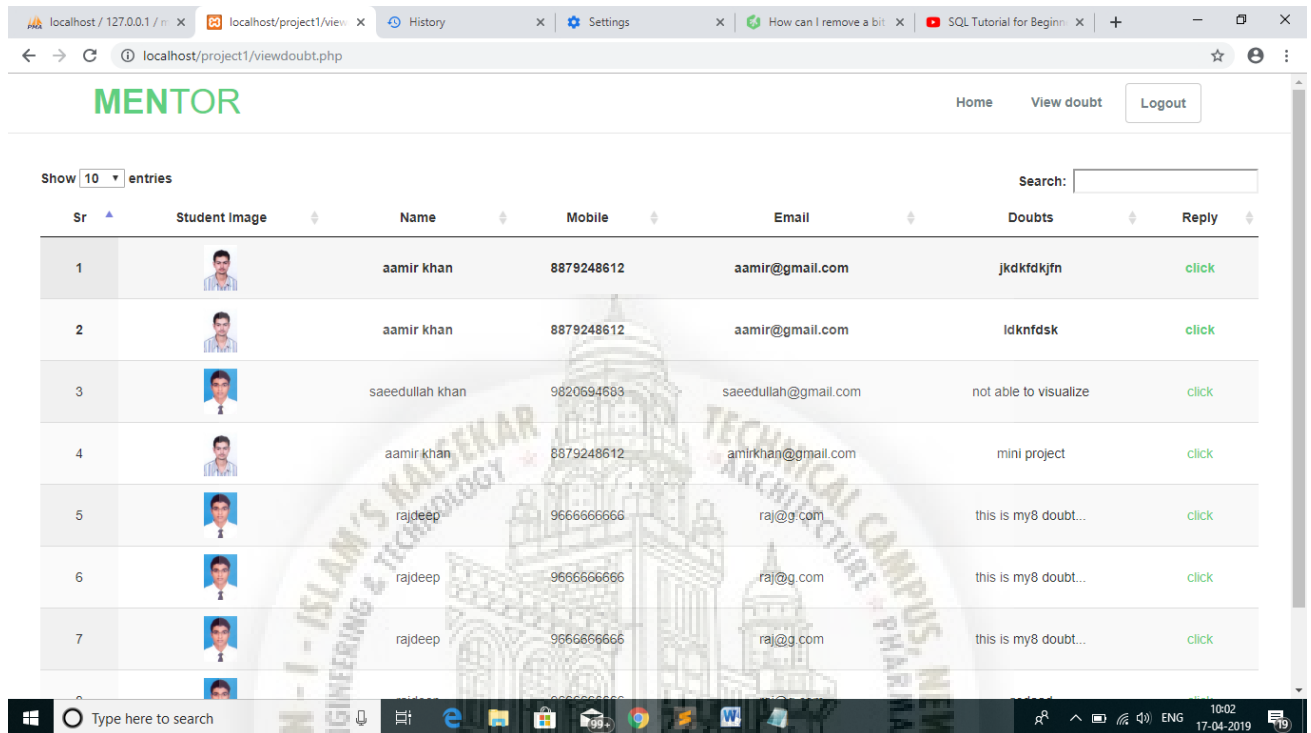
Figure 6.4: View Doubts

```
1    Code :
2
3
4    <?php
5    session_start();
6    $facultyID = $_SESSION['id'];
7
8    $sql="SELECT * FROM `student` WHERE `f_id`= $facultyID";
9    $result = mysqli_query($conn,$sql);
10   $resultcheck=mysqli_num_rows($result);
11   ?>
12   <div id="table_div">
13   <table id="myTable" class="display">
14     <thead>
15       <tr>
16         <th>Sr</th>
17         <th>Student Image</th>
18         <th>Name</th>
19         <th>Mobile</th>
20         <th>Email</th>
21         <th>Doubts</th>
22         <th>Reply</th>
23       </tr>
24     </thead>
25     <tbody>
26
```

```php
27      <?php
28
29      if(isset($_SESSION['id'])){
30        $sId = $_SESSION['id'];
31        $q = "SELECT *, s.`picsource` FROM `doubt` AS d INNER JOIN `student` AS S
              ON s.student_id = d.`Stud_ID` AND d.`faculty_id` = $sId ORDER BY d.`
              doubt_id` DESC";
32        $result = mysqli_query($conn,$q);
33        $i=0;
34        while($row = mysqli_fetch_assoc($result)){
35          $i++;
36
37          if($row['status']==0)
38          {
39            $bold = "style='font-weight: bold'";
40          }
41          else {
42            $bold = "";
43          }
44          ?>
45          <tr <?php echo $bold; ?> >
46
47            <td ><?php echo $i; ?></td>
48            <td ><img src="<?php echo $row['picsource'] ?>" alt=""></td>
49            <td ><?php echo $row['student_name'] ?></td>
50            <td ><?php echo $row['Mobile'] ?></td>
51            <td ><?php echo $row['Email'] ?></td>
52            <td ><?php echo $row['Doubts'] ?></td>
53            <td ><?php echo "<a href='reply.php?id=$row[doubt_id]'>click </a>"
                ; ?></td>
54        </tr>
55        <?php   } } ?>
56      </tbody>
57    </table>
58  </div>
```

