



Project Report On “Student Mentoring Management System”

Submitted in partial fulfillment for the award of

Post Graduate Diploma in Advanced Computing

Presented by:

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**INSTITUTE FOR ADVANCED COMPUTING AND SOFTWARE
DEVELOPMENT (IACSD), Pune.**

ACKNOWLEDGEMENT

This project “**Student - Mentoring Management System**” was truly a great learning experience for us and we are submitting this work to Advanced Computing Training School (IACSD PUNE).

We are very glad to mention the name of IACSD for valuable guidance to work on this project. Institute guidance and support helped us to overcome various obstacles and intricacies during project work.

Our heartfelt thanks go to Mr. Prashant Karhale, our Center Coordinator, C-DAC who gave all the required support and kind coordination to provide all the necessities to complete the project and throughout the course up to the last day here in IACSD, Pune.

From:

Mr. Sagar Gawali (220341220063)

Mr. Bhushan Gawali (220341220062)

TABLE OF CONTENTS

1.	Introduction...	1
2.	Project Overview...	2
2.1	Purpose...	2
2.2	Scope...	2
2.3	Feasibility...	2
2.3.1	Technical Feasibility...	3
2.3.2	Operational Feasibility...	3
2.3.3	Economical Feasibility...	3
3.	Project Description...	4

3.1	Technology Description...	4
4.	User Classes...	5
4.1	Admin...	5
4.2	Mentor...	5
4.3	Student...	6
5.	Architecture Diagram...	7
6.	Software Requirement Specification...	8
6.1	Sequence in detail...	10
7.	Non-Functional Requirement...	13
8.	Software Quality Attributes...	14
9.	Entity Relationship Diagram...	15
10.	Sequence Diagram...	16
11.	Data Flow Diagram...	18
12.	Activity Diagram...	21
12.1	Admin Activity Diagram...	20
12.2	Mentor Activity Diagram...	21
12.3	Student Activity Diagram...	22
13.	User Interface...	23
13.1	Home Page...	23
13.2	Login Page...	24
13.3	StudentRegistration...	25
13.4	StudentHomePage...	25
13.5	Mentor Assign...	26
13.6	Course Information...	27

13.7	Certificate...	28	
13.8	Batch Details...	28	
13.9	Update Marks.....	29	Student
13.10	About Us...	29	
13.11	Contact Us...	29	
14.	Future Scope...	30	
15.	References...	30	

1. Introduction

Development and securing of excellent human resources under both the internal and external environmental changes are a key deciding factor of national competitiveness. However, due to the best vocational training or career guidance services in college.

The colleges have been playing their role in the transition to the professional world for their students, who consequently can meet the demand from industry. Currently, most colleges provide students with relevant information and vocational guidance via systems such as an on/off-line career information office or consultation center, and an internship. However, since a systematic connection between individual students is made, its effect is utterly limited. Vocational training or career guidance service in the college is good, And thus colleges can play their rightful role in the transition of college students to the professionals' stage after graduation. Therefore, it is considered that college graduates generally can meet the demand from Industry.

The main aim of our project is to ease the method and process to clear the concept to the students with effectiveness. We tried to open up N numbers of ways to conceptualize the learning as fast and effective as possible.

By our method, we have mentor and students, which improves the working of administration as it will help the student to rely on and have a connection with a specific teacher which indeed will result in improvement in student's academics. Also, this leads teachers to teach with ease as there is no pressure to teach more students which is also beneficial in teaching and this improves the overall result.

2. Project Overview

2.1 Purpose

The purpose of this document is to give a detailed description of the requirements for the "Student – Mentoring Management System" software. This software is intended to provide additional functionality of assigning students to the mentor. It will illustrate the purpose and complete declaration for the development of the system. It

will also explain system constraints, interface, and interactions with other external applications

2.2 Scope

The “Student - Mentoring Management System” is a web-based application that helps people to gather and analyze data related to students and mentors and efficiently assigns students to the mentors depending upon the total number of students and available mentors. The application provides functionality to maintain relationships between the two. Users can provide their details as well as course enrolled information using the web portal. This information will act as the basis for the assignment process. All system information is maintained in a database. The application interacts with the MySQL database and performs insertion, update as well as deletion as directed by the user.

2.3 Feasibility

- A feasibility study is an analysis that takes all of a project's relevant factors into account—including economic, technical, and scheduling considerations—to ascertain the likelihood of completing the project successfully.
- A feasibility study is simply an assessment of the practicality of a proposed plan or project.
- The following feasibility studies were conducted to make sure that our software is feasible.

2.3.1 Technical feasibility

As per this study, we found that our choice of technology stack was conducive enough to bring the project to fruition. Irrespective of the system in which our backend ran, the results were as expected and platform dependency was not found. The system catered to the requirement of the end-user.

2.3.2 Operational feasibility

As per this study, we concluded that the system is user-friendly and easy to maintain. The project offers a great deal of user experience and convenience to the target group.

2.3.3 Economical feasibility

As per this study, we concluded that the technology stack we are using in our project is open-sourced, freely available, and well-maintained by the community. This reduces the cost of the system as well as development cost, without compromising the quality of the product. This system was found to be ergonomic to the target customer base.

3. Project Description

3.1 Technology Stack

➤ Backend

Category	Technology Name
Framework	Spring Boot
ORM Tool	Hibernate
Database	MySQL
Build Tool	Maven
Language	Java

➤ Frontend

Category	Technology Name
Framework	REACT-JS
Language	HTML, CSS, JS

4. User classes

4.1 Admin

The superuser, the admin class represents complete authority over the system.

An admin can,

- a. Registers both mentor and student
- b. View the list of students and mentors who have successfully registered in the system.
- c. Deletion of the accounts of mentor and student.
- d. View the progress of the course which has been selected by students.
The progress consists
- e. of tasks performed for each milestone by students related to the course.
- f. Log in and log out for each session.

4.2 Mentor

- a. Guide class represents a user who is responsible for guiding the students through their course phase.
- b. A Guide is registered by the admin. Upon receiving the login credentials into the system, a guide can perform various functionalities. These include,
 - View the list of students who have successfully registered under them.
 - Update the number of students who can be handled (Size of the batch).
 - Update the marks of the student after evaluation.
 - .Login and log out for each session.
 - Signup for the registration.

