JSS MAHAVIDHYAPEETHA

**JSS COLLEGE OF ARTS, COMMERCE & SCIENCE**

(Autonomous)

OOTY ROAD, MYSURU – 570025

Project Report On

# MENTOR MENTEE MANAGEMENT SYSTEM

**Submitted in partial fulfilment for the Course Degree in Bachelor of Computer Application**

Submitted by

**Amrutha B M [U01BE22S0066]**

Under the guidance of

**Mrs. Kavyashree D G**

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Department of Computer Science

JSS COLLEGE, MYSURU - 570 025

**DEPARTMENT OF COMPUTER SCIENCE**

# JSS COLLEGE OF ARTS, COMMERCE & SCIENCE

(Autonomous)

OOTY ROAD, MYSURU – 570 025

## DEPARTMENT OF COMPUTER SCIENCE

# CERTIFICATE

This is certify that project work entitled **"MENTOR MENTEE MANAEMENT SYSTEM"** carried out by **Amrutha B M** Bearing Register Number – **U01BE22S0066** satisfactorily completed the project work in VI Semester by partial fulfilment for the award of the degree of **Bachelor of Computer Application** by JSS COLLEGE OF ARTS, COMMERCE & SCIENCE (Autonomous) MYSURU during the academic year 2024-2025.

**Signature of the Guide** **Signature of the HOD**

Date of the Examination:

**VALUED**

Name & Signature of Examiners

**1.**

**2.**

# ACKNOWLEDGEMENT

We acknowledge with pride, the continued support and encouragement of **Mr. Vidyashankar**, Head of the Department of Computer Science for providing every facility and constant supervision.

We are grateful to our guide **Mrs. Kavyashree D.G**, Assistant Professor, Department of Computer Science, for her invaluable guidance, suggestions, constant encouragement and help rendered to us, which has led to the successful completion of our project.

We also thank all **teaching and non-teaching staff** of Department of Computer Science, who has directly or indirectly extended their timely help.

Finally, but not the least, we sincerely salute **our parents and our classmates** in reverence who have been the embodiment of love, affection and moral support in all walks of our life.

**Amrutha B M [U01BE22S0066]**

# DECLARATION

We hereby declare that this project report, entitled "**Mentor Mentee Management System**" has been carried out by us under the guidance of Mrs. **Kavyashree D.G**, Assistant Professor, Department of Computer Science, JSS College of Arts Commerce and Science, Ooty Road, Mysuru.

To our best Knowledge this project work has not been submitted in any other colleges or university.

Place: MYSURU

Date: / /2025

**Amrutha[U01BE22S0066]**

## ABSTRACT:

The Mentor Mentee Management System is a web-based Application and it is a digital platform designed to streamline and enhance the mentoring process in educational settings.

This system facilitates structured communication and performance tracking between mentors and mentees. Here the admin is responsible for managing student, faculty, attendance, marks, resources, assignment, and study plans. And mentors can manage their assigned students. Study plans, marks, assignment, attendance, and also resources. Then the student can see all study plans, resources, marks, attendance, and assignments from their faculty. The parents can view their child attendance and marks in anytime.

This system encourages regular mentor mentee interactions and effective goal-setting. It reduces manual processes and ensures transparency in mentoring activities. This project ultimately aims to foster a supportive environment that empowers students to achieve their academic goals.

# TABLE OF CONTENTS

# 1. INTRODUCTION

Mentorship is a vital element in the academic and personal development of students, especially in educational institutions. With the growing number of students and the increasing complexity of academic structures, managing mentorship activities manually has become highly challenging and inefficient. Mentors often face difficulties in maintaining consistent communication with students and their parents, tracking academic performance, and managing time effectively. This gap creates a barrier in providing the guidance and support students need to succeed.

One of the key features of this system is the ability to record and manage student attendance, continuous internal evaluation marks (CIE - C1, C2), and semester examination results. These records are stored securely and can be accessed by authorized users at any time. Mentors can easily update performance data, track the academic growth of their mentees, and identify students who may need additional support.

This helps build trust and engagement between the institution and the parents, ultimately contributing to the student's success.

Parents are provided access to a dedicated portal where they can log in and view their child's academic status. This includes attendance records, marks,

In the current educational environment, where personalization and progress tracking are crucial, a system like this is not just useful but necessary. It reduces the administrative burden on faculty, ensures no student is overlooked, and creates a structured framework for academic monitoring.

# 2. SYSTEM ANALYSIS

## 2.1 EXISTING SYSTEM

In the existing system all mentors and student's activities are managed manually, and most mentoring and academic management tasks are performed using paper-based methods.

**Record Keeping in Spreadsheets or Files:**

- Details like mentee progress, mentor feedback, meeting schedules, and goals are stored in Excel sheets, Word documents, or physical records.
- Updating and retrieving information is time-consuming and error-prone.

**Paper-Based or Email Communication:**

- Communication between mentors and mentees is typically done via email, phone, or informal meetings.
- There is no centralized tracking system for messages or meeting history.

**Time-Consuming Process**:

- Managing records and communication manually takes effort.

**Low Data Security**

- Sensitive information is stored in unsecured files, increasing the risk of data loss or leaks.

## 2.2 PROPOSED SYSTEM

The aim of proposed system is to develop a system of improved facilities. The proposed system can overcome all the limitations of the existing system. It includes individual login access for admins, mentors, student and parents to ensure transparency and smooth communication.

- Secure, centralized database for stoting all student, mentor, and parent records.
- Reduced manpower by automating routine tasks like attendance, marks, and assignments.
- Mentors can upload and share study materials, resources, and schedules directly through the system.
- The parent can view their child marks and attendance in this system. They can view anytime.
- Here the student can also submit their assignments and view their marks and attendance.

## 2.3 FEASIBILITY STUDY

A feasibility study, also known as feasibility analysis, is an analysis of the viability of an idea. The results of this analysis are used in making the decision whether to proceed with the project or not.

**Feasibility Considerations**

Two key considerations are involved in the feasibility study.

1. Economic feasibility
2. Technical feasibility

### 2.3.1 Economic feasibility

Economic analysis could also be referred to as cost/benefit analysis. In economic analysis the procedure is to determine the benefits and savings that are expected from a candidate system and compare them with costs. If benefits outweigh costs, then the decision is made to design and implement the system.

- The system is cost effective.
- Estimated cost of hardware is feasible.
- Estimated cost of software development is feasible

### 2.3.2 Technical feasibility

The systems project is considered technically feasible if the internal technical capability is sufficient to support the project requirements. The analyst must find out whether current technical resources can be upgraded or added to in a manner that fulfils the request under consideration.

- The project is feasible within the limits of current technology.
- The current technical resources sufficient for the new system.
- The technology can be easily applied to the current problems.

## 2.4 SYSTEM REQUIREMENTS

### 2.4.1 SOFTWARE REQUIREMENTS

- Operating system : Windows v7 or later versions
- Front End : HTML, CSS,
- Back End : PHP, SQL
- Tools Used : Visual Studio, Notepad, Notepad++, Xampp for database and server
- Browser : Google Chrome, Mozilla Firefox, Microsoft Edge

### 2.4.2 HARDWARE REQUIREMENTS

- Processor : 1 GHz
- RAM : 212MB
- Hard Disk : 2GB

# 3. SYSTEM DESIGN

## 3.1 MODULES

The system includes four modules:

### ❖ ADMIN MODULE

- Login
- Manages Student
- Manages Faculty
- Manages Marks
- Manage Attendance
- Manage Assignments
- Manage Resource and study plans
- Logout

### ❖ MENTOR MODULE

- Register
- Login
- Manage Marks and attendance
- Manage study plans and resource
- Manage Assignments
- Logout

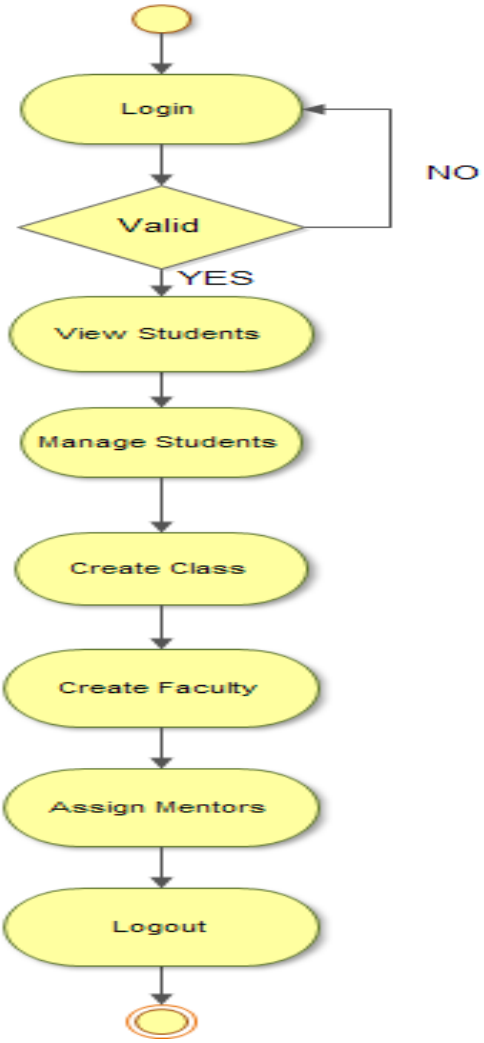
- **STUDENT MODUL**
  - Register
  - Login
  - View Marks
  - View attendance
  - View Study plans
  - View Assignments
  - View Resources
  - Logout
- **PARENT MODULE**
  - Login
  - View Marks
  - View attendance
  - Logout

## 3.2 DIAGRAMS

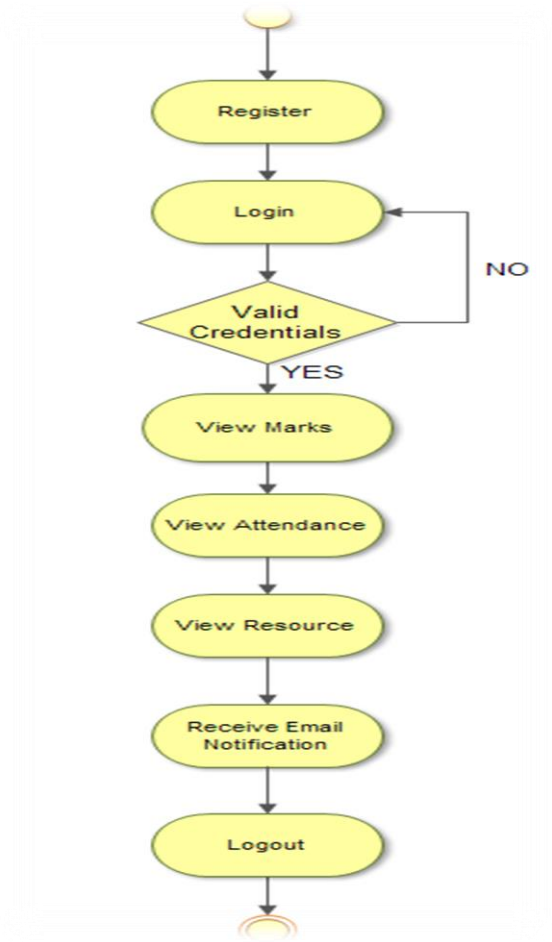
This project deals with the various software diagrams.