Figure 6.5: View Reply

```
1    Code:
2
3    <?php
4
5    include_once 'database.php';
6    error_reporting(0);
7    session_start();
8    if(isset($_SESSION['type'])&&$_SESSION['type']=="project") {
9
10
11   ?>
12
13   <!DOCTYPE html>
14   <html>
15   <head>
16     <title></title>
17       <meta charset="utf-8">
18     <meta name="viewport" content="width=device-width, initial-scale=1">
19     <title>Mentoring system</title>
20
21     <link rel="stylesheet" type="text/css" href="https://fonts.googleapis.com/css?
            family=Open+Sans|Candal|Alegreya+Sans">
22     <link rel="stylesheet" type="text/css" href="css/font-awesome.min.css">
23     <link rel="stylesheet" type="text/css" href="css/bootstrap.min.css">
24     <link rel="stylesheet" type="text/css" href="css/imagehover.min.css">
25     <link rel="stylesheet" type="text/css" href="css/style.css">
26     <link rel="stylesheet" href="https://cdn.datatables.net/1.10.19/css/jquery.
            dataTables.min.css">
27
28     <style>
29       #myTable th,#myTable td {
30         text-align: center;
31       }
32       #table_div{
```

```
33        margin: auto;
34        width: 95%;
35      }
36      #myTable img{
37        width: 10%;
38      }
39
40    </style>
41
42  </head>
43  <body>
44
45      <nav class="navbar navbar-default navbar-fixed-top">
46      <div class="container">
47        <div class="navbar-header">
48          <button type="button" class="navbar-toggle" data-toggle="collapse" data-target="#myNavbar">
49            <span class="icon-bar"></span>
50            <span class="icon-bar"></span>
51            <span class="icon-bar"></span>
52          </button>
53          <a class="navbar-brand" href="index.html">Men<span>tor </span></a>
54        </div>
55        <div class="collapse navbar-collapse" id="myNavbar">
56          <ul class="nav navbar-nav navbar-right">
57            <li><a href="facultyknow.php">Home</a></li>
58            <li><a href="viewdoubt.php">View doubt </a></li>
59            <li>  <a href="logout.php" class="btn btn-default btn-large">Logout <i
                  class="icon-white icon-check"></i></a></li>
60
61          </ul>
62        </div>
63      </div>
64    </nav>
65
66
67  <br>
68  <br>
69  <br>
70  <br>
71  <br>
72
73
74
75    <?php
76    session_start();
77    $facultyID = $_SESSION['id'];
78
79    $sql="SELECT * FROM `student` WHERE `f_id`= $facultyID";
80    $result = mysqli_query($conn, $sql);
81    $resultcheck=mysqli_num_rows($result);
82  ?>
83
84
85  <div id="row" style="margin-left:140px;">
86
87
88      <?php
89
90      if(isset($_SESSION['id'])&&isset($_GET['id'])){
91        $sId = $_SESSION['id'];
```

```php
92      $q = "SELECT *, s.`picsource` FROM `doubt` AS d INNER JOIN `student` AS S
           ON s.student_id = d.`Stud_ID` AND d.`faculty_id` = $sId AND d.`
           doubt_id`=$_GET[id] ORDER BY d.`doubt_id` DESC ";
93      $result = mysqli_query($conn,$q);
94      $i=0;
95      while($row = mysqli_fetch_assoc($result)){
96        $i++;
97        ?>
98
99      <img src="<?php echo $row['picsource'] ?>" width="200" alt="Student Image"
           ><br><br>
100     <b>Student Name:</b> <?php echo $row['student_name'] ?><br>
101     <b>Mobile:</b> <?php echo $row['Mobile'] ?><br>
102     <b>Email:</b> <?php echo $row['Email'] ?><br>
103     <b>Doubts:</b> <?php echo $row['Doubts'] ?><br>
104     <form method="post">
105     <b>Reply:</b> <br>
106     <textarea name="reply" id="reply" cols="60" rows="5"></textarea><br>
107     <button type="submit" name="submitreply">SUBMIT REPLY</button>
108     </form>
109     <br>
110
111     <?php    } } ?>
112
113 </div>
114
115 <?php
116
117 if (isset($_POST['submitreply'])) {
118
119 $reply=$_POST['reply'];
120 $quesID = $_GET['id'];
121
122 $sql="INSERT INTO `reply` (`ques_id`, `reply`,`replytime`) VALUES ($quesID,'
       $reply',NOW())";
123 $data = mysqli_query($conn,$sql);
124
125 if ($data==true) {
126   echo "data inserted successfully";
127   $sql="UPDATE `doubt` SET `status`=1 WHERE `doubt_id`=$quesID";
128   $data = mysqli_query($conn,$sql);
129   echo "<script>window.location.assign('viewdoubt.php')</script>";
130 }
131
132 else{
133   echo "not inserted";
134 }
135
136 }
137 ?>
138
139 </body>
140 </html>
```

