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Mentor Mentee Administrative System

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1. Abstract	3
2.Introduction.....	3
2.1 Objective.....	3
2.2 Scope of the Project	4
3.Project End Users.....	4
3.1 User Characteristics.....	5
4.Requirements.....	6
4.1 Functional Requirements	6
4.2 Modular Description	6
4.3 Non-Functional Requirements	8
5.Designing.....	8
5.1 Low-Level Design.....	8
5.2 High-Level Design.....	9
6.Diagram.....	10
6.1 Use-Case Diagram.....	10
6.2 Class Diagram.....	11
6.3 Flow Diagram	12
7.TestCases.....	12
8.Conclusion.....	12
9.Future Recommendations.....	13

1. Abstract

The Mentor-Mentee Administrative System is a digital platform designed to facilitate effective pairing and interaction between mentors and mentees in various educational and professional contexts. The mentor and mentee system is meant by managing the relationship between the mentor and the mentee. The mentor and mentee system provides the professional guidance, career advancement of the student and it helps in improving the academic performance of the student. Mutual trust, regular contact and conversation are the basic concept of mentor and mentee system. The mentor's role is to provide guidance, encouragement, and support, while the mentee's role is to ask for help when needed, establish clear lines of communication, maintain contact, and learn. Here the mentees are set with the mentor providing support, guidance and experience sharing. Mentors can help highlight issues and to assist the Mentee in planning ways through them.

2. Introduction

Mentor and Mentee Administrative System is one of an important factor in modern education system. This system helps the institutional to streamline the administrator task and provide real-time access to the data. This system is structured as web-based interface and its easy to accessibility through any web browsers.

2.1 Objective

The objective of this document is to presented a detailed of the Mentor and Mentee Administrative System. It will explain the purpose and features of the software. The document is not only defined the system functions, user characteristics, constrains and specific requirement of the systems. This document is intended for both end users and developers of the system.

- To maintain complete details of students and mentors about the personal, academic, internship and placement domain.
- To enable students and mentors to view their details any time from anywhere. No need to meet professors Personally.
- To enable mentors to verify their mentees details and send approval of entered data.
- To maintain information of the passed-out students.

2.2 Scope of the Project

The scope of the "Mentor and Mentee Management System" is:

- To facilitate administration to view any details of the students quickly.
- The system will store information about students and respective mentors personal and academic and details of the pass out students.
- Storing, Updating and retrieving of the data in a fast and accurate ways.
- Storing mentee internship curricular activities and placement related information.

3. Project End Users

The Mentor and Mentee System, is an independent product and does not dependent on any other product or system. The system will automate various tasks associated with handling students details and better organizing the stored information and optimum performance, thus helping the college to unsure smooth working of these process.

Our system has two types of accessing models,

1.Administrator

2.User

2.1 Mentor

2.2 Mentee

1.Administrator

This system is managed by administrator has to update and monitor the registered Mentor and Mentees details, add new Mentors and Mentees, Provides register number for all students, etc.

Administrator can update database as per requirements and also can give help to the mentors and mentees. Facilitate the maintenance of the important records of the students and mentors.

II. User

These are two users in the Mentor and Mentee system,

a. Mentor:

Mentor can see the mentees detailed related to mentees academic, Exams, Internships, Attendance and Placement related data. Once the mentees upload their data on portal, mentor will check entered data and approve or disapprove the data. Mentor will also handle the previously passed out mentees data.

b. Mentee:

Mentees can add their all-required data related to Exams, Personal, Internship, Placements and attendance data and send for approval to the respective mentor.

The data is editable, mentees can change is whenever required. Mentees can access this data anytime anywhere.

3.1 User Characteristics

This system gives access to two kinds of users.

1.Administrator:

The personnel and system administrator will have administrator access to add, delete and modify information stored in the database.

2.Authorized User:

Mentors will have access to only view the data stored in the database and can update the mentees attendance in the form of formatted report. Mentees will have access to the system to fill required details.

4. Requirements

4.1 Functional Requirements

Login: Mentor and mentee must login through their username and password.

Register: Mentor and mentee will register themselves to enroll the courses to learn.

Post Questions: Mentor can post the assignment questions through the assignment page.

View Questions: Mentor and mentee both are view the questions that assigned.

Answer Questions by mentee: Mentee can answer the questions of the assignment.