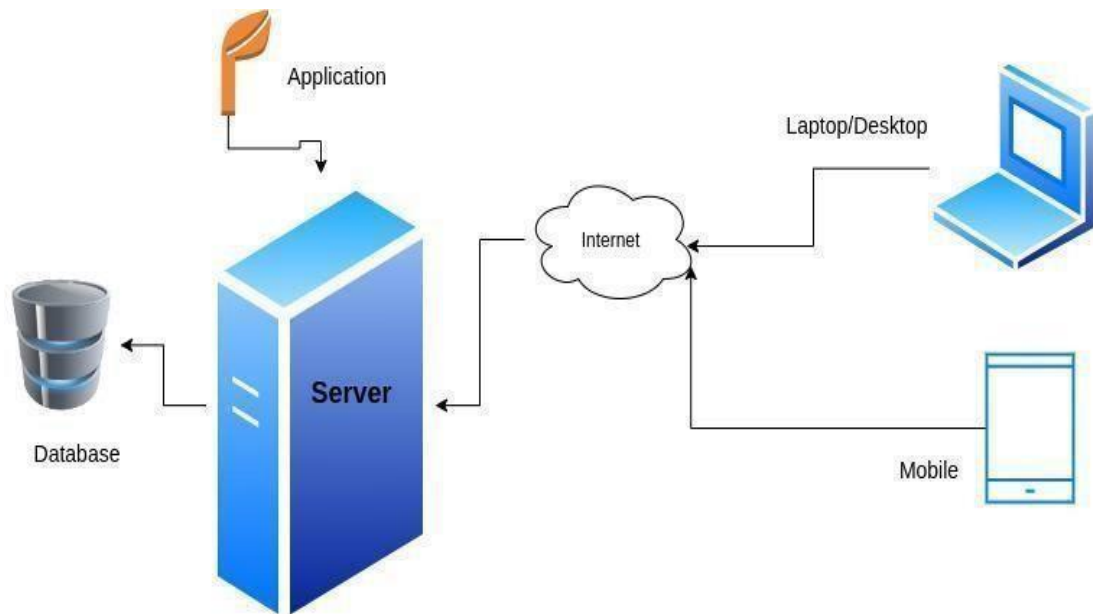
4.3 Student

Once the admin has registered a particular student, he/she can create a project. After project details are properly entered, the student can,

- a) View a list of students who have been assigned to same course yet.
- b) Team members can be selected as decided between themselves.
- c) Once a project has been successfully registered in the system, students can,

- i. Start creating tasks related to that project.
- ii. View progress of their project. iii. Set milestones for tasks that they have created.
- iv. Students can view all the activities taking place in the system like project creation, session start, and end by a guide.

5. Architecture Diagram



6. Software Requirements Specification System:

The following diagram describes the entire flow of the system:

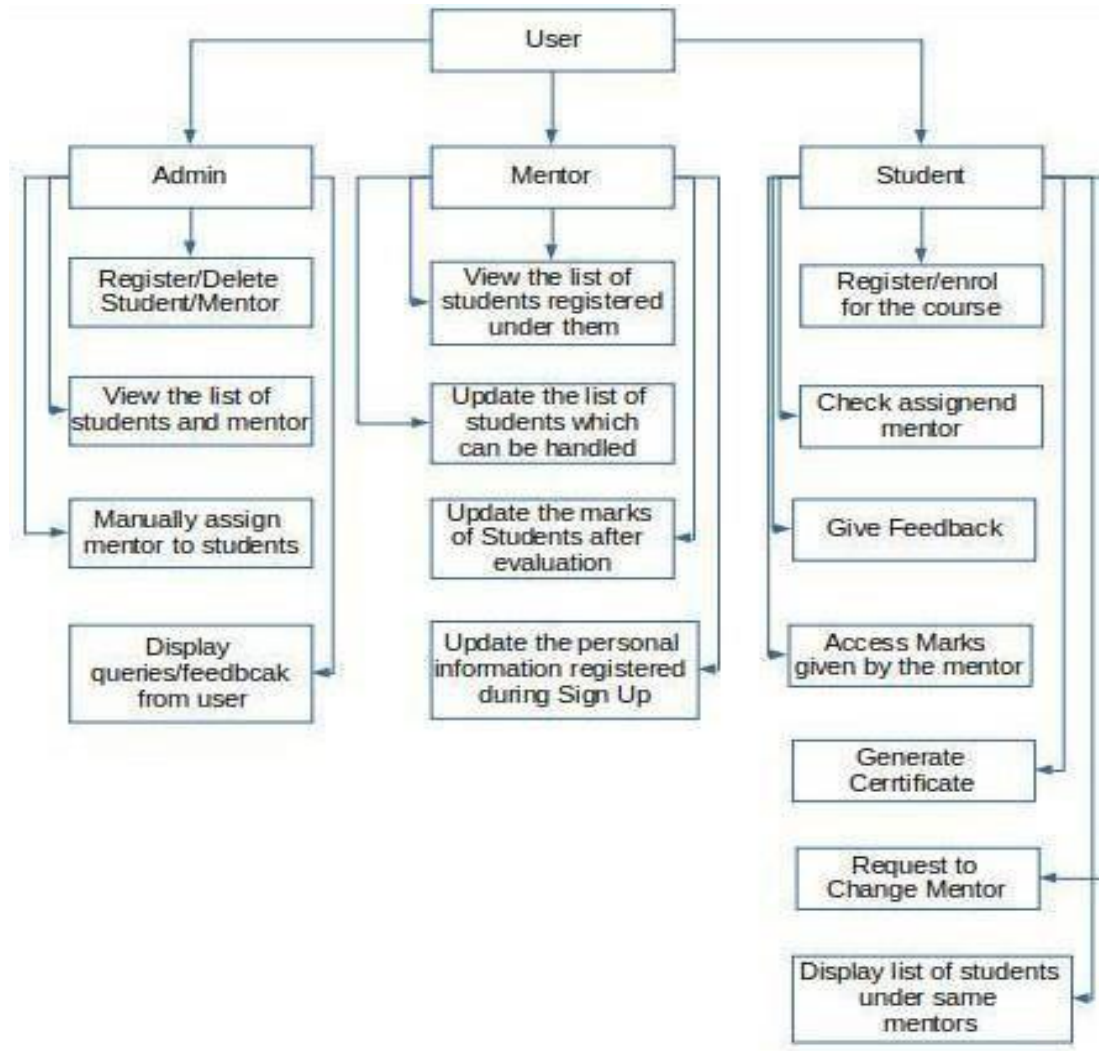


Figure 1: Use case diagram

There is an entry interface that is intended to facilitate the actors [Admin|Mentor|Student] to login into the system provided they have their user account, i.e., already registered with the system. If not then contact Admin for registration as Mentor or Student. The user has to enter the login credentials i.e. EmailId and Password information for login.