6.5 Ask Doubt/View Answer

In this module the students can ask doubts to thier respected faculties and the data will be stored in the database

The student can view the replies they got from the faculties to their questions.

Figure 6.6: Ask Doubts

```
1    Code :
2
3    <?php
4
5  // echo $_SESSION['id'];
6
7  $userprofile=$_SESSION['id'];
8
9
10 $query="SELECT s.*, CONCAT(p.firstname,' ',p.lastname) AS facultyname FROM '
        student ' AS s INNER JOIN project AS p ON p.faculty_id = s.'f_id' AND
        student_id='$userprofile'";
11 $data=mysqli_query($conn,$query);
12
13 $result=mysqli_fetch_assoc($data);
14
15 $img= $result['picsource'];
16 ?>
17 <div class="jumbotron">
18 <?php
19 echo "<img src='$img' height='75' width='75'>  ";
20 echo $result['firstname']; echo " ";
21 echo $result['lastname'];
22
```

```
23    ?>
24  </div>
25  </center>
26
27      <form  style="margin-left: 400px;"  class="form-horizontal"  method="post">
28   <div  class="form-group">
29     <label  class="control-label col-lg-2" >Assigned  Faculty:</label>
30     <div  class="col-lg-3">
31        <input type="text"  class="form-control"  id=""  value="<?php echo $result['
            facultyname'] ?>"  name="facultyname"  placeholder="Faculty name"
            readonly>
32     </div>
33   </div>
34   <div  class="form-group">
35     <label  class="control-label col-lg-2" >student  name:</label>
36     <div  class="col-lg-3">
37        <input type="text"  class="form-control"  id=""  value="<?php echo $result['
            firstname']." ".$result['lastname'] ?>"  name="name"  placeholder="Enter
             name">
38     </div>
39   </div>
40    <div  class="form-group">
41     <label  class="control-label col-lg-2" >Mobile:</label>
42     <div  class="col-lg-3">
43        <input type="text"  class="form-control"  id="pwd"  value="<?php echo $result
            ['phone_no']; ?>"  name="mobile"  placeholder="">
44     </div>
45   </div>
46
47  <div  class="form-group">
48     <label  class="control-label col-lg-2" >Email:</label>
49     <div  class="col-lg-3">
50        <input type="text"  class="form-control"  value="<?php echo $result['email
            ']; ?> "  name="email">
51     </div>
52   </div>
53
54
55  <div  class="form-group">
56     <label  class="control-label col-lg-2">Gender:</label>
57     <div  class="col-lg-3">
58        <input type="radio"  value="male" <?php if ($result["gender"]=='Male') {
59        echo "checked";
60        # code ...
61        }?> name="gender"> <span  class="p_font"> Male</span>
62
63        <input type="radio"  value="female" <?php if ($result["gender"]=='Female')
            {
64        echo "checked";
65        # code ...
66        }?> name="gender"> <span  class="p_font"> Female</span>
67     </div>
68   </div>
69
70  <div  class="form-group">
71     <label  class="control-label col-lg-2" >Department:</label>
72     <div  class="col-lg-3">
73        <input type="text"  class="form-control"  id="pwd"  value="<?php echo $result
            ['department']; ?>"  name="department"  placeholder="Enter department">
74     </div>
75   </div>
```

```
76    <div class="form-group">
77     <label class="control-label col-lg-2" >Doubts:</label>
78     <div class="col-lg-3">
79       <textarea class="form-control" name="doubts" rows="5"></textarea>
80     </div>
81   </div>
82
83   <div class="form-group">
84     <div class="col-lg-offset-2 col-lg-3">
85       <button type="submit" class="btn btn-success" name="login">Submit</button>
86     </div>
87   </div>
88 </form>
89 </body>
90 </html>
91
92 <?php
93 session_start();
94 $stud_id = $_SESSION['id'];
95
96 if (isset($_POST['login'])) {
97
98 $stud_name=$_POST['name'];
99 $mobile=$_POST['mobile'];
100 $email=$_POST['email'];
101 $gender=$_POST['gender'];
102 $department=$_POST['department'];
103 $doubts=$_POST['doubts'];
104
105 $q ="SELECT `f_id` FROM `student` WHERE `student_id` = $stud_id";
106 $res = mysqli_query($conn,$q);
107 $row = mysqli_fetch_row($res);
108
109 $sql="INSERT INTO doubt VALUES ('','$stud_id','$row[0]','$stud_name','$mobile','
      $email','$gender','$department','$doubts',0)";
110
111 $data = mysqli_query($conn,$sql);
112
113
114 if ($data==true) {
115
116   echo "data inserted successfully";
117   # code...
118 }
119
120 else{
121
122   echo "not inserted";
123 }
124 }
125 ?>
126
127 <?php
128 }
129
130 else {
131   echo"direct access not allowed";
132   # code...
133 }
134  ?>
```