### 3.2.1Activity Diagram

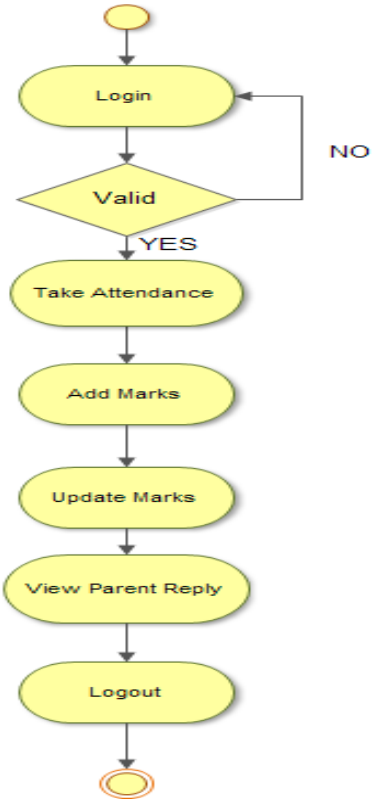
Activity diagrams represent the business and operational workflows of a system. An activity diagram is a dynamic diagram that shows the activity and the event that causes the object to be in the particular state. It is a simple and intuitive illustration of what happens in a workflow, what activities can be done in parallel, and whether there are alternative paths through the workflow.



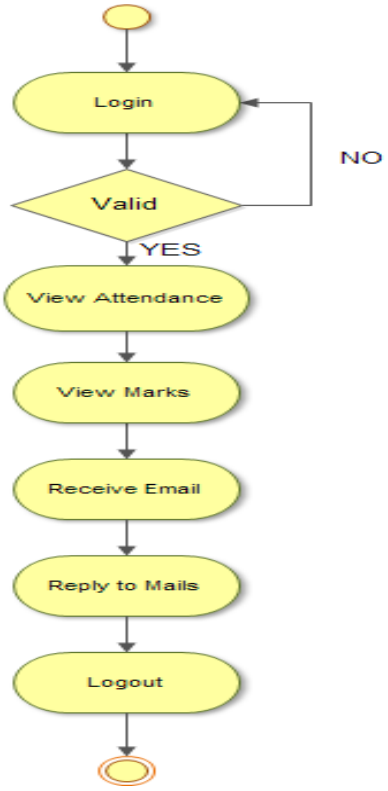

Activity Diagram for Admin




Activity Diagram for Student




Activity Diagram For Mentor

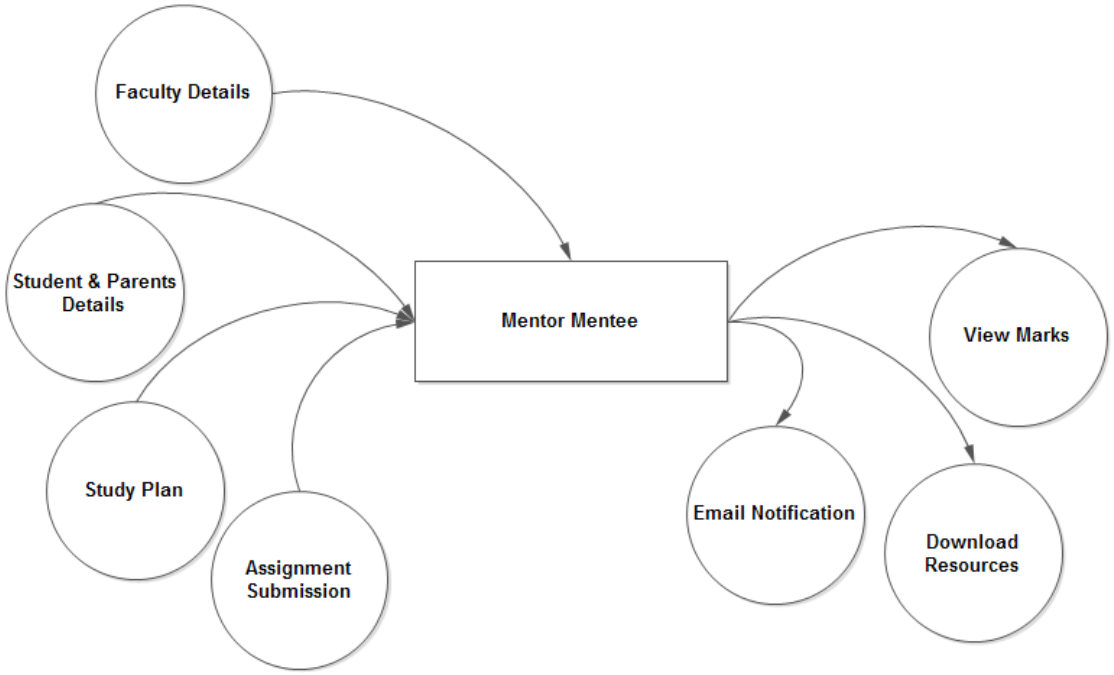



Activity Diagram for Parents

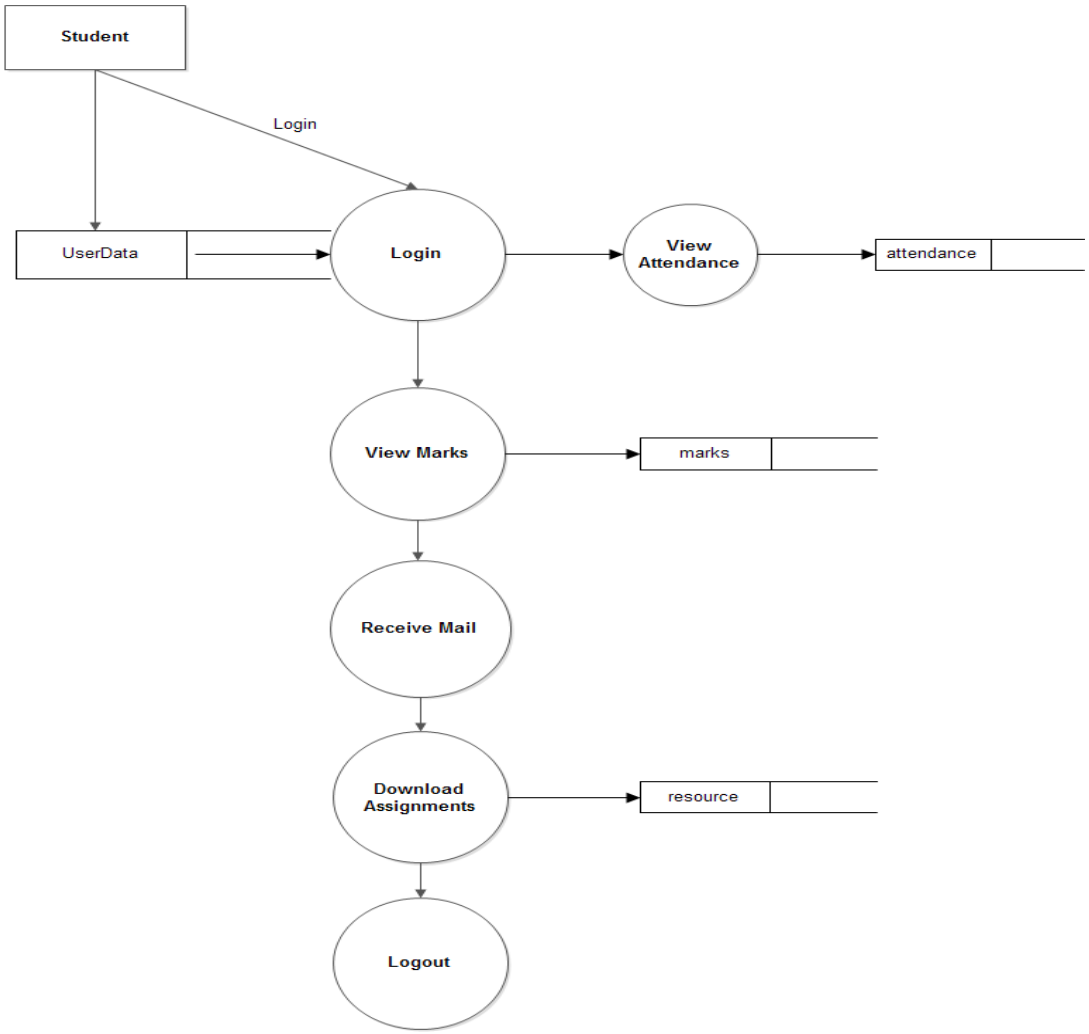
### 3.2.1 Data Flow Diagram

DFD graphically representing the functions, or processes, which capture, manipulate, store, and distribute data between a system and its environment and between components of a system. The visual representation makes it a good communication tool between User and System designer. Structure of DFD allows starting from a broad overview and expands it to a hierarchy of detailed diagrams. DFD has often been used due to the following reasons:

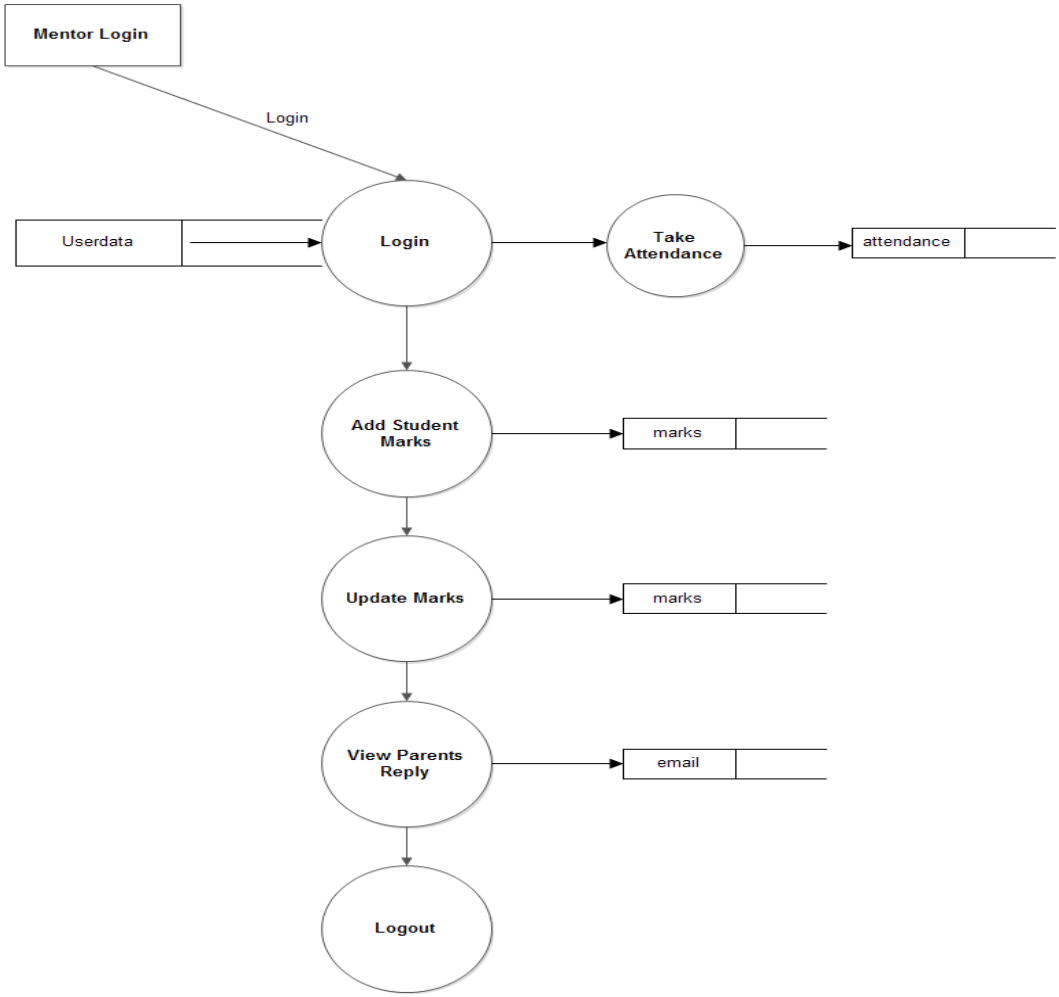
- Logical information flow of the system
- Determination of physical system construction requirements
- Simplicity of notation
- Establishment of manual and automated systems requirements



