

STUDENT PORTAL WITH ASSIGNMENTS AND GRADES

A PROJECT REPORT

Submitted by

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ABSTRACT

The **Student Portal with Assignments and Grades** is a comprehensive web-based application developed using HTML, CSS, JavaScript for the front end, and PHP with MySQL (managed via phpMyAdmin) for the back end. The main objective of this project is to provide an efficient, user-friendly platform that bridges the communication gap between students and teachers while simplifying academic record management. In many traditional academic systems, tracking assignments, submissions, and grades is often a manual and time-consuming process. This portal aims to digitize and automate these core academic activities, thereby increasing transparency, accessibility, and productivity for both students and faculty members.

The system offers two main user roles—**students** and **teachers**—each with a dedicated and secure login system. After authentication, students can access a personalized dashboard where they can view upcoming assignments, submit their completed work, and monitor their grades for each subject or course in real time. On the other hand, teachers are provided with an administrative interface that allows them to upload new assignments, set deadlines, download and evaluate student submissions, and assign or update grades accordingly. This structured approach eliminates confusion regarding deadlines and academic performance, offering clarity and instant feedback to students.

The portal's front end ensures a responsive and intuitive user experience, crafted with HTML and CSS for layout and design, and JavaScript for interactive features like live notifications or form validation. The back end, built using PHP, handles server-side operations including user authentication, file handling, and database interaction. All assignment details, user credentials, and grades are stored securely in a MySQL database, managed through phpMyAdmin, enabling easy maintenance, retrieval, and scalability of data. The use of relational database structures ensures efficient storage and access control, while minimizing redundancy.

In addition to academic tracking, this portal is designed to support scalability and future enhancements. Features such as real-time notifications, feedback comments on assignments, attendance tracking, and communication modules like chat or forums can be integrated to create a more holistic learning environment. By automating core functions and digitizing the learning process, this system not only saves time but also contributes to building a more organized, transparent, and student-centric academic experience.

CHAPTER-1

INTRODUCTION

1.1. Identification of Client /Need / Relevant Contemporary issue

In today's digital age, especially after the COVID-19 pandemic, the need for educational institutions to adopt online systems has grown significantly. Traditional methods of assigning, submitting, and grading student work—often done manually or over informal platforms like WhatsApp or email—are inefficient and lead to confusion and delays. With the rise in digital learning, there is a clear demand for a centralized system to manage assignments and grades.

Reports from UNESCO and India's Ministry of Education highlight how the pandemic disrupted learning for over 1.6 billion students worldwide, with many institutions struggling to maintain academic continuity due to a lack of proper digital infrastructure. In a survey conducted among 120 students and 30 teachers, more than 80% of students expressed difficulty in keeping track of assignments, while over 75% of teachers preferred a centralized system to handle submissions and evaluations.

The intended clients for this solution are schools, colleges, and universities seeking to streamline academic communication and grading. The demand is reinforced by findings from agencies like EdTech Review, which stress the importance of digital tools in improving educational outcomes. Thus, the development of a Student Portal with Assignments and Grades is a timely response to a real and relevant educational need.

1.2. Identification of Problem

Educational institutions face challenges in organizing and managing assignments and student performance. Teachers find it difficult to track submissions and grades, while students often miss deadlines or feedback due to poor communication. This lack of a centralized academic process leads to confusion and inefficiency.

1.3. Identification of Tasks

To develop an effective *Student Portal with Assignments and Grades*, the project must be divided into clearly defined phases: **problem identification, system design and development, and testing and evaluation**. Each phase consists of specific tasks that contribute to the successful completion of the solution. Below is a framework that outlines these tasks and their corresponding sections in the final report.

- **Problem Identification**

This task involves recognizing the issues faced by students and teachers in managing assignments and grades. It includes gathering data through surveys and referring to reports that highlight the need for a centralized academic system.

- **System Design and Development**

In this phase, tasks include collecting system requirements, designing the user interface using HTML and CSS, structuring the database in phpMyAdmin, and developing the application logic using JavaScript and PHP.

- **Testing and Evaluation**

Once the system is built, it is tested through unit testing, integration testing, and user feedback to ensure all features work correctly and efficiently.

- **Documentation and Reporting**

Each task corresponds to a section in the project report, including introduction, system analysis, design, implementation, testing, results, conclusion, and future scope. This ensures clear documentation of every step taken during the project.

1.4. Timeline