Figure 6.7: View Answer

```php
1   <?php
2   include_once 'database.php';
3   error_reporting(0);
4
5   session_start();
6   if (isset($_SESSION['type'])&&$_SESSION['type']=="student"){
7   ?>
8
9   <!DOCTYPE html>
10  <html>
11  <head>
12    <title></title>
13
14  <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.0/css
        /bootstrap.min.css">
15    <link rel="stylesheet" type="text/css" href="https://fonts.googleapis.com/css?
          family=Open+Sans|Candal|Alegreya+Sans">
16    <link rel="stylesheet" type="text/css" href="css/font-awesome.min.css">
17    <link rel="stylesheet" type="text/css" href="css/bootstrap.min.css">
18    <link rel="stylesheet" type="text/css" href="css/imagehover.min.css">
19    <link rel="stylesheet" type="text/css" href="css/style.css">
20     <link rel="stylesheet" href="https://cdn.datatables.net/1.10.19/css/jquery.
          dataTables.min.css">
21
22  </head>
23  </head>
24  <body>
25  <nav class="navbar navbar-default navbar-fixed-top">
26      <div class="container">
27        <div class="navbar-header">
28          <button type="button" class="navbar-toggle" data-toggle="collapse" data-
               target="#myNavbar">
29            <span class="icon-bar"></span>
30            <span class="icon-bar"></span>
```

```
31            <span class="icon-bar"></span>
32          </button>
33          <a class="navbar-brand" href="index.html">Men<span>tor </span></a>
34        </div>
35        <div class="collapse navbar-collapse" id="myNavbar">
36          <ul class="nav navbar-nav navbar-right">
37  <!--         <li><a href="../addfaculty.php">Home</a></li>
38   -->
39              <li><a href="doubt.php">Home</a></li>
40  <!--         <li><a href="doubt.php">Doubt</a></li>
41   -->            <li><a href="viewanswer.php">view Answer</a></li>
42          <li>  <a href="logout.php" class="btn btn-default btn-large">Logout <i
                 class="icon-white icon-check"></i></a></li>

43
44          </ul>
45        </div>
46      </div>
47    </nav>
48    <br>
49    <br>
50    <br>
51    <br>
52    <br>
53    <br>
54
55  <?php
56    session_start();
57    $facultyID = $_SESSION['id'];
58
59    $sql="SELECT * FROM `student` WHERE `f_id` = $facultyID";
60    $result = mysqli_query($conn,$sql);
61    $resultcheck=mysqli_num_rows($result);
62  ?>
63
64
65  <div id="table_div">
66  <table id="myTable" class="display">
67    <thead>
68      <tr>
69        <th>Sr</th>
70        <th>Doubts</th>
71        <th>Answer</th>
72        <th>Reply Time</th>
73      </tr>
74    </thead>
75    <tbody>
76
77      <?php
78
79      if(isset($_SESSION['id'])){
80        $sId = $_SESSION['id'];
81        $q = "SELECT d.`Doubts`, r.`reply`,r.`replytime` FROM `doubt` AS d INNER
               JOIN `reply` AS r ON d.`doubt_id` = r.`ques_id` AND d.`Stud_ID`=$sId";
82        $result = mysqli_query($conn,$q);
83        $i=0;
84        while($row = mysqli_fetch_assoc($result)){
85          $i++;
86          ?>
87
88
89
```

```
90          <tr>
91            <td ><?php echo $i; ?></td>
92            <td ><?php echo $row['Doubts'] ?></td>
93            <td ><?php echo $row['reply'] ?></td>
94            <td ><?php echo Date("d M Y h:i:s a",strtotime($row['replytime']))
                ?></td>
95          </tr>
96
97      <?php    } } ?>
98        </tbody>
99      </table>
100     </div>
101    <script src="https://code.jquery.com/jquery-3.3.1.js"></script>
102    <script src="https://cdn.datatables.net/1.10.19/js/jquery.dataTables.min.js"
            ></script>
103
104    <script>
105
106        $(document).ready( function () {
107          $('#myTable').DataTable({
108            // 'info':false,
109            // 'paginate':false,
110          });
111        } );
112    </script>
113
114   </body>
115   </html>
116
117   <?php
118
119   }
120
121   else {
122
123     echo "direct access is not allowed";
124   }
125   ?>
```