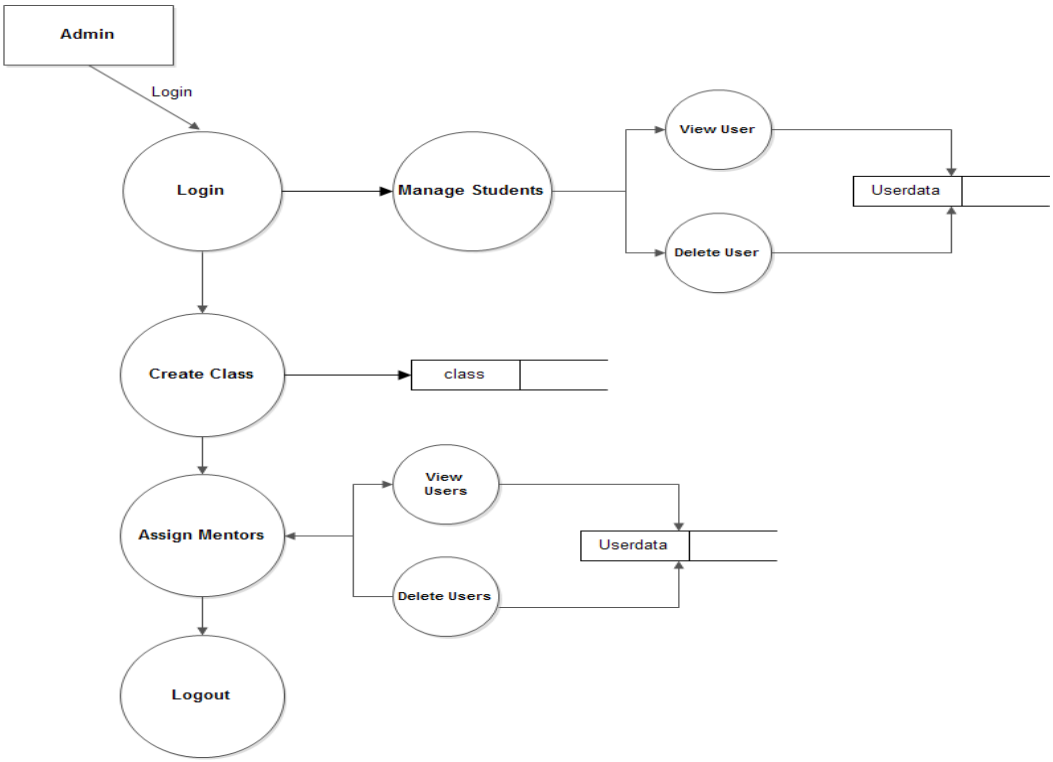

Level 0 DFD



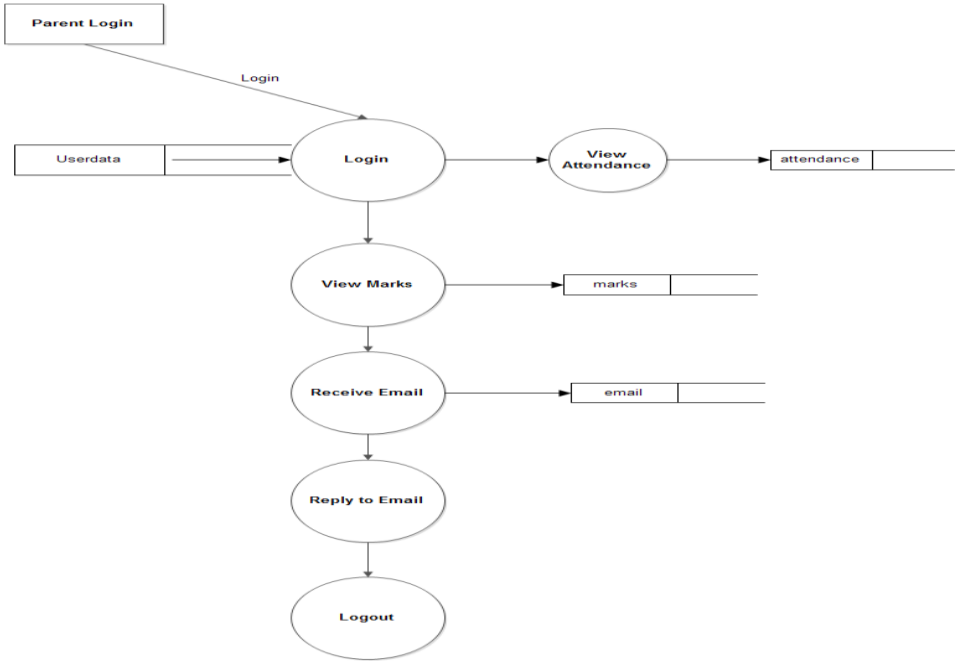

Level 1 DFD for Student




Level 1 DFD for Mentor




Level 1 DFD for Admin

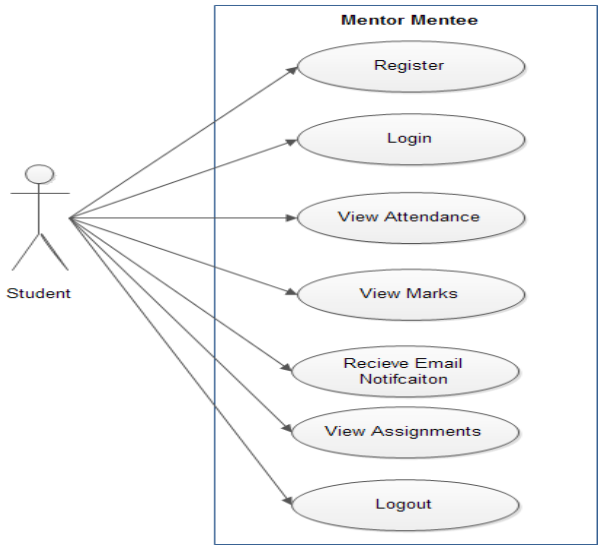


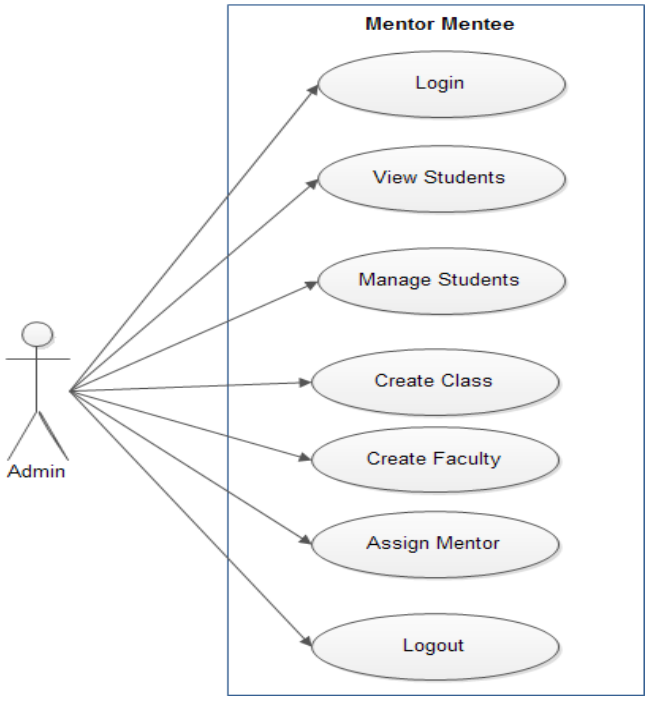

Level 1 DFD For Parent

### 3.2.2 Use Case Diagram

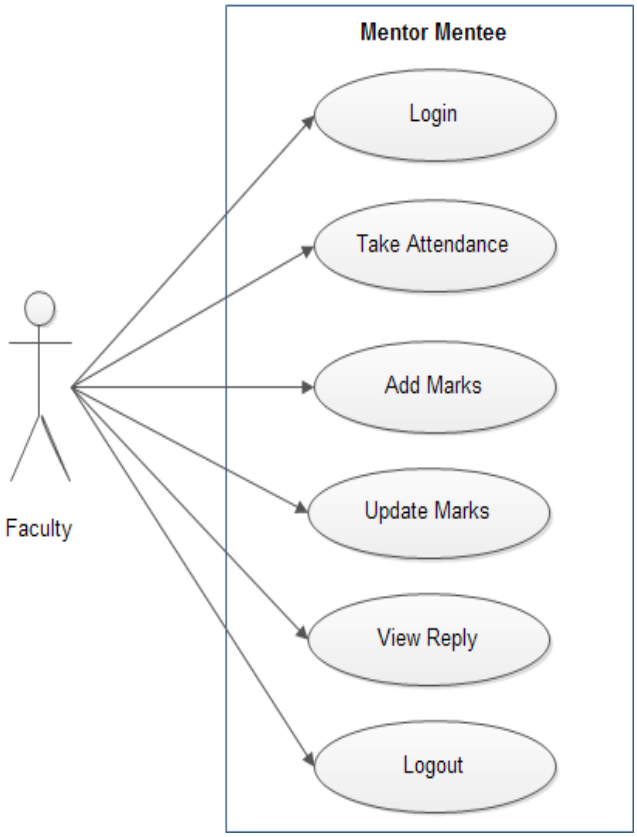
Use case diagram is a graph of actors, a set of use cases enclosed by a system boundary, communication associations between the actor and the use case. The use case diagram describes how a system interacts with outside actors; each use case represents a piece of functionality that a system provides to its users. A use case is known as an ellipse containing the name of the use case and an actor.