◆ Scenario 1: Mainline Sequence

1. **Admin:** Enter Admin Email and Password. **2. System:**

- a) Display the Admin dashboard where the admin can handle students and mentors.
- b) View student and mentor information and activities (progress).

◆ Scenario 2: Mainline Sequence

1. **Mentor:** Once registered, enter Mentor Email and Password.
2. **System:**
 - a) Display the mentor dashboard where the mentor is responsible for guiding the students through their course phase.
 - b) View each student's progress and provide necessary guidance.

◆ Scenario 3: Mainline Sequence

1. **Student:** Once registered, enter Student Email and Password.
2. **System:**
 - a) Sign up for registration
 - b) Display the Student dashboard where a student can view activities provided by the mentor

6.1 Sequence

◆ ADMIN

Mainline Sequence:

1. Admin: Admin logs in.
2. System: Opens admin home page.
3. Admin: Admin Clicks on Profile.
4. System: Opens page and shows admin information.
5. Admin: admin click on delete account.
6. System: admin account will delete.
7. Admin: Course management and clicks on Add course.
8. System: Opens Fill course details form for adding a course.
9. Admin: Clicks on Manage Courses.

10. System: Opens Course List and admin can delete the course.
11. Admin: Admin Clicks on the dropdown Student management and clicks on Student Registration.
12. System: Opens Student Registration from.
13. Admin: Clicks on Manage Student.
14. System: Opens Student List and admin can delete the Student.
15. Admin: Admin Clicks on the dropdown Mentor management and clicks on Mentor Registration.
16. System: Opens Mentor Registration from.
17. Admin: Clicks on Manage Mentor.
18. System: Opens Mentor List and admin can delete the Mentor.
19. Admin: Admin Clicks on dropdown Admin and clicks on Admin Registration.
20. System: Opens Admin Registration from.

◆ Mentor

Mainline Sequence:

1. Mentor: Mentor logs in.
2. System: Opens mentor home page and shows details of the mentor.
3. Mentor: Mentor Clicks on Dropdown profile and clicks on view profile.
4. System: Opens page which shows information about login mentor.
5. Mentor: Mentor clicks on Dropdown profile and clicks on update profile.
6. System: Opens Update information form, mentor can update their information.
7. Mentor: Clicks on Dropdown profile and click on delete account.
8. System: Delete mentor's account and redirect to the login page.
9. Mentor: Clicks on dropdown Student and click on view batch details.

10. System: Opens list of students under mentor and mentor can delete the student.
11. Mentor: Clicks on dropdown Student and click on update marks of students.
12. System: Opens list of students and mentors can give marks to students and can update it.
13. Mentor: Clicks on dropdown Course and click on Course details.
14. System: Opens course details.

◆ STUDENT

Mainline Sequence:

1. Student: Student logs in.
2. System: Opens student home page and shows details of the student.
3. Student: Student Clicks on Dropdown profile and clicks on view profile.
4. System: Opens page which shows information about login student.
5. Student: Student clicks Dropdown Profile and clicks on update profile.
6. System: Opens Update information form student can update their information.
7. System: Delete student account and redirect to the login page.
8. System: Click on the get information button and the student will get the mentor.
9. Student: Clicks on dropdown Mentor and click on mentor information.
10. System: Opens the page which shows the mentor information.
11. Student: Clicks on dropdown Course and click on Course details.
12. System: Opens course details.

7. Non-Functional Requirement

➤ Performance Requirement

1. The time between request and response should be less.
2. Minimum time should be taken by the application to display the result.

3. In case of power failure, the data should be stored in the state that was last saved by the user.

➤ **Security Requirement**

1. Only one active session per user
2. Session timeouts after a specified time using the JWT token.
3. Authorization based on roles on the application and have these roles apply to the specific URL accessed dynamically at run time.
4. Passwords shall never be viewable at the point of entry or at any other time.
5. Students can not update their marks.

8. Software Quality Attributes

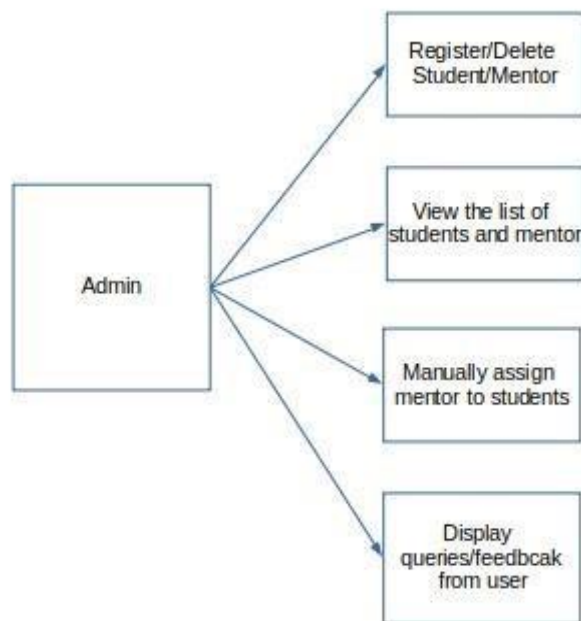
Various software quality attributes were taken into considerations while designing the system:

1. **Availability:** As our Student Mentoring Management System is a web-based service provided to the users, it will be available as long as the server is up.
2. **Interoperability:** Student Mentoring Management System is interoperable on various operating systems, hence, increasing the application's usability and flexibility.
3. **Usability:** The main purpose of developing the Student Mentoring Management System is to create a system for CDAC students so that,
 - a. The entire project life cycle can be tracked, managed, and have accountable to the amount of work being accomplished by each team.
 - b. Track the assistance being provided by the mentor
 - c. Admin can see the progress of all the students in real-time.