Chapter 7

System Testing

The Student must be able to send the message(doubts) to the assigned faculty and the faculty must be able to see the students message and must be able to reply on it.

7.1   Test Cases and Test Results

Test ID	Test Case Title	Test Condition	System Behavior	Expected Result
T01	Student sends message to faculty	Message must be appropriate and in english language	message is stored in database	message must be delivered to the assigned faculty
T02	Faculty must be able to see the messages from the students	new messages msut be on the top	messages must be stored in db	new messages must be seen in dark
T03	Faculty must be able to reply on the students query	message must be easy language understood by the student	messages must be stored in db	reply must be sent back to the student.

7.2   Sample of a Test Case

Title: Login Page – Authenticate Successfully done by the system
Description: A registered user should be able to successfully login to the system.

   Precondition: the user must already be registered with an userid and password.

   Assumption: a supported browser is being used.

Test Steps:

1. Navigate to student end

2. Enter the username given by the admin

3. Click the 'Next' button.

4. Enter the password given by the admin

5. Click 'Sign In'

Expected Result: A login page displaying the faculty assigned to them and send message to faculty will be displayed.

Actual Result: The reply from the faculty will be displayed in the view answer column.
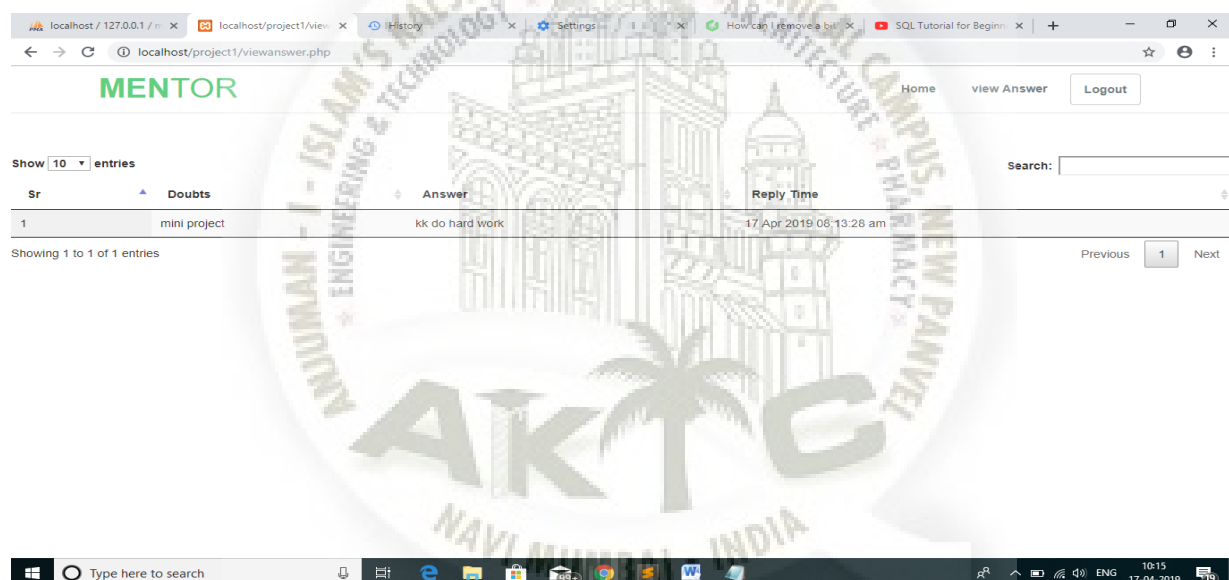
7.2.1 Software Quality Attributes