Use Case Diagram for Student

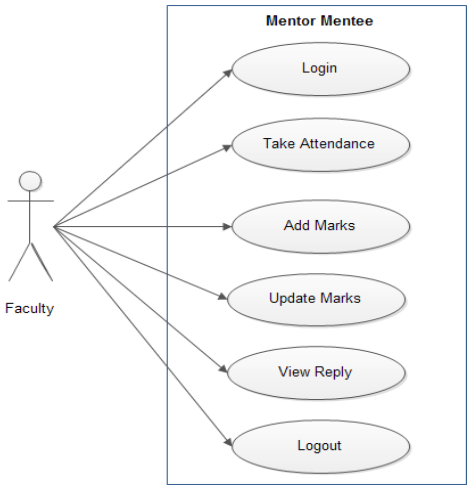





Use Case Diagram for Admin



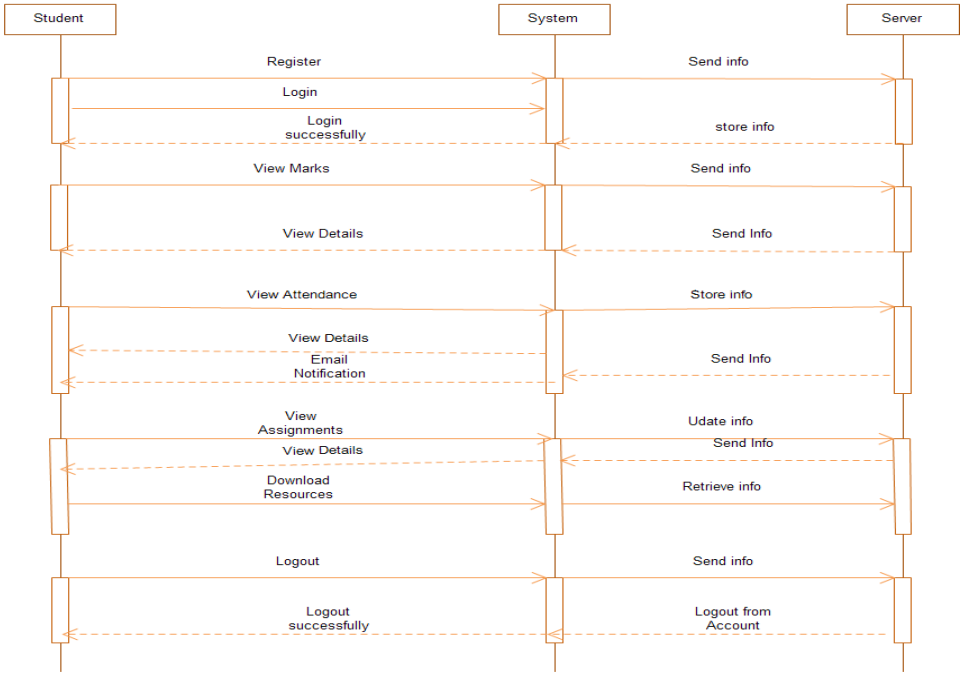

Use Case Diagram for Mentor




Use Case Diagram for Parent

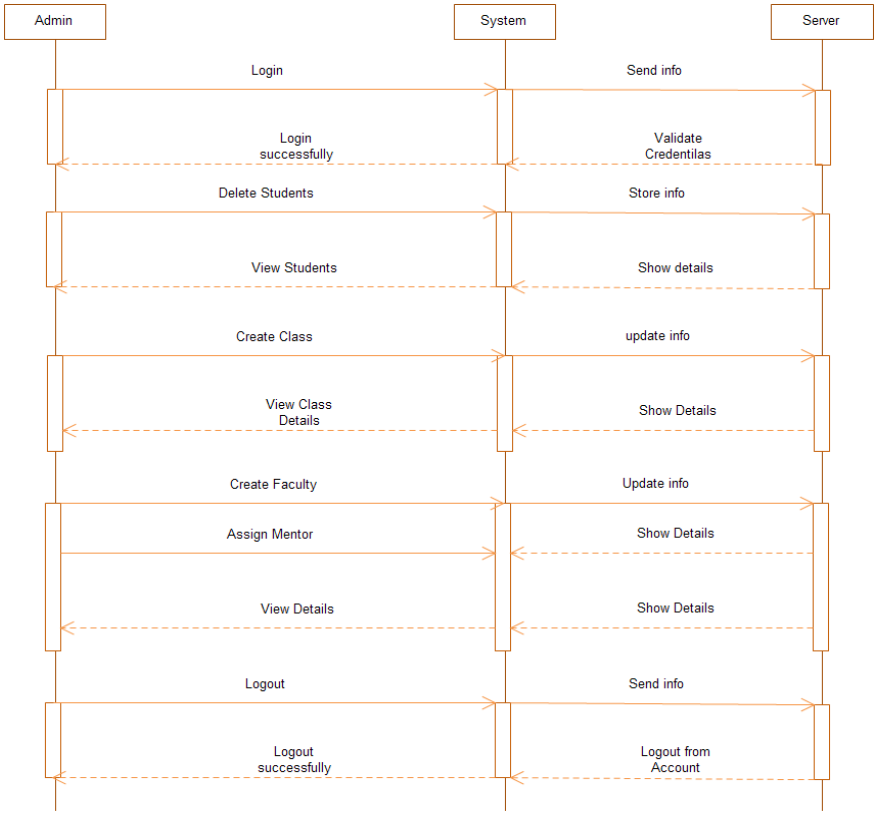
### 3.2.3 Sequence Diagram

A Sequence diagram shows object interaction arranged in time sequence. It depicts the objects and classes involved in the scenario and the sequence of messages exchanged between the objects needed to carry out the functionality of the scenario.

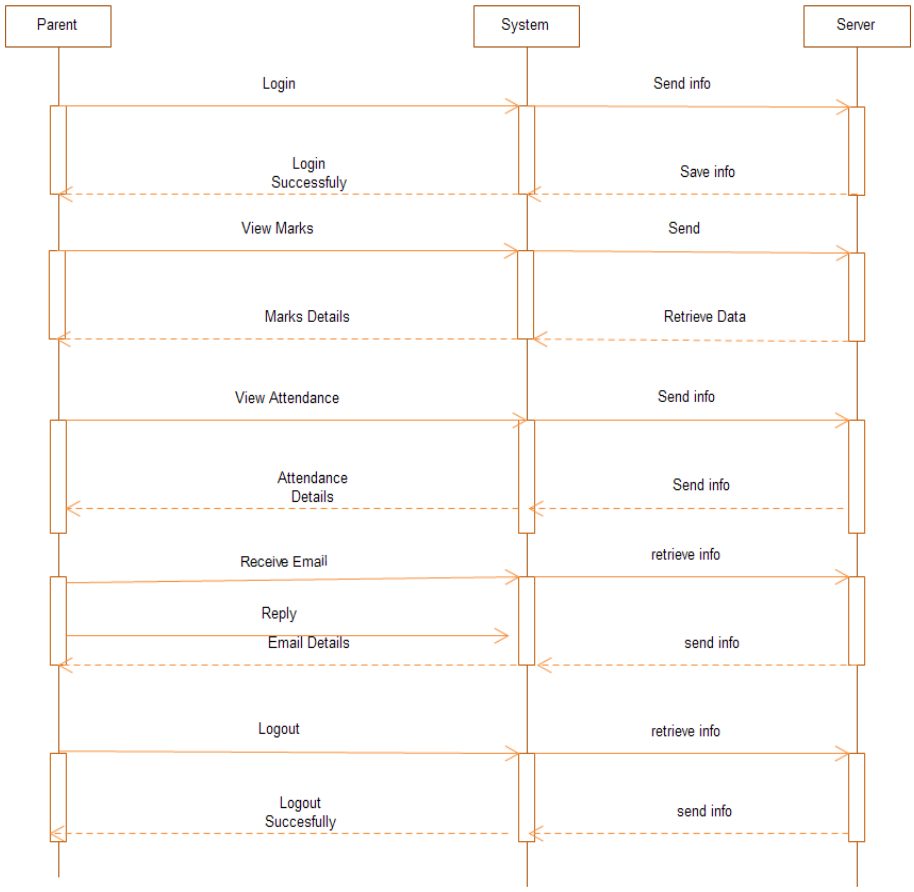


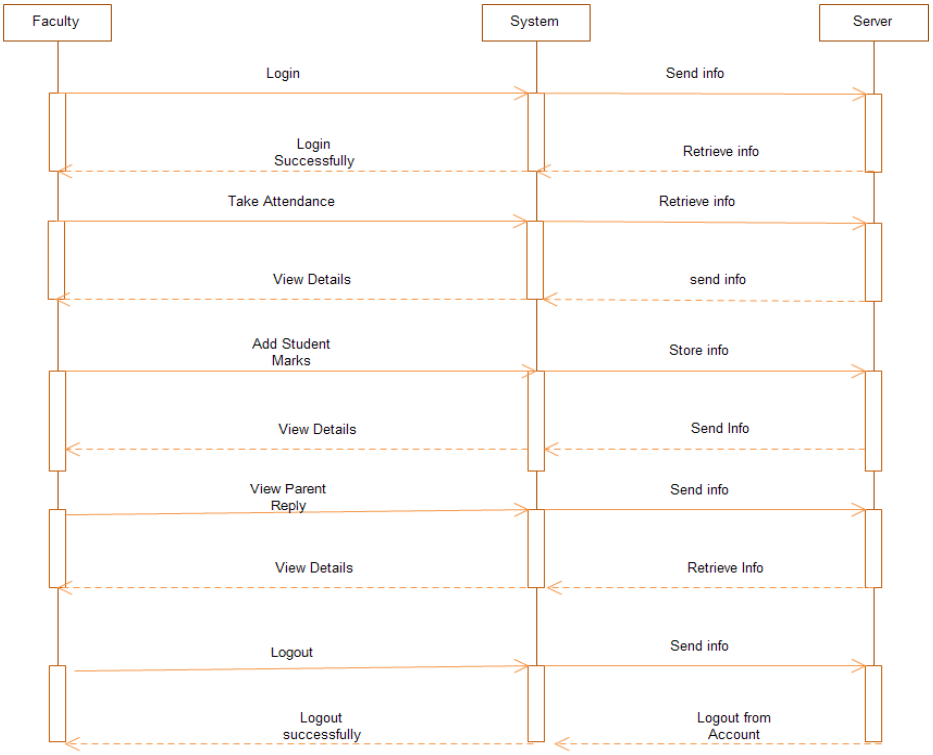

Student Sequence Diagram

## Admin Sequence Diagram




## Parent Sequence Diagram

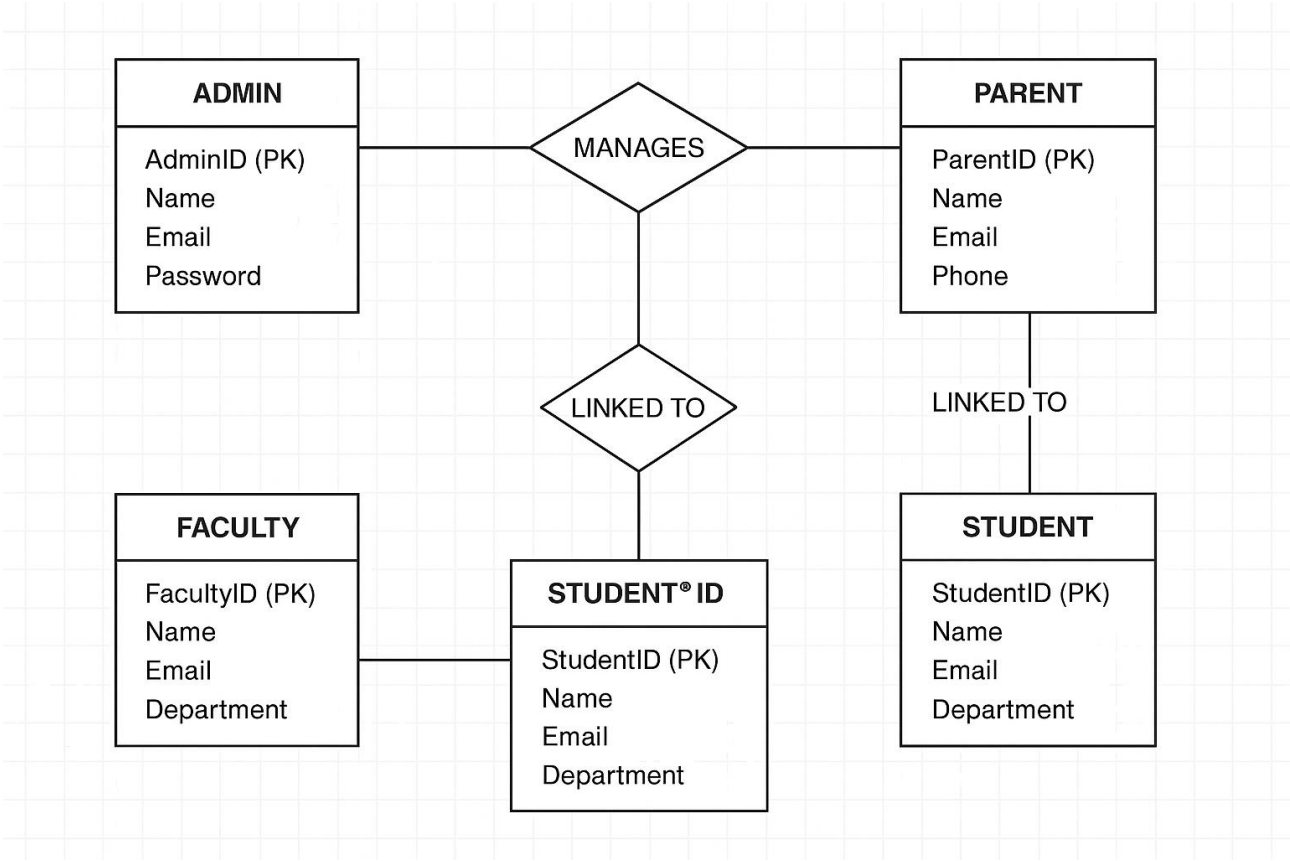





Faculty Sequence Diagram

### 3.2.4 Entity-Relationship Diagram

Entity Relationship depicts the various relationship among entities, considering each objective as entity. Entity relationship is described by their dependence on each other, as well as the extent of the relationship between the data stores. It depicts the relationship between the data objects. The E-R diagram is a notation that is used to conduct the data modelling activity.