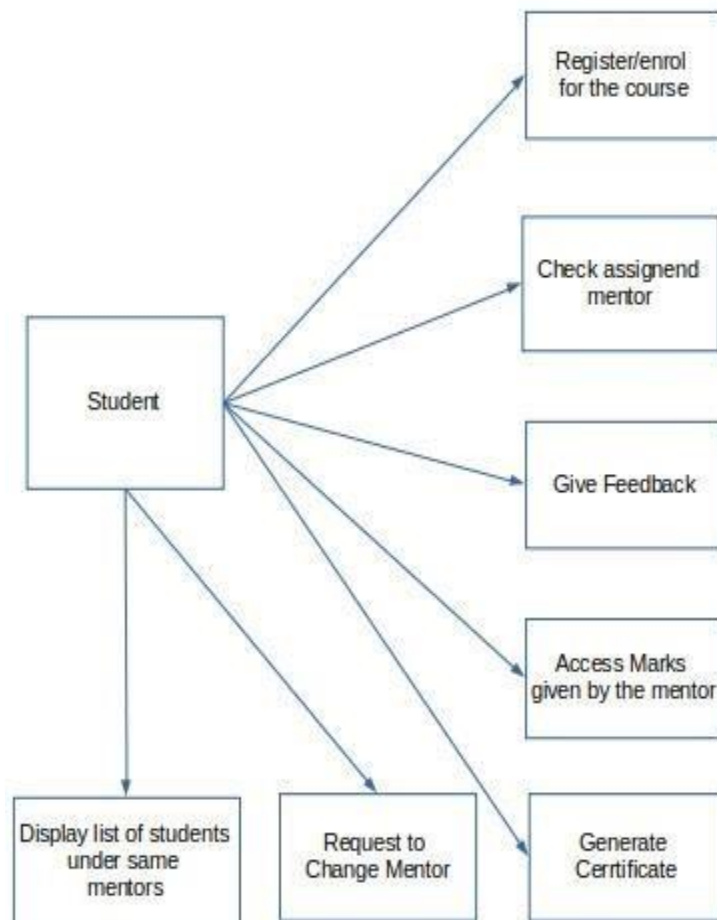
9. Sequence Diagram:

A sequence diagram simply depicts an interaction between objects in a sequential order in which these interactions take place.

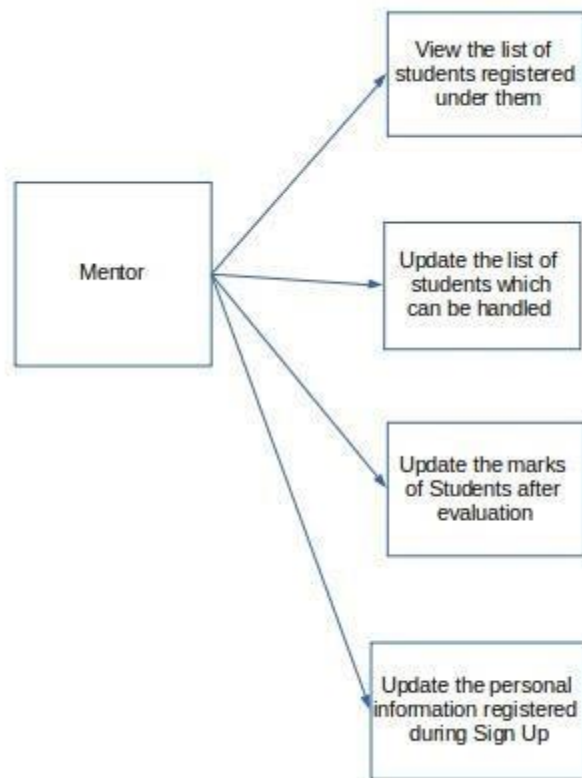
Admin Model:



Student Model:



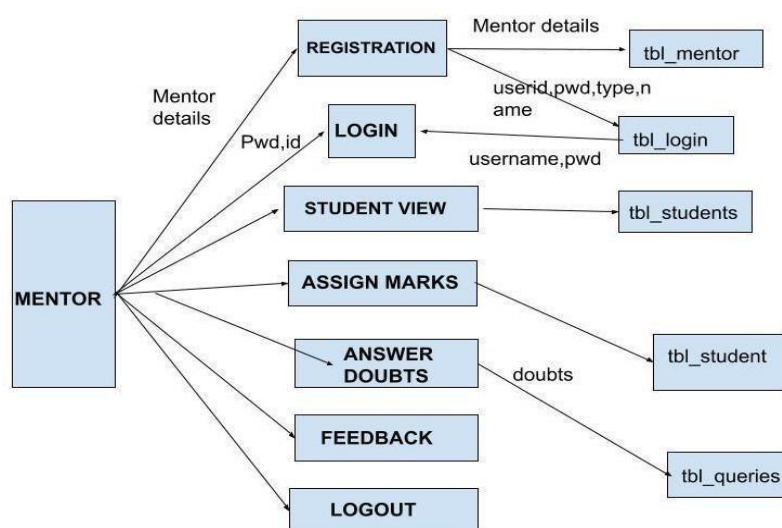
Mentor Model:



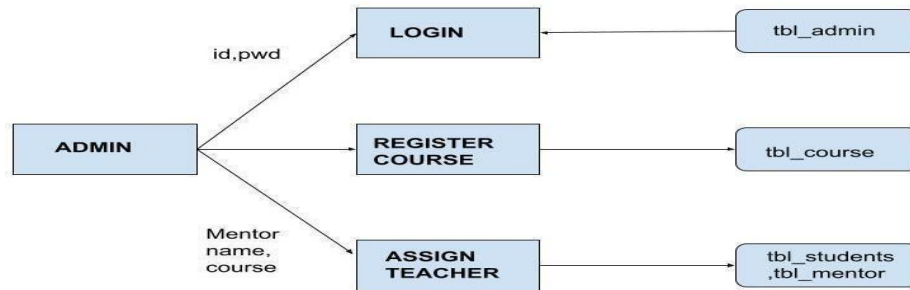
10. Data Flow Diagram:

Data Flow Diagram represents a detailed and well-explained diagram of system components

Level 1 - DFD Mentor Model:



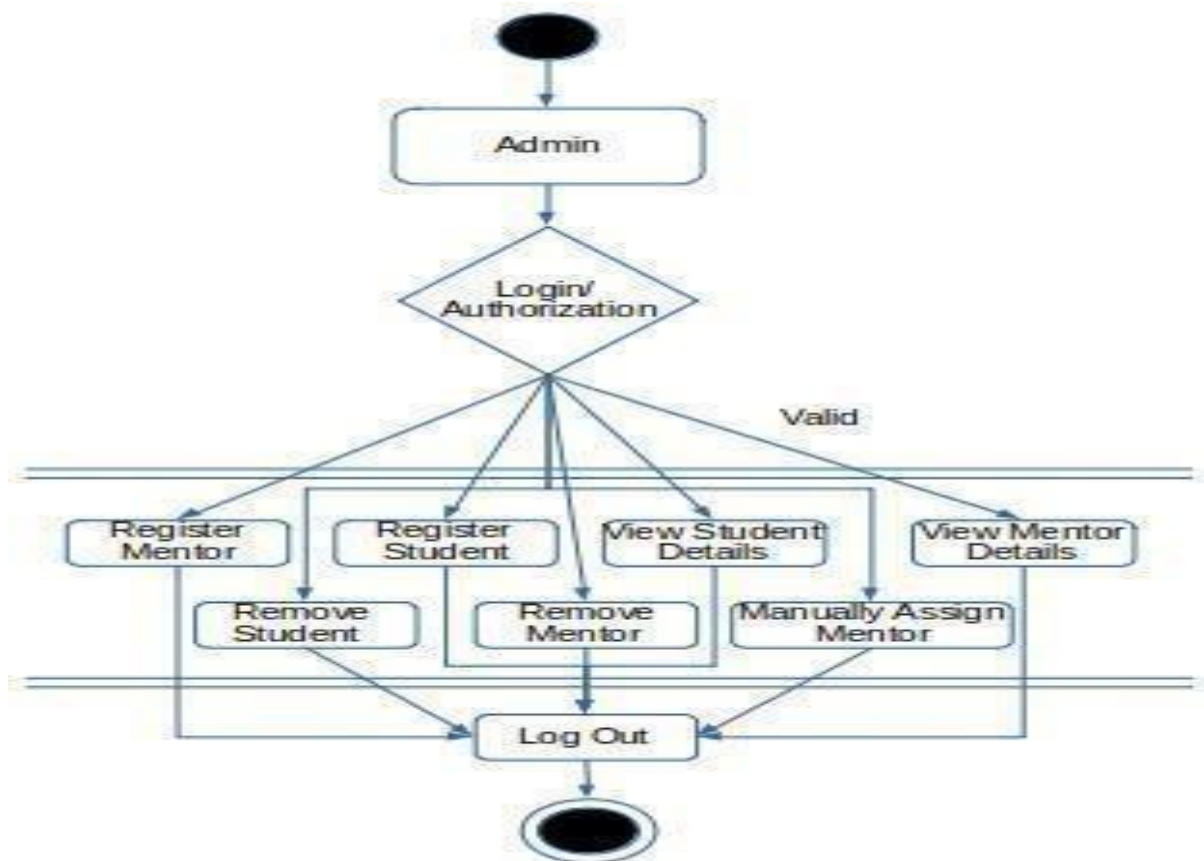
Level 1 - DFD Admin Model:



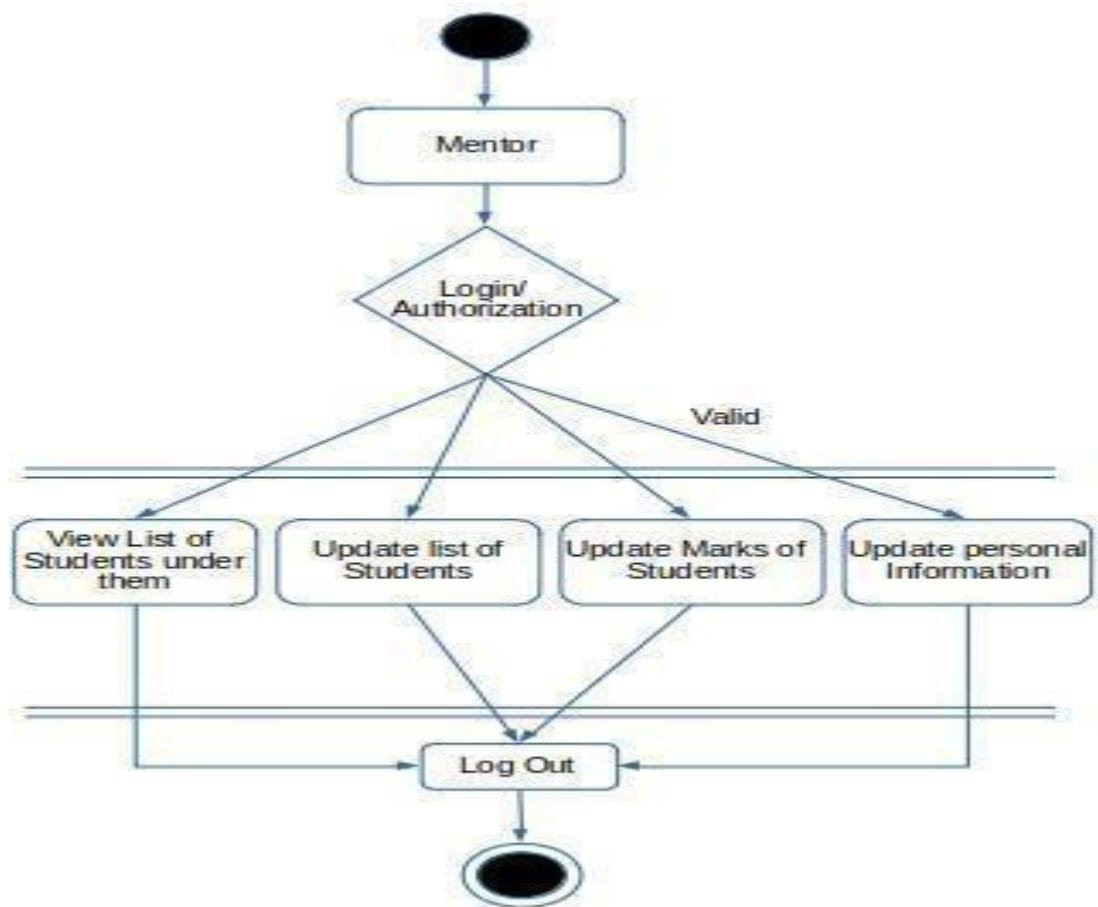
11. Activity Diagram

An activity diagram portrays the control flow of SMGS from a start point to a finish point showing the various decision paths that exist while the activity is being executed.