Post Doubts: Mentee can post their doubts on the courses.

View Doubts: Mentor can view the doubts raised by the mentee.

Answer Questions by mentor: Mentor can answer the doubts that raised by the mentee.

Feedback: Feedback that given by the mentee to the mentor of their training.

4.2 Modular Description

4.2.1 Login to the system

Each and every user should be authenticated with a User Name and Password to login into the system. This login system is for both mentor and mentee.

Validations for User Name and Password.

User Name: It must be in Numbers, Alphabets, symbol and Underscore symbol.

Password: It can be anything of the users' choice.

4.2.2 Mentee Requirement

Register:

Mentee is to register with the username and password to login into the system and enrolled the courses of the system.

View/Answer Assignments:

Mentee can view the assignment questions through the assignment pages where the mentors after posting the assignments in that assignments page. After that mentee will upload the answers of the assignments in the page.

Post/View Doubts:

The mentee was only able to post the doubts or queries whatever the mentee has, it would be posted in the doubts page. After that the mentor will post the answer for the doubts the mentee will view the answers that the mentor posts for the doubts in the page.

4.2.3 Mentor Requirement

Register:

Mentor is to register with the username and password to login into the system and enrolled the courses of the system.

Post Questions:

Mentor will post their assignment questions through the assignment page that the mentee will view and answer the questions

View and Review Answers:

The mentor was viewing the mentee answers and the mentor also will able to upload the answers for the assignments and also review the answers of the mentee in this system.

View and Answer Doubts:

The mentor was viewing the doubt and answer the doubts of the mentee who asking that the courses are taken by the mentor in doubt page of the system.

4.3 Non – Functional requirement

Safety Requirement:

- Backup for the database is available.
- All important details should be maintained in hardcopy.

Performance Requirement:

- The system should be responsive, even its in under peak usage conditions.
- Response times for actions like resource access should be within acceptable limits.

Maintenance Requirement:

- The system should be well-documented to facilitate ease for maintenance and future enhancements.
- Codebase should follow coding standards to ensure readability and maintainability.

Usability:

- The user interface should be user-friendly, requiring minimal training for both mentors and mentees.
- Accessibility standards should be followed to ensure usability for users with disabilities.

5. Designing

5.1 Low-Level Design

The low-level design of the mentor and mentee system that defines the detailed architecture and implementation of each and every component of both frontend and backend of the system. It detailed defines the progress of the functional requirements of the system and the module description of the mentor and mentee system of user authentication, profile management, matching algorithm, progress tracking and administrative dashboard of this system. The user

authentication modules work that checking the username and login password of that already stores in the database that verify and give authentication the user. In authentication that know who login is mentor or mentee and displayed their dashboards among their requirement respectively. The database schemas that represent the entity of the mentor details, mentee details, question and answer, doubts and feedback of the system of the mentor and mentee administrative. Communication among the mentors and mentees shall be able to communicate through a messaging system within the platform. Mentors and mentees shall be able to set goals, milestones, and action plans within the system. Meeting notes, progress updates, and feedback shall be recorded and accessible to both mentors and mentees. The system shall generate progress reports based on recorded data. System administrators shall have access to a dashboard for managing users, monitoring interactions, view and edit user profiles, deactivate accounts, and resolve disputes. The dashboard shall provide analytics and insights into the usage and effectiveness of the mentorship program. In the low-level design of the system that have defines each and every component in the mentor and mentee system.