## 4. CODING

……. Index Page…….

```
<?php
// index.php - Stylish Home Page
?>
<!DOCTYPE html>
<html lang="en">
<head>
   <meta charset="UTF-8">
   <meta name="viewport" content="width=device-width, initial-scale=1.0">
   <title>MENTOR MENTEE Portal</title>
   <link href="css/bootstrap.css" rel="stylesheet">
   <script src="js/jquery.js"></script>
   <script src="js/bootstrap.js"></script>
   <style>
      body {
         background: url('images/home.jpg') no-repeat center center fixed;
         background-size: cover;
      }
      .overlay {
         background: transparent;
         min-height: 100vh;
      }
      .home-card {
         box-shadow: 0 4px 24px rgba(0,0,0,0.18);
         border-radius: 1rem;
      }
      .navbar {
         background: rgba(255,255,255,0.92) !important;
      }
   </style>
</head>
<body>
<div class="overlay">
<nav class="navbar navbar-expand-lg navbar-light">
  <div class="container-fluid">
   <a class="navbar-brand fw-bold" href="#">MENTOR MENTEE</a>
   <div class="collapse navbar-collapse justify-content-end">
     <ul class="navbar-nav mb-2 mb-lg-0">
       <li class="nav-item"><a class="nav-link" href="faculty/login.php">Faculty
Login</a></li>
       <li class="nav-item"><a class="nav-link" href="student/login.php">Student
```

```
Login</a></li>
        <li class="nav-item"><a class="nav-link" href="parent/login.php">Parent
Login</a></li>
        <li class="nav-item"><a class="nav-link" href="admin/login.php">Admin
Login</a></li>
      </ul>
    </div>
  </div>
</nav>
<div class="container d-flex align-items-center justify-content-center" style="min-
height: 90vh;">
    <div class="row w-100 justify-content-center">
        <div class="col-md-8 col-lg-6">
            <div class="card home-card p-4 text-center my-4"> <h2 class="fw-bold mb-
3">Welcome to Mentor Mentee</h2>
                <p class="lead mb-4">A modern portal for Faculty, Students, Parents, and
Admins.<br>Click below to access your module.</p>
                <div class="d-grid gap-3">
                    <a href="faculty/login.php" class="btn btn-primary btn-lg">Faculty
Module</a>
                    <a href="student/login.php" class="btn btn-success btn-lg">Student
Module</a>
                    <a href="parent/login.php" class="btn btn-warning btn-lg">Parent
Module</a>
                    <a href="admin/login.php" class="btn btn-dark btn-lg">Admin
Module</a>
                </div>
            </div>
        </div>
    </div>
</div>
</div>
</body>
</html>
```

……..Admin Login page…….…….

```
<?php
// Admin Login Page (hardcoded: admin/admin)
session_start();
$err = '';
if ($_SERVER['REQUEST_METHOD'] === 'POST') {
    $username = trim($_POST['username']);
    $password = trim($_POST['password']);
    if ($username === 'admin' && $password === 'admin') {
        $_SESSION['admin_logged_in'] = true;
        header('Location: dashboard.php'); exit;
    } else {
        $err = 'Invalid credentials!';
    }
}
?>
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Admin Login - MENTOR MENTEE</title>
    <link href="../css/bootstrap.css" rel="stylesheet">
    <script src="../js/jquery.js"></script>
    <script src="../js/bootstrap.js"></script>
</head>
<body style="background:url('../images/auth.jpg') no-repeat center center fixed;
background-size:cover;">
<nav class="navbar navbar-expand-lg navbar-light bg-light">
  <div class="container-fluid">
    <a class="navbar-brand fw-bold" href="../index.php">MENTOR MENTEE</a>
    <div class="collapse navbar-collapse justify-content-end">
      <ul class="navbar-nav mb-2 mb-lg-0">
        <li class="nav-item"><a class="nav-link" href="../index.php">Home</a></li>
      </ul>
    </div>
  </div>
</nav>
<div class="container d-flex align-items-center justify-content-center" style="min-
height:90vh;">
    <div class="col-md-5">
        <div class="card p-4 shadow-lg">
            <h3 class="mb-3 text-center">Admin Login</h3>
```

```
        <?php if($err): ?><div class="alert alert-danger"><?php echo $err;
?></div><?php endif; ?>
        <form method="post">
          <div class="mb-3">
            <input type="text" name="username" class="form-control"
placeholder="Username" required>
          </div>
          <div class="mb-3">
            <input type="password" name="password" class="form-control"
placeholder="Password" required>
          </div>
          <button class="btn btn-dark w-100">Login</button>
        </form>
      </div>
    </div>
</div>
</body>
</html>
```

# 5. TESTING

Software testing is the process of evaluating a software item to detect differences between given Input and expected output. Software testing is a process that should be done during the development process.

## 5.1 Unit Testing

While coding, the programmer performs some tests on that unit of program to know if it is error free. Testing is performed under white-box testing approach. Unit testing helps developers decide that individual units of the program are working as per requirements and are error free.

## 5.2 System Testing

The software is compared as product and then it is tested as a whole. This can be accomplished using one or more of the following tests:

- ✓ Functionality testing: Tests all functionalities of the software against the requirements.

- ✓ Performance testing: This test proves how efficient the software is. It tests the effectiveness and average time taken by the software to do desired task.

- ✓ Security & Portability: These tests are done when the software is meant to work on various platforms and accessed by number of persons.

## 5.3 TEST CASES

### 5.3.1 Test case for Admin Login Page

| Sl. No. | Description | Input | Expected Output |
|---|---|---|---|
| **1** | Launch application | localhost/in any browser | The login page should be displayed |
| **2** | Login using valid credentials | Enter correct User name. and password in textbox and click login button | It shows Login success |
| **3** | Login using invalid credentials | Enter User Name. and password in textbox and hit login button | Message should appear displaying "Invalid credentials" |
| **4** | To check the 'Admin login page' link | Click on "admin login page" link | Admin login page should be displayed |

No bugs are found.

### 5.3.2 Test for Student Login

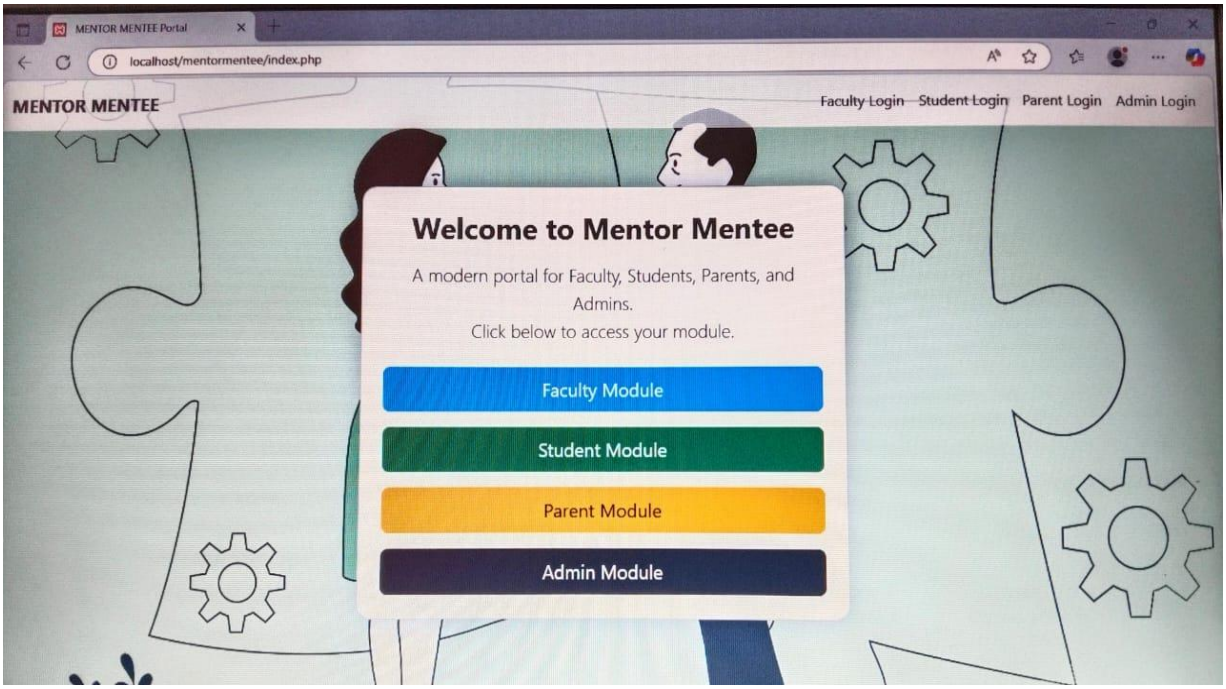
| Sl. No. | Description | Input | Expected Output |
|---|---|---|---|
| **1** | Launch application | Localhost/ in any browser | The login page should be displayed |
| **2** | Register student | Enter correct User name. and password, email, phone num, address, sem. textbox and click Register button | It shows Register Successfully |

| | | | |
|---|---|---|---|
| **3** | Login using valid credentials | Enter correct User name. and password in textbox and click login button | It shows Login success |
| **4** | Login using invalid credentials | Enter User Name. and password in textbox and hit login button | Message should appear displaying "Invalid credentials" |
| **5** | To check the 'Student login page' link | Click on "Student login page" link | Admin login page should be displayed |

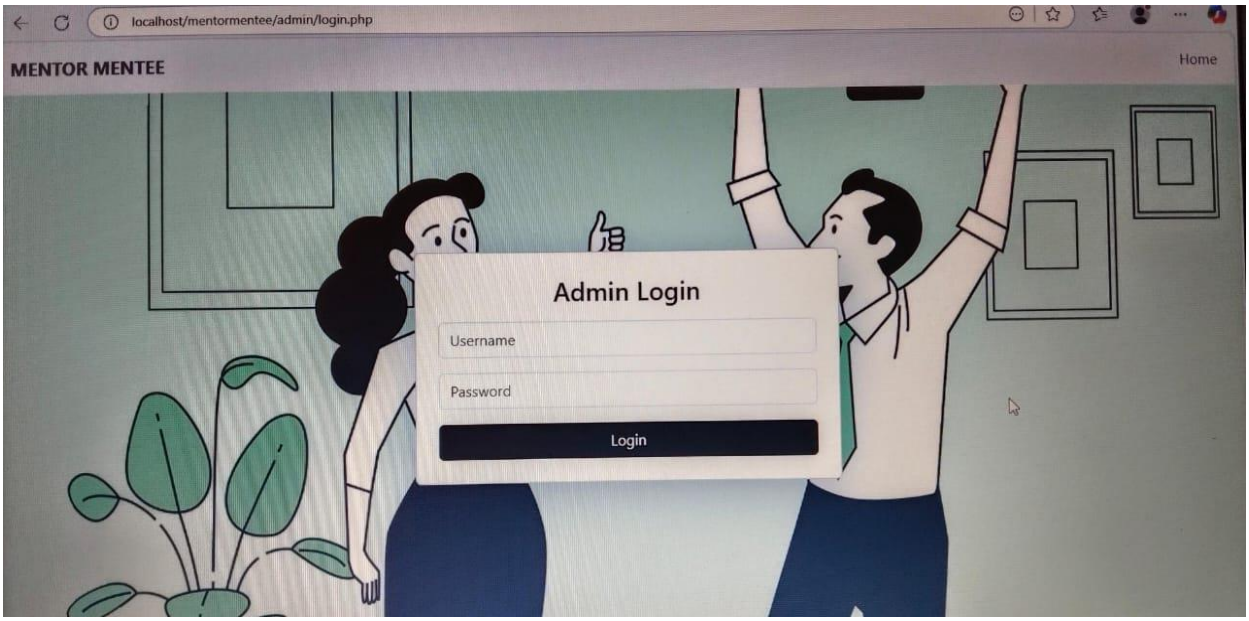
No bugs are found.