Specify any additional quality characteristics for the product that will be important to either the customers or the developers. Some to consider are: adaptability, availability, correctness, flexibility, interoperability, maintainability, portability, reliability, reusability, robustness, testability, and usability. Write these to be specific, quantitative, and verifiable when possible. At the least, clarify the relative preferences for various attributes, such as ease of use over ease of learning.
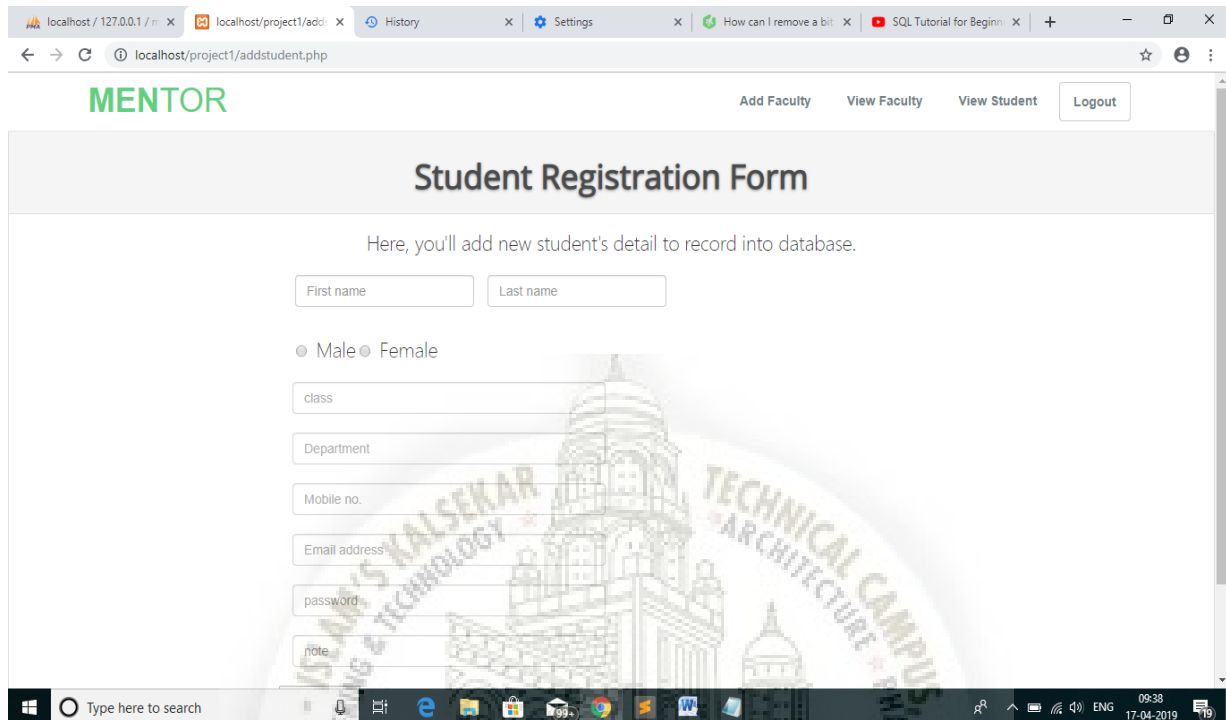
Chapter 8