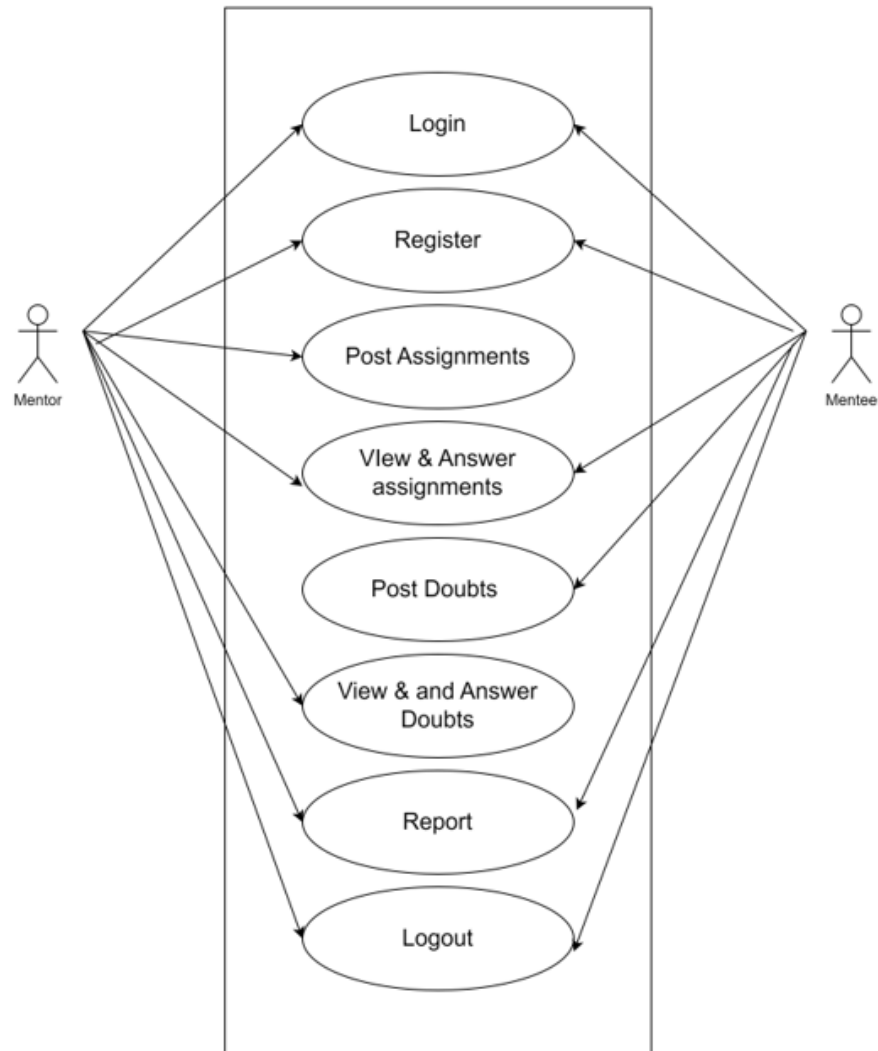
5.2 High-Level Design

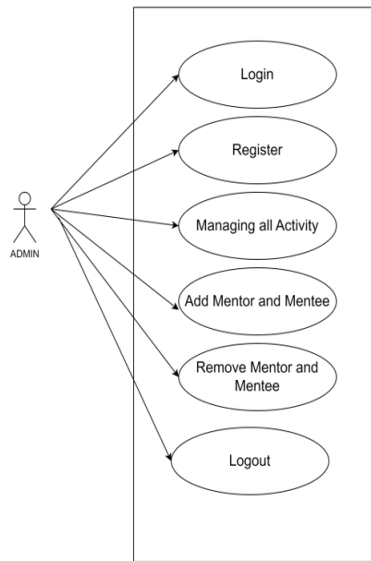
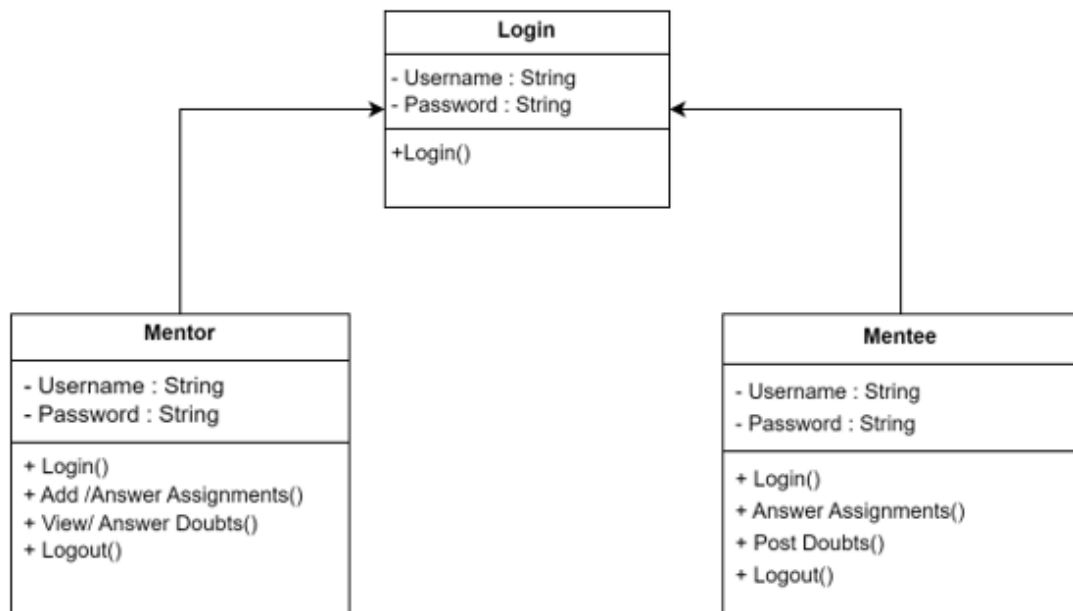
In the High-level Design it defines the User Interface, client-server, technologies and frameworks that are used in the mentor mentee administrative system. That frameworks that to make frontend for the system using of frameworks of React.js that providing a dynamic interface for the system. The backend server that connected the database that retrieve data from the database and will show in the interface of that show what data is required for the user that needed for the time. For each module that have a dynamic interface that shows the content and make the action of the modules in the mentor mentee system. In the system that have an architecture design for each and every module that displaying the working of the modules. The database that has an entity of username, assignment, answers and doubts were posted by the mentor and mentee in the system. The modular architecture and the actions are providing security, performance and maintenance system.