# 6. SNAPSHOTS

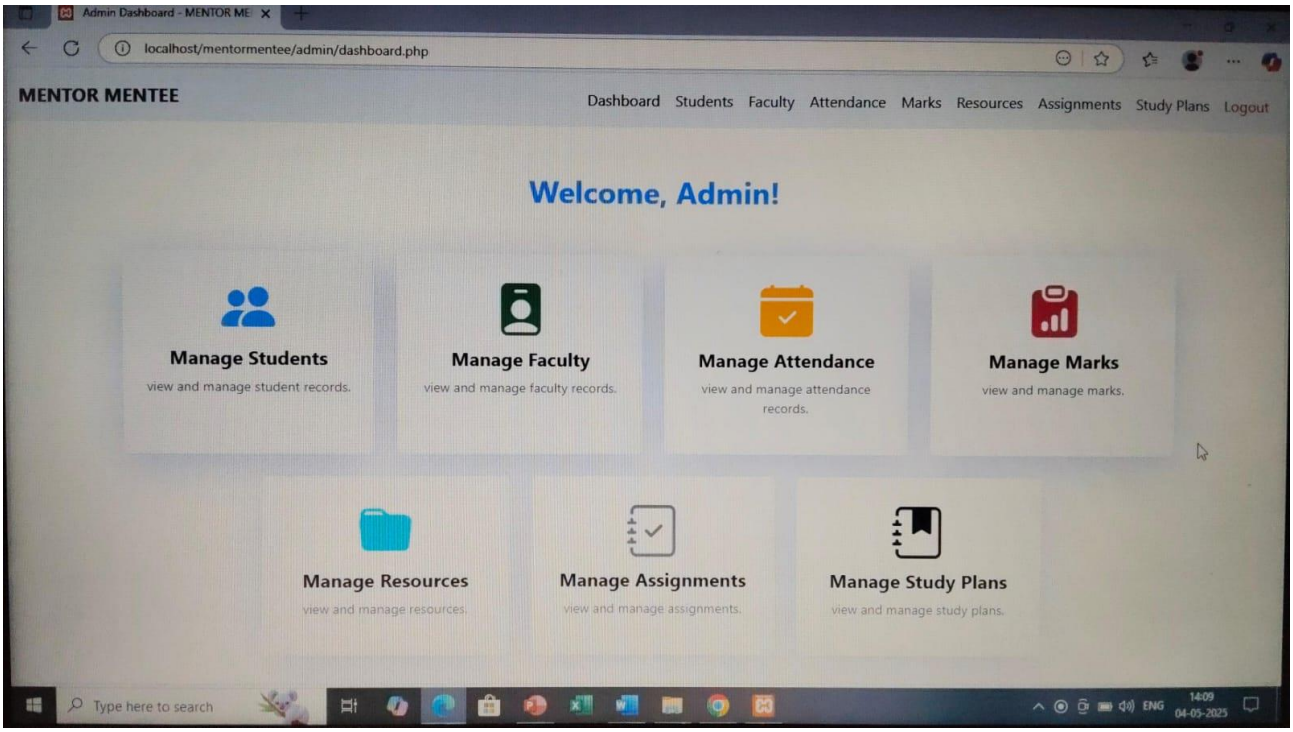
## Index:



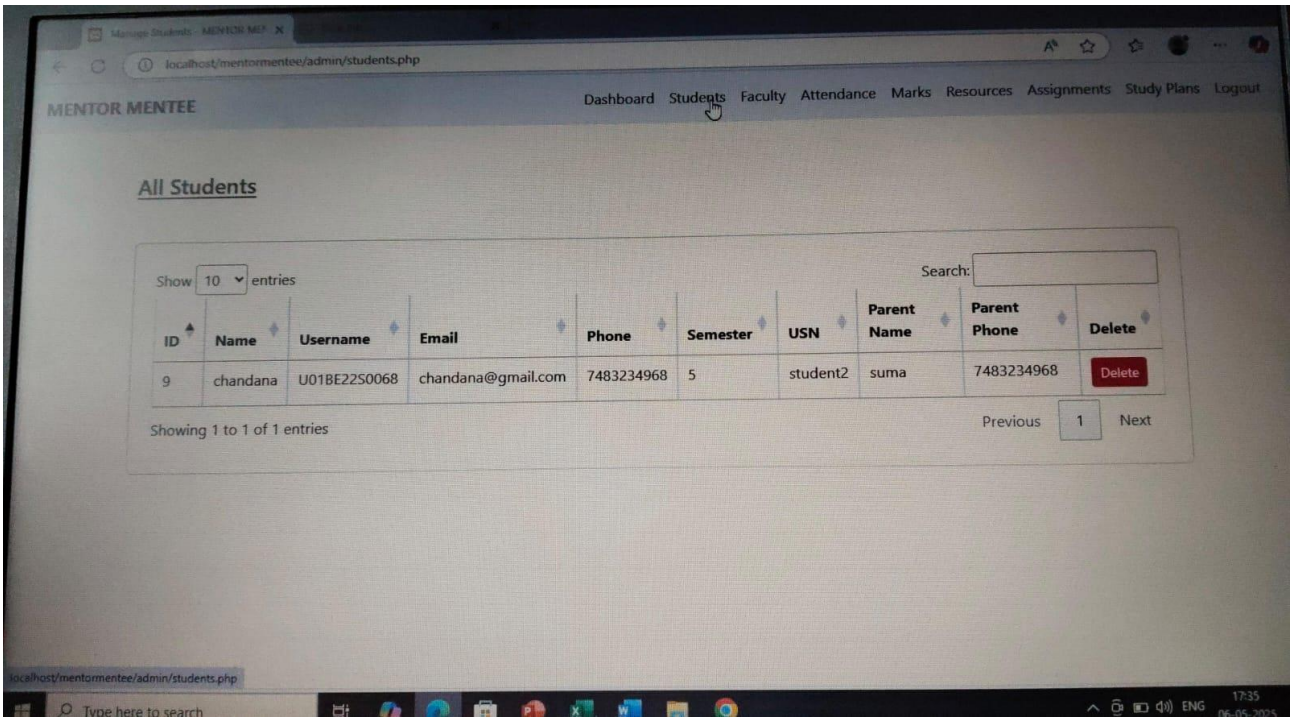

## Admin Login:



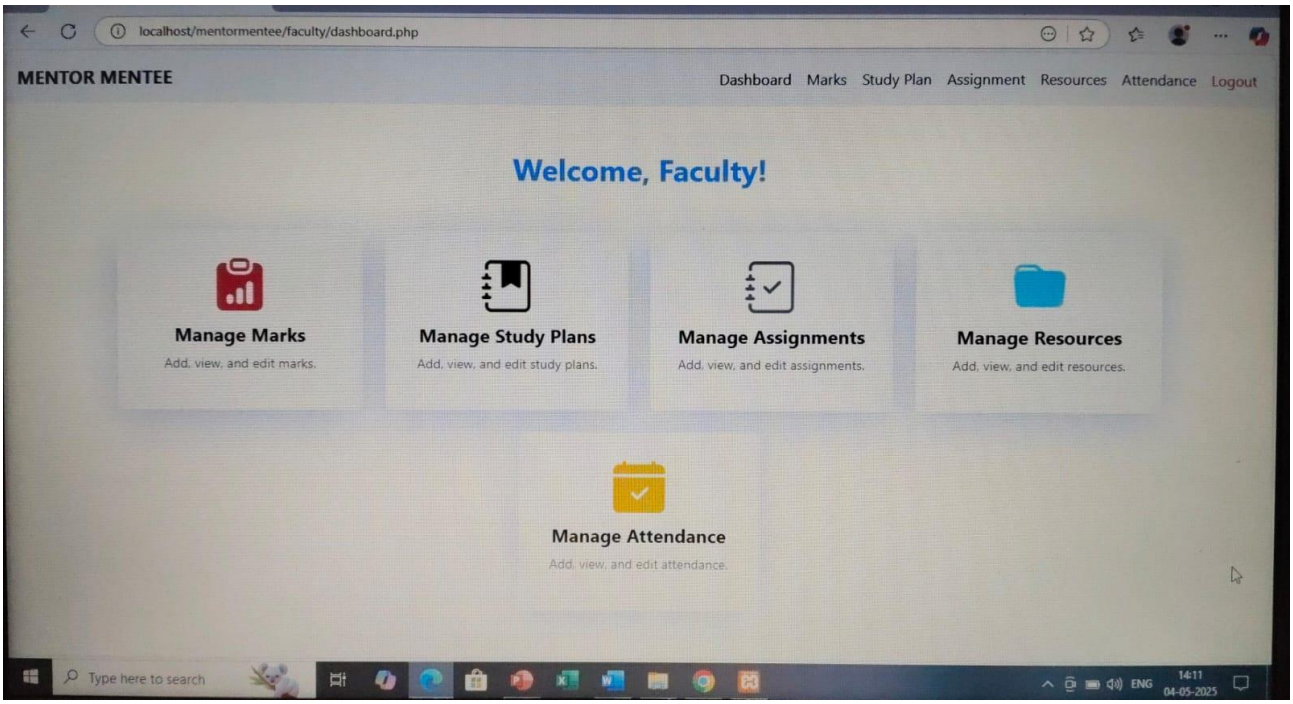
## Admin Dashboard:




## Admin Manage Student:



## Faculty Dashboard:

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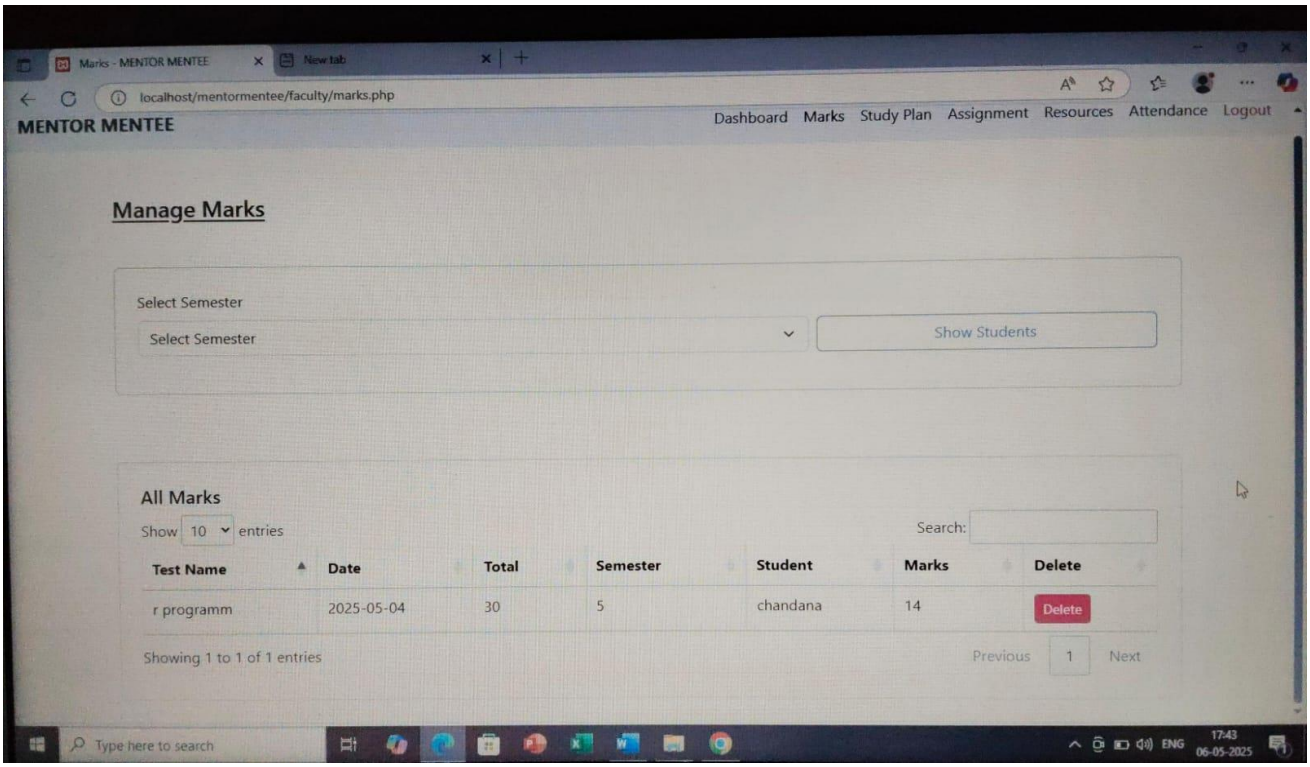

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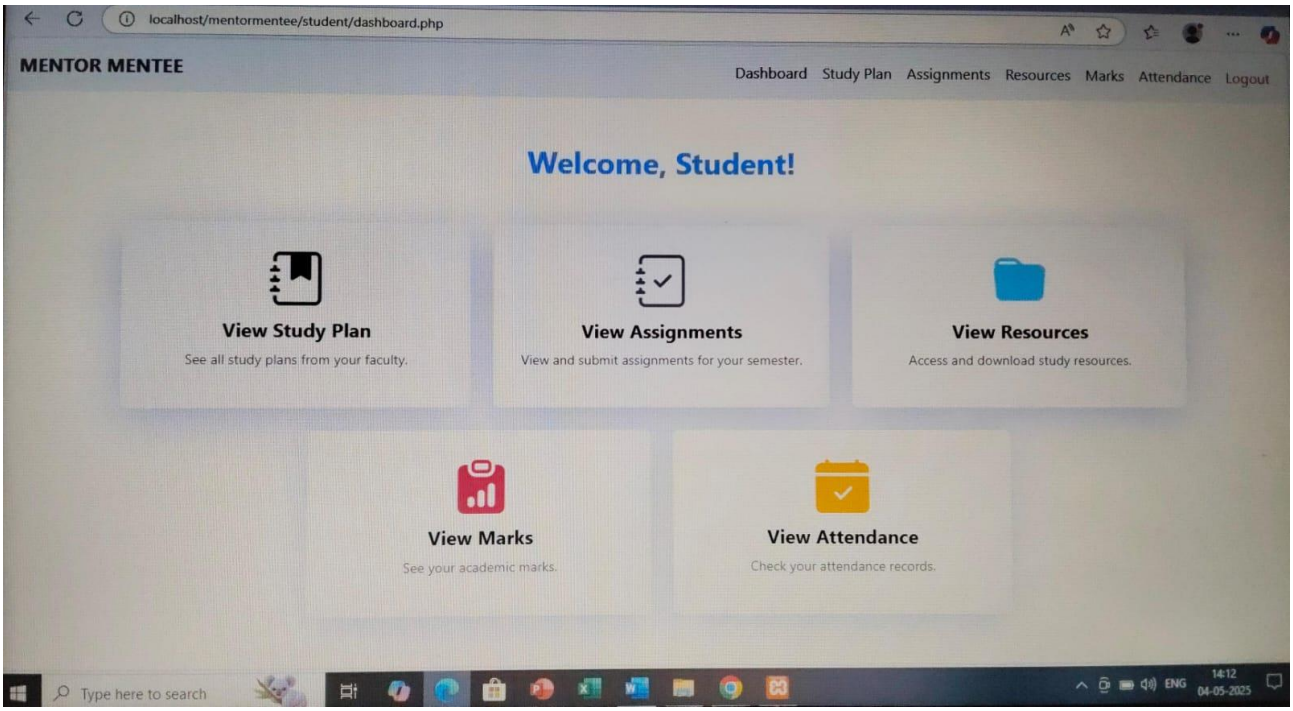


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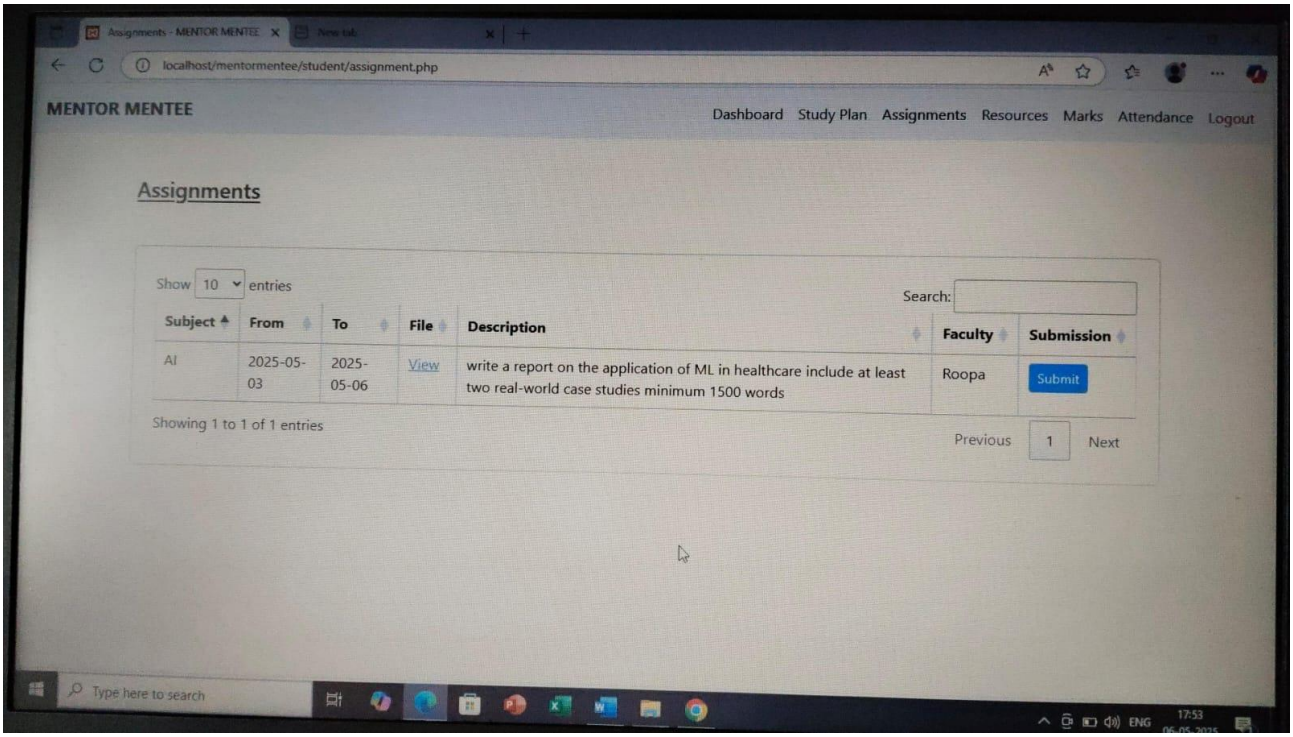

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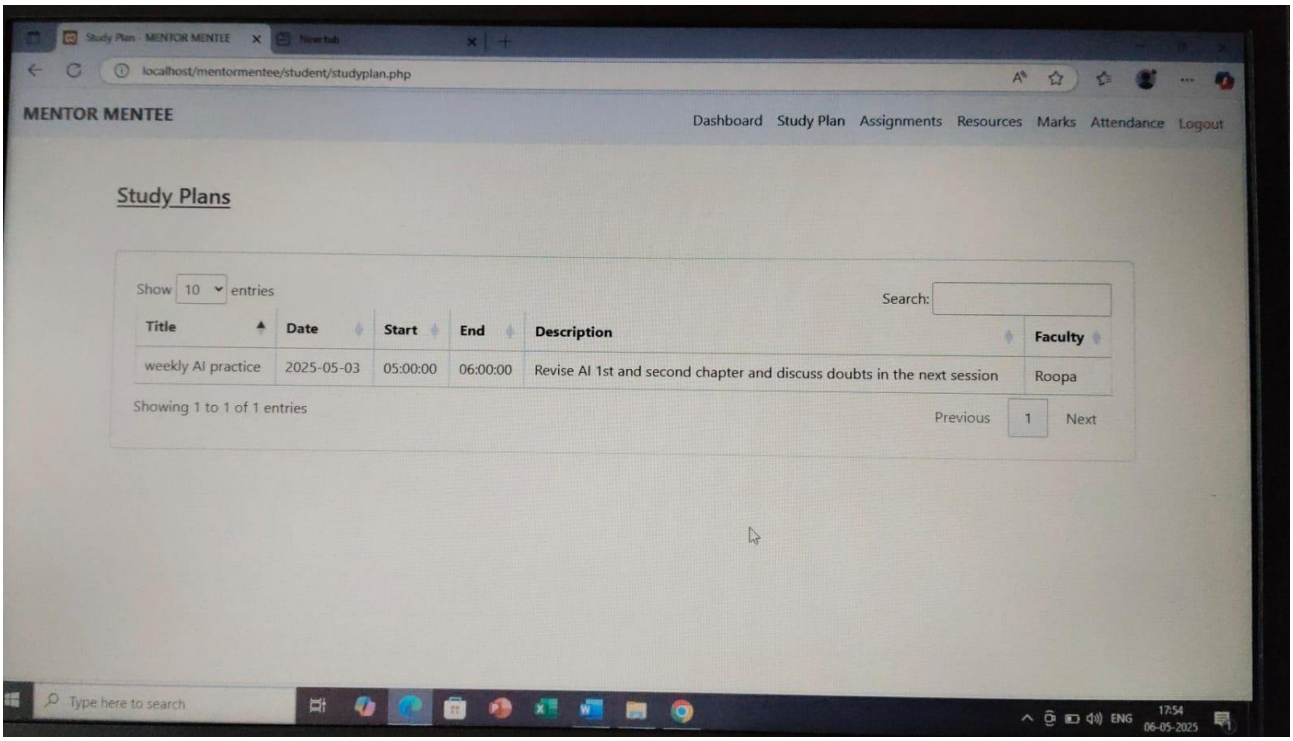