Screenshots of Project
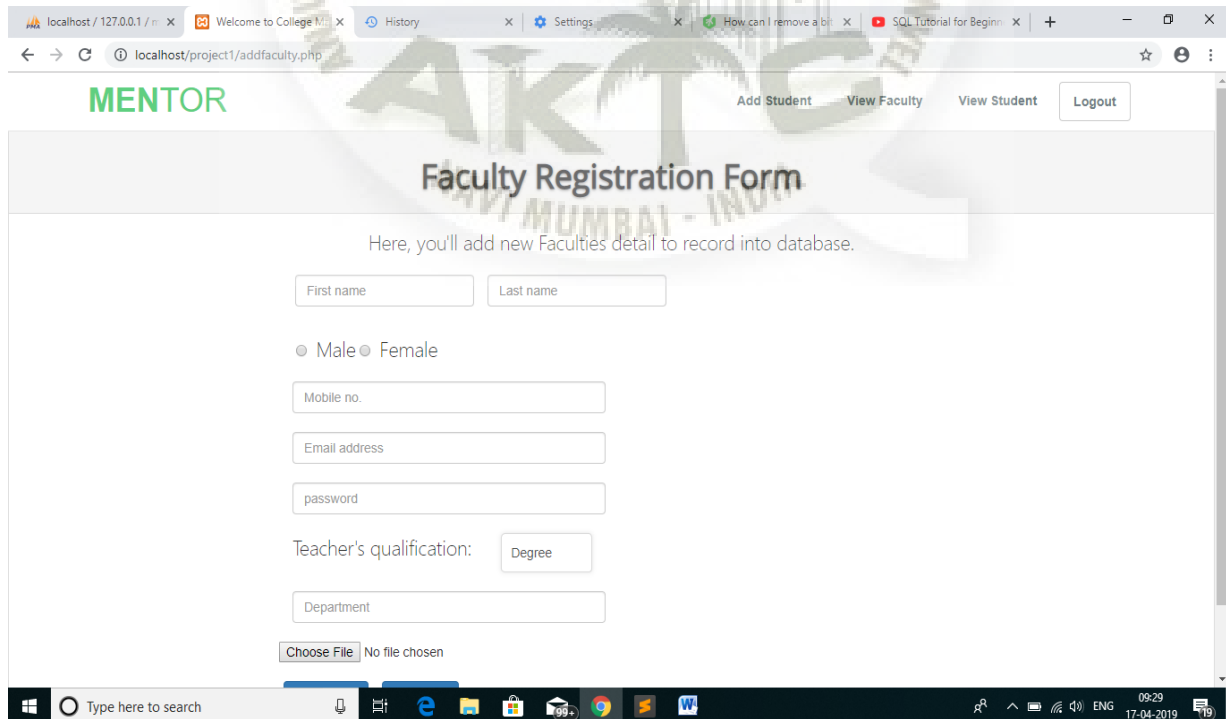
8.1   Admin Panel Login
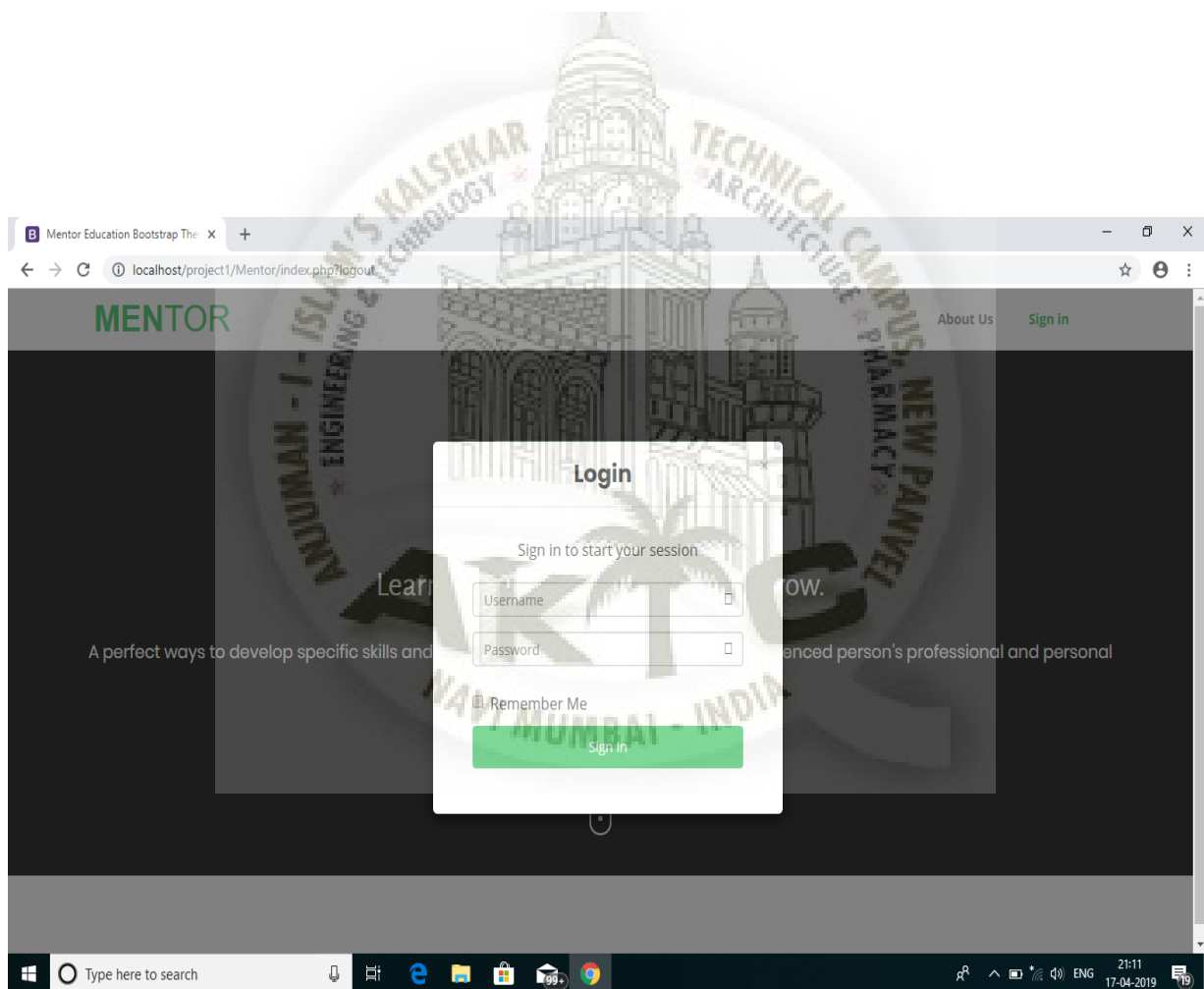
8.2   Student/Faculty Registration