6. Diagrams

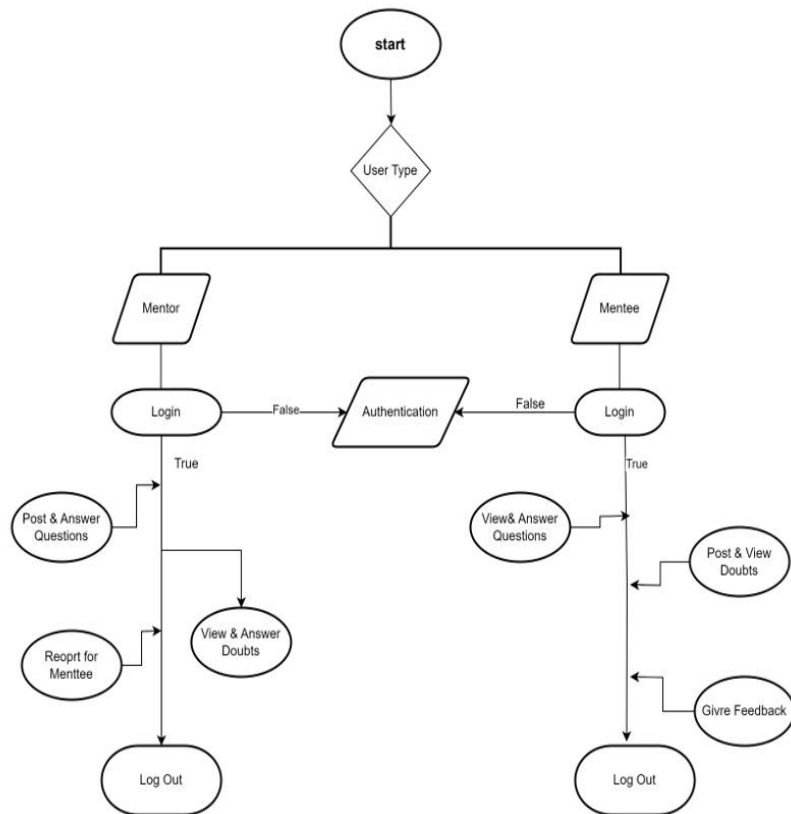
6.1 UseCase Diagram

UseCase for Mentor and Mentee:



Use Case for Admin:**6.2 Class Diagram**

6.3 Flow Diagram



7. Test Cases

8. Conclusion

The Mentor and Mentee Administrative System aims to provide a comprehensive platform for managing mentorship programs within organizations. By facilitating communication, tracking progress, and offering administrative functionalities, the system seeks to enhance the effectiveness and efficiency of mentorship initiatives.

9. Future Recommendations

In the future recommendations that integration with AI based chatbot that displays information what requirement that who wants in the system that retrieve from the database and displays in the interface of the mentor and mentee from the mentor and mentee administrative system.