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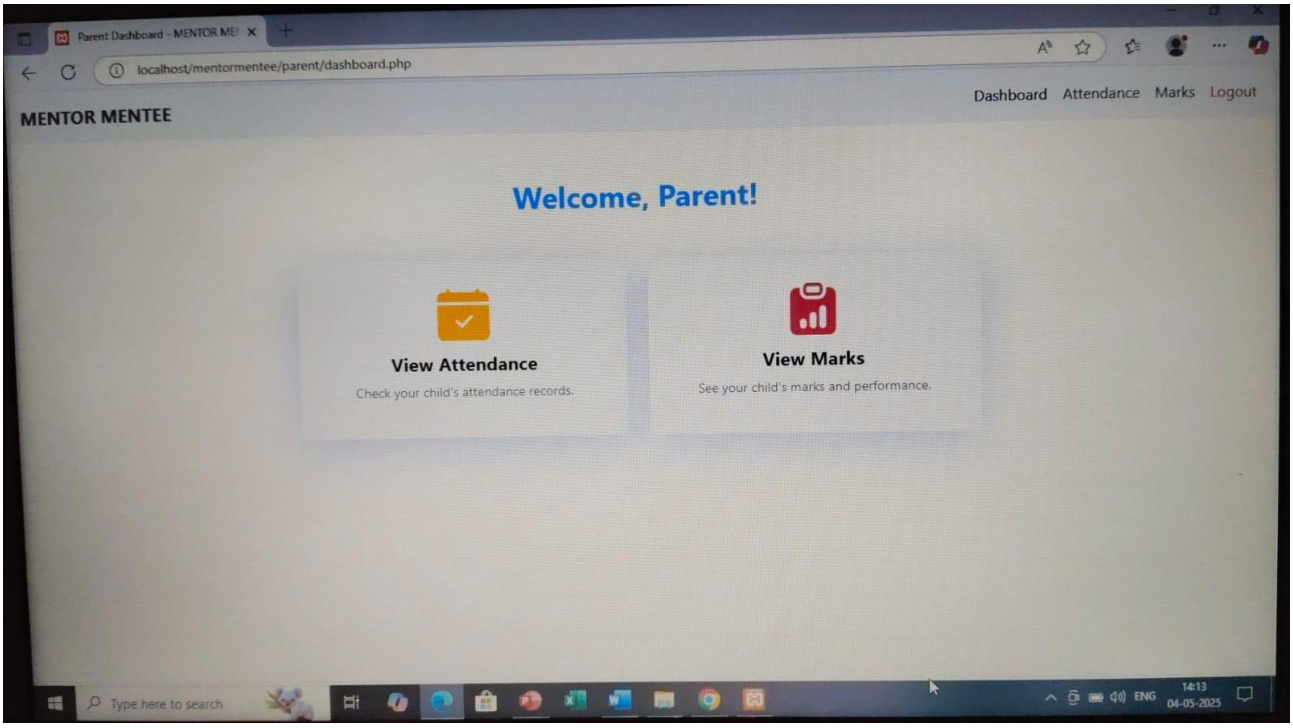

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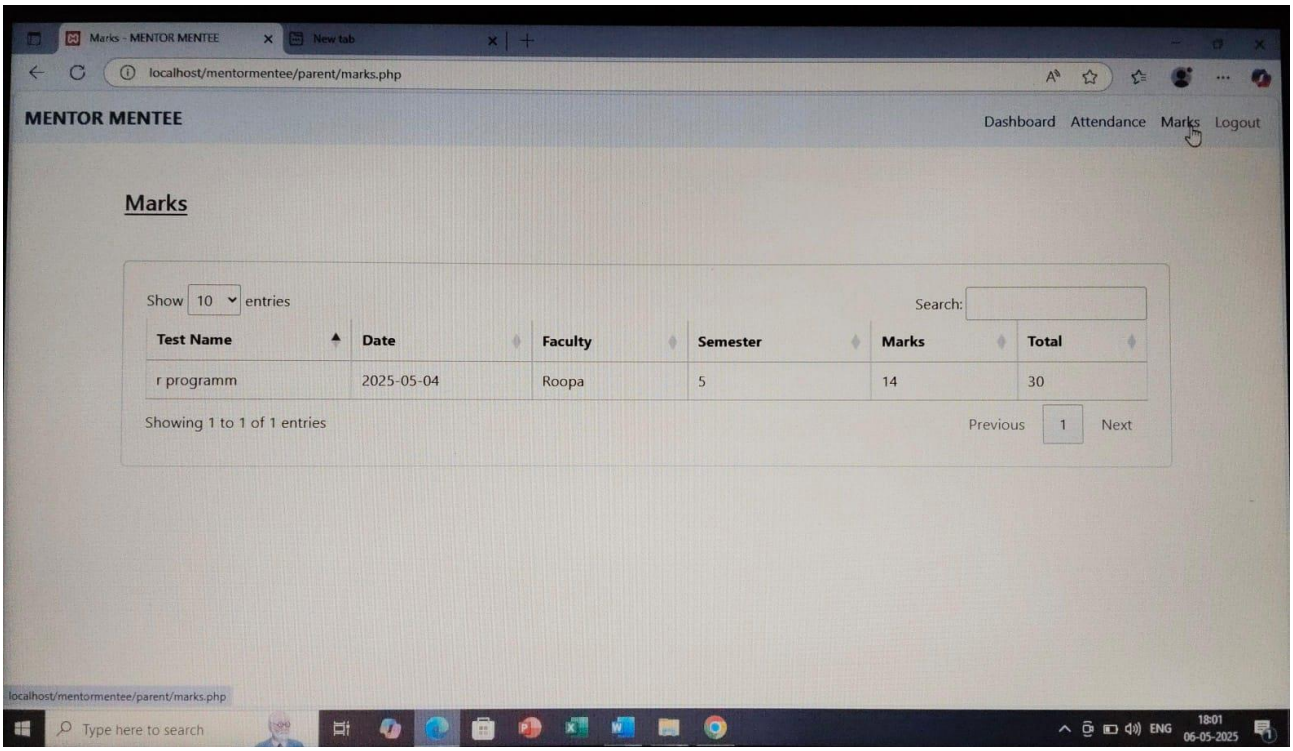


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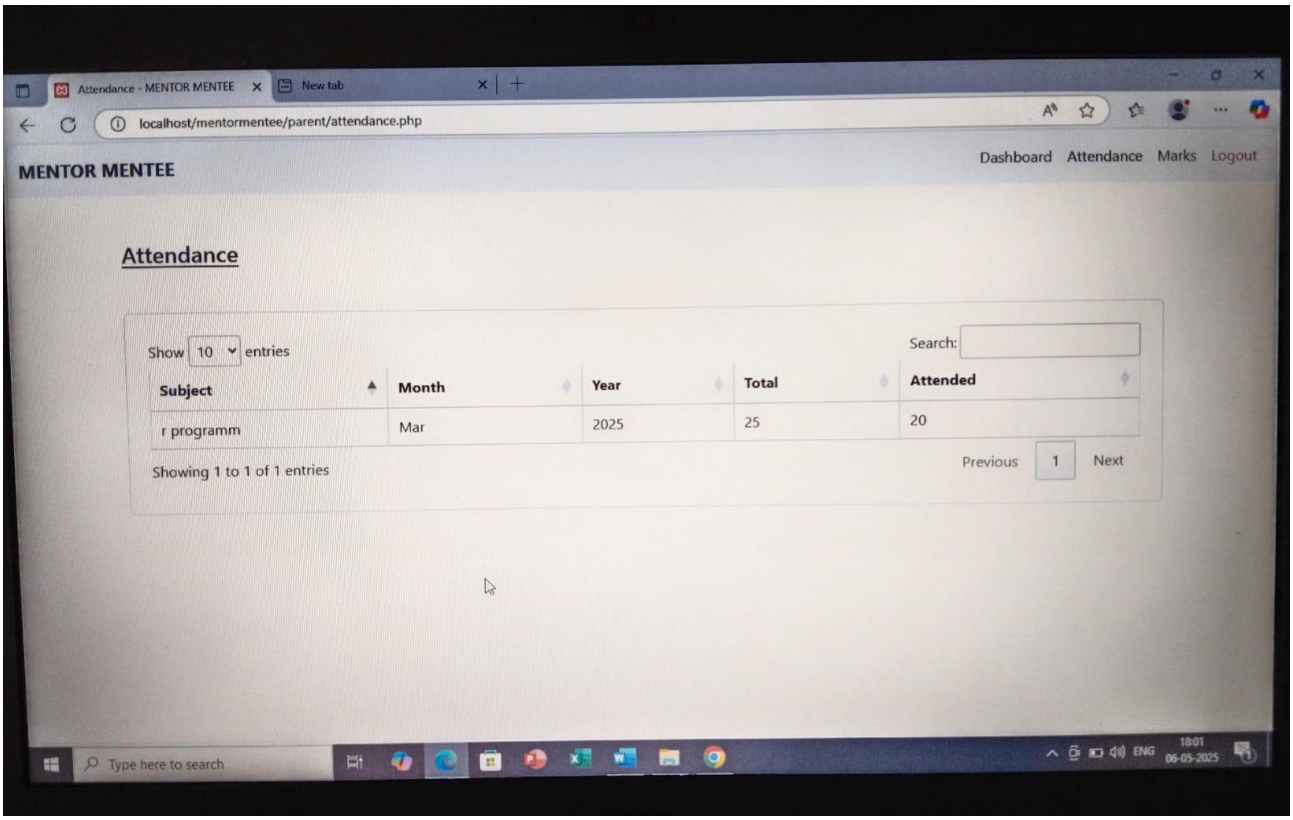

## 7. CONCLUSION

The Mentor-Mentee Management System has been developed to streamline and enhance the mentorship process within an institution or organization.

This project effectively addresses common challenges such as inefficient communication, lack of progress tracking, and unstructured mentoring. The system facilitates seamless registration, pairing, meeting scheduling, feedback sharing, and performance monitoring. Mentors can easily manage their assigned mentees, track their development, and provide timely guidance. Mentees benefit from structured support, clear goal-setting, and consistent follow-ups from their mentors. A user-friendly interface ensures that all users can navigate the system with minimal technical skills. Email notifications and reminders help keep both parties informed and engaged.

The platform also includes robust security features to ensure data privacy and user confidentiality. An admin panel provides control over user access, system settings, and monitoring overall engagement. The system's modular design allows for easy upgrades and feature extensions in the future. Analytics and reporting tools empower administrators to evaluate mentorship effectiveness. The Mentor-Mentee Management System improves the efficiency of mentorship programs. It offers a structured platform for mentor-mentee interaction, goal tracking, and communication. The system enables smooth registration, intelligent matching, and session scheduling. Mentors can monitor progress, while mentees receive personalized guidance and feedback. A user-friendly interface ensures accessibility for all users. Admins can manage users, view reports, and evaluate mentorship effectiveness. Security and data privacy are prioritized throughout the system.

It is scalable, customizable, and ready for real-world deployment. Early feedback highlights its usefulness and ease of use. Overall, the system supports personal growth and strong mentor-mentee relationships.

# 8. FUTURE ENHANCEMENT

- **Real time communication tools**: implement features like instant messaging and video conferencing to facilitate communication between students, mentors, and administrators.

- **Interactive Discussion Forums**: A space where mentors, mentees, and parents can ask questions, share ideas, and collaborate on topics related to learning.

- **Leaderboards and Achievements**: A leaderboard system will highlight top-performing students based on attendance, assignment scores, and participation-motivating students through healthy competition and recognition.

- **Mobile App integration:** the app will provide easy and fast access to all system features like attendance, marks, assignments, mentor communication, and notification.

# 9. REFERENCES

1. **YouTube.com**
2. **GeeksforGeeks.org**
3. **JavaPoint.com**
4. **TechTarget.com**
5. **W3Schools**