8.3 View Student/Faculty

8.4 View Doubts,Reply

8.5   Ask Doubts, View Answer

Chapter 9

Conclusion and Future Scope

9.1 Conclusion

This system is meant to automate and supplement the current mentoring process and knowledge sharing and managing process to provide greater opportunities and access to knowledge transfer for overall growth of the institute as well as peoples of the institute.

9.2 Future Scope

- As in our project we are developing an Online Mentoring System that will help the traditional mentoring process to upgrade to new level of E-Mentoring.

- Our future scope is that as this project is Intr-Organisational and has the organization as its limit

- We will try to overcome this and take this system on such a extend that it can work Inter-Organizationally.

- Peoples at different Organization can share a same platform for mentoring process.

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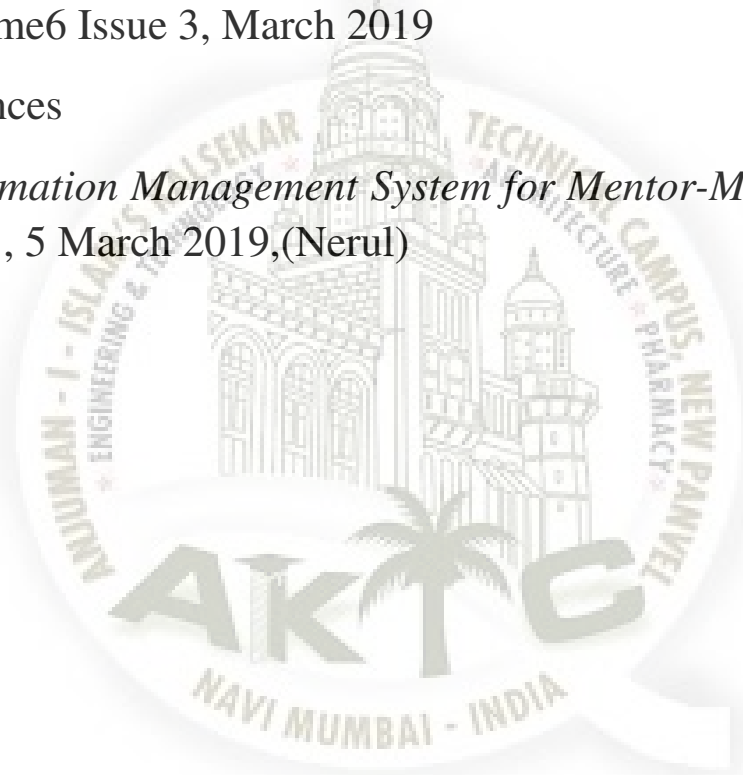
Achievements

1. Publications

    (a) *Information Management System for Mentor-Mentee*; International Research Journal of Engineering and Technology(IRJET) Volume6 Issue 3, March 2019

2. Conferences

    (a) *Information Management System for Mentor-Mentee*; Avalon TEC , 5 March 2019,(Nerul)

International Research Journal of Engineering and Technology (IRJET)

(An ISO 9001 : 2008 Certified Journal)

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