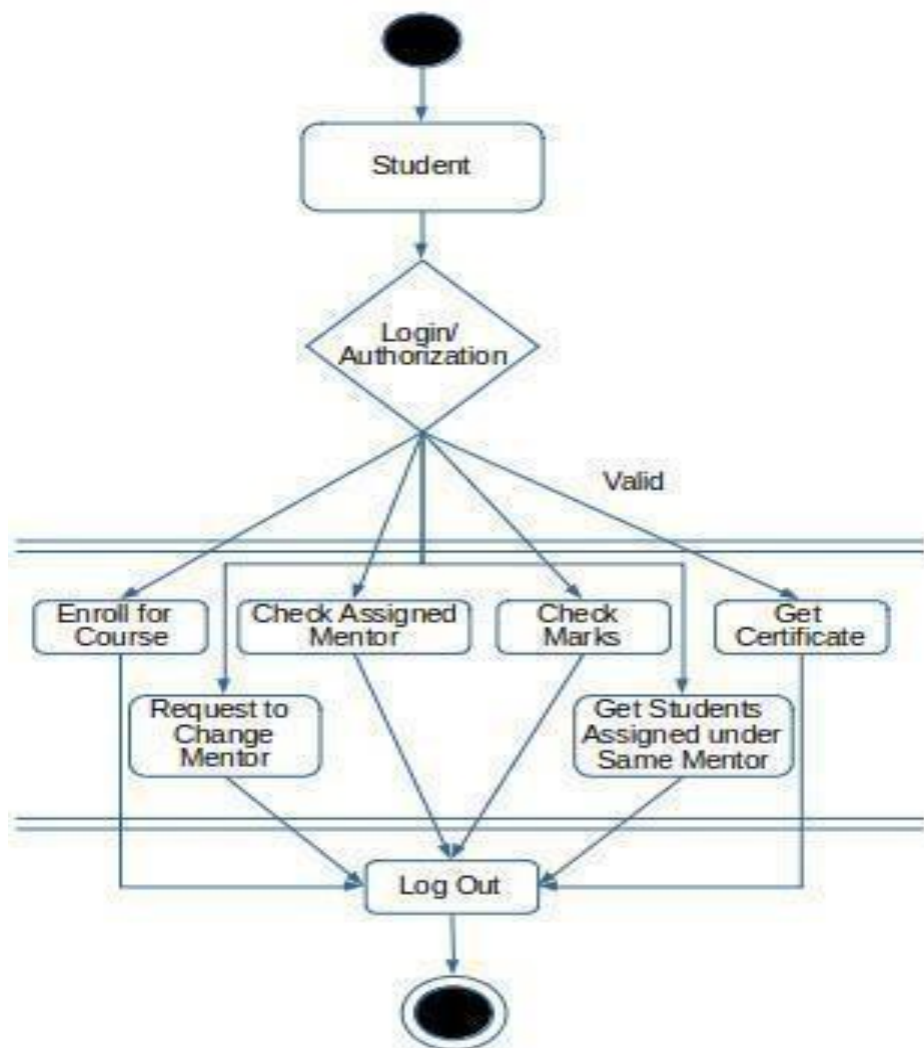
11.1 Admin Activity Diagram



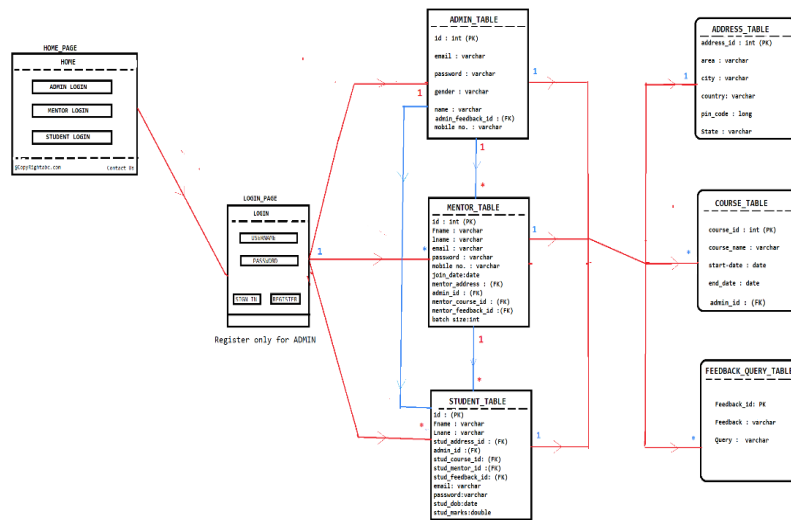
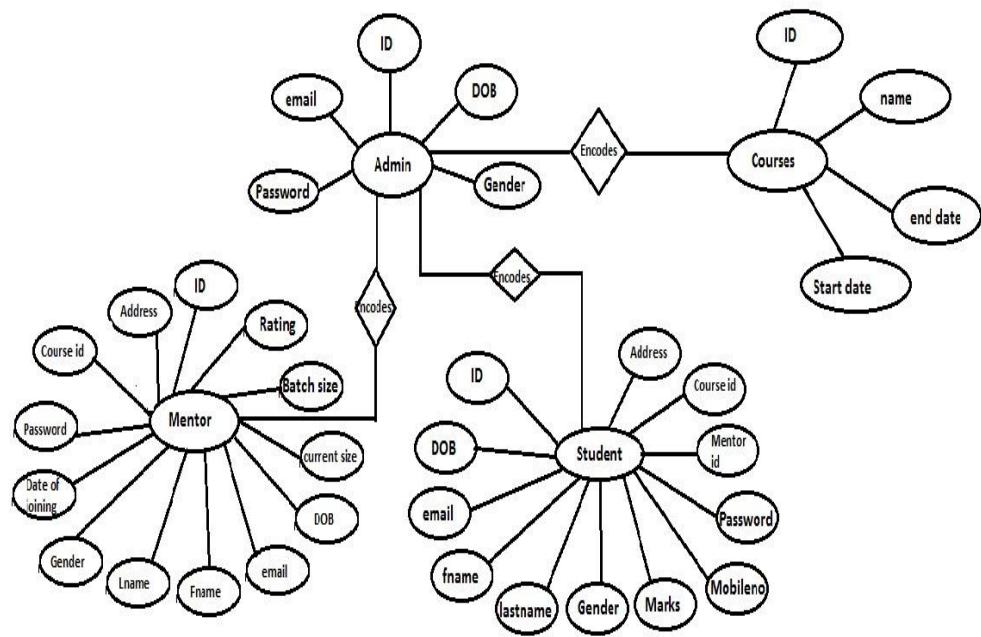
11.2 Mentor Activity Diagram



11.3 Student Activity Diagram



12. ER Diagram :



13. Table Structure

Admin Table-

Field	Type	Null	Key	Default	Extra
admin_id	int	NO	PRI	NULL	auto_increment
admin_dob	date	YES		NULL	
admin_email	varchar(255)	YES		NULL	
admin_fname	varchar(255)	YES		NULL	
admin_gender	varchar(255)	YES		NULL	
admin_lname	varchar(255)	YES		NULL	
admin_password	varchar(255)	YES		NULL	

Mentor Table-

Field	Type	Null	Key	Default	Extra
mentor_id	int	NO	PRI	NULL	auto_increment
avg_rating	float	YES		NULL	
batch_size	int	YES		NULL	
current_batch_size	int	YES		0	
mentor_dob	date	YES		NULL	
mentor_email	varchar(255)	YES		NULL	
mentor_fname	varchar(255)	YES		NULL	
mentor_gender	varchar(255)	YES		NULL	
mentor_join_year	date	YES		NULL	
mentor_lname	varchar(255)	YES		NULL	
mentor_mono	varchar(255)	YES		NULL	
mentor_password	varchar(255)	YES		NULL	
mentor_course_id	int	YES	MUL	NULL	
mentor_address_id	int	YES	MUL	NULL	

Course Table-

Field	Type	Null	Key	Default	Extra
course_id	int	NO	PRI	NULL	auto_increment
course_name	varchar(20)	YES		NULL	
end_date	date	YES		NULL	
start_date	date	YES		NULL	

Student Table-

Field	Type	Null	Key	Default	Extra
student_id	int	NO	PRI	NULL	auto_increment
student_dob	date	YES		NULL	
student_email	varchar(255)	YES		NULL	
student_fname	varchar(255)	YES		NULL	
student_gender	varchar(255)	YES		NULL	
student_lname	varchar(255)	YES		NULL	
student_marks	float	YES		NULL	
student_mobile_no	varchar(255)	YES		NULL	
student_password	varchar(255)	YES		NULL	
assigned_mentor_id	int	YES	MUL	NULL	
student_course_id	int	YES	MUL	NULL	
student_address_id	int	YES	MUL	NULL	

Address Table-

Field	Type	Null	Key	Default	Extra
address_id	int	NO	PRI	NULL	auto_increment
address_line1	varchar(255)	YES		NULL	
address_line2	varchar(255)	YES		NULL	
area	varchar(255)	YES		NULL	
city	varchar(255)	YES		NULL	
country	varchar(255)	YES		NULL	
pin_code	int	YES		NULL	
state	varchar(255)	YES		NULL	

User Table-

Field	Type	Null	Key	Default	Extra
user_id	int	NO	PRI	NULL	auto_increment
reg_date	date	YES		NULL	
user_email	varchar(255)	YES		NULL	
user_fname	varchar(255)	YES		NULL	
user_lname	varchar(255)	YES		NULL	
user_mono	varchar(255)	YES		NULL	
user_password	varchar(255)	YES		NULL	
user_role	varchar(20)	YES		NULL	
user_address_id	int	YES	MUL	NULL	

Query Table-

Field	Type	Null	Key	Default	Extra
query_id	int	NO	PRI	NULL	auto_increment
answer	varchar(255)	YES		NULL	
question	varchar(255)	YES		NULL	

14.User Interface :

14.1 Home Page/Login Page

[Home](#)
[About](#)
[Contact](#)
[FAQ](#)


Student Mentoring Management System

Select Role

☐ Admin
 ☐ Mentor
 ☐ Student

Email address

Password

This reCAPTCHA is for testing purposes only. Please report to the site admin if you are seeing this.
☐ I'm not a robot
 
[Privacy](#)
[Terms](#)

[Sign in](#)

Not a member? [Register](#)

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14.2 Admin Registration

[Home](#)
[About](#)
[Contact](#)
[FAQ](#)

Student Mentoring Management System


User First Name

User Last Name

Email :

Password :

Mobile No :

Reg Date : 

Select Role

☐ Admin
 ☐ Mentor
 ☐ Student

[Register](#)
[Back](#)
[Already Registered Click here to Login](#)

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14.3 Admin HomePage

[Home](#)[About](#)[Contact](#)[FAQ](#)

Student Mentoring Management System

Admin Login Successfull

Hello Admin
sagar@gmail.com

[Go to Student List](#)[Go to Mentor List](#)[Go to Course List](#)[Log Out](#)

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14.4 Mentor List

[Home](#)[About](#)[Contact](#)[FAQ](#)

Student Mentoring Management System









Search by

Search

Search

List of Mentors

Add Mentors

First Name	Last Name	Email	Mobile No	Batch Size	Current Batch Size	DOB	Gender	Join Year	Avg Rating	Action
pratik	patil	pratik@gmail.com	9632587422	50	25	1997-02-16	MALE	2022-04-16	4.1	 
suresh	patel	suresh@gmail.com	9632587532	25	30	1998-02-16	MALE	2022-09-16	3.5	 
tushar	pandey	tushar@gmail.com	9874563215	30	50	1998-01-29	MALE	2022-09-16	2.5	 
anushka	sharma	anushka@gmail.com	9652365258	25	20	1995-02-01	FEMALE	2022-02-02	4.5	 

14.5 Course Information

[Home](#)[About](#)[Contact](#)[FAQ](#)

Student Mentoring Management System









Search by ▼

Serach

Search

List of Courses

Add Courses

Course Id	Course Name	Start Date	End Date	Action
101	DAC	2022-09-25	2023-05-26	 
104	DITIS	2022-09-15	2023-02-15	 
105	DBDA	2022-09-15	2023-04-15	 
110	AI	2022-09-30	2023-02-25	 

Back

14.6 Student List

[Home](#)
[About](#)
[Contact](#)
[FAQ](#)

Student Mentoring Management System











Search by

Serach

Search

List of Students

Add Students

First Name	Last Name	Email	Mobile No	DOB	Gender	Action
ajay	gawali	ajay@gmail.com	98567425688	1991-01-13	MALE	 
raj	patil	raj@gmail.com	9632587411	1997-02-05	MALE	 
priyanka	chopra	priyanka@gmail.com	8523697412	1999-07-16	FEMALE	 
virat	sharma	virat@gmail.com	9632587896	1994-03-16	MALE	 
lakhan	gyanchandini	lakhan@gmail.com	8523652365	2022-09-10	MALE	 

14.7 Add Student

Student Mentoring Management System

Add Student

Enter first name

Enter last name

Enter email

Enter Password

Enter Mobile no

dd-mm-yyyy 

Enter Gender

Save

[Back to List](#)
[Go to Admin Page](#)

14.8 Add Mentor

Add Mentor

Enter first name

Enter last name

Enter email

Enter Password

Enter Mobile no

Enter batch size

Enter current batch size

dd-mm-yyyy

Enter Gender

dd-mm-yyyy

Enter Avg Rating

14.9 Add Course

HomeAboutContactFAQ

Student Mentoring Management System

Add Course

Enter Course Name

Enter Course Name

Enter Start Date

dd-mm-yyyy

Enter End Date

dd-mm-yyyy

Save

Back to List

14.10 Mentor HomePage

[Home](#)
[About](#)
[Contact](#)
[FAQ](#)

Student Mentoring Management System

Mentor Login Successful

Hello pratik

Assigned Students List
Admin Details
Assigned Course Details
Log Out

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14.11 Mentor Assigned Student List

[Home](#)
[About](#)
[Contact](#)
[FAQ](#)

Student Mentoring Management System

Search by
Search

List of Assigned Students

First Name	Last Name	Email	Mobile No	DOB	Gender	Marks	Edit Marks
ajay	gawali	ajay@gmail.com	98567425688	1991-01-13	MALE	83	
raj	patil	raj@gmail.com	9632587411	1997-02-05	MALE	67	
virat	sharma	virat@gmail.com	9632587896	1994-03-16	MALE	58	

Back

14.12 Mentor Assigned Marks

[Home](#)[About](#)[Contact](#)[FAQ](#)

Student Mentoring Management System

Update Marks

Save

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14.13 Mentor Assigned Course

[Home](#)[About](#)[Contact](#)[FAQ](#)

Student Mentoring Management System

Assigned Course Details

Course Id	Course Name	Start Date	End Date
101	DAC	2022-09-25	2023-05-26

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14.14 Admin Details

[Home](#)[About](#)[Contact](#)[FAQ](#)

Student Mentoring Management System

Admin Profile Information:

Admin Name :- Sagar Gawali

Admin Email :- sagar@gamil.com

Contact No :- 9668554565

Back

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14.15 Student Homepage

[Home](#)[About](#)[Contact](#)[FAQ](#)

Student Mentoring Management System

Student Login Successful

Hello raj

[Assigned Mentor Details](#)[Admin Details](#)[Assigned Course Details](#)[Log Out](#)

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14.16 Student Assigned Course

[Home](#)
[About](#)
[Contact](#)
[FAQ](#)

Student Mentoring Management System

Assigned Course Details

Course Id	Course Name	Start Date	End Date
101	DAC	2022-09-25	2023-05-26

Go Back

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14.17 Student Assigned Course

[Home](#)
[About](#)
[Contact](#)
[FAQ](#)

Student Mentoring Management System

Assigned Mentor Details

First Name	Last Name	Email	Mobile No	Batch Size	Current Batch Size	DOB	Gender	Join Year	Avg Rating
pratik	patil	pratik@gmail.com	9632587422	50	25	1997-02-16	MALE	2022-04-16	4.1

Back

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14.18 Contact Us

[Home](#)
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[Contact](#)
[FAQ](#)

Student Mentoring Management System

Contact Us

Sagar Gawali

+91 9665884323

sagargawali106@gmail.com

sagargawali123

Bhushan Gawali

+91 9657380930

bhushangawali1969@gmail.com

bhushangawali

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14.18 About Us

[Home](#)
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Student Mentoring Management System

About Us

This portal is to benefit students in their career in order to acquire required as well as desired skills through appropriate training courses. A mentor is an important part of the journey of learning. While we understand this, our honest effort is to tag along an expert who can guide the student and help him make most of the training courses. The assignment of mentor is done keeping in mind skillsets of the mentors, their availability, the training course that the student has selected, etc. This is our first attempt to create a system to benefit our students.

Please watch out this place for many more and advanced features to launch in near future.

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15.Future Scope:

As stated before, this project enhances the communication between student and mentor thereby improving the academic performances of the student. Each student is graded according to their Performances and they receive questions based on these grades. Their grades may improve or fall based on their performances. Hence varying levels of attention can be given to the students. By this work, we conclude that e-mentoring in an academic institute can be developed and tremendous System which is easily accessible to parents as well as mentors and students. Hence it will allow the mentors to dedicate more time whenever they wish and can give much precise feedback that will give proper guidance and the right solution to the problems of students.

16.References:

1. StackOverflow: <https://stackoverflow.com/>
2. GitHub: <https://github.com/>
3. Java Docs:
<https://docs.oracle.com/javase/8/docs/technotes/tools/windows/javadoc.html>
4. Spring Boot Docs:
<https://docs.spring.io/spring-boot/docs/current/reference/htmlsingle/>
5. Hibernate Docs: <https://hibernate.org/orm/documentation/5.4/>
6. ReactJS Docs: <https://reactjs.org/docs/getting-started.html>

15.Test Reports:

The test of report is given hereunder:

Sr.No.	Test Case Title	Description	Expected Outcome	Error Message	Result
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1	Login Page – Admin	If User Email=Admin Email, Password= Admin Password	If email and password is correct for Admin Home Page If not redirect to the same page	Username and password required	Passed
2	Login Page – Mentor	If User Email=Mentor Email, Password= Mentor Password	If email and password is correct for Admin Home Page If not redirect to the same page	Username and password required	Passed
3	Login Page – Student	If User Email= Student Email, Password= Student Password	If email and password is correct for Admin Home Page If not redirect to the same page	Username and password required	Passed
4	Show Details of user	Admin,Mentor and Student can see the Details of user	User Details	No Error	Passed
5	New User Registration	Admin can register new Admin, Mentor, Student, and Course	Success Message with user details registered	Validation Error	Passed
6	Update	Admin can update new Admin, Mentor, Student, and Course	Success Message with user details registered	Validation Error	Passed
7	Deletion	Admin can delete new Admin, Mentor, Student, and Course	Success Message	No Error	Passed
8	Log out	User / Admin can log out by using the Logout link	Redirected to Home page	No Error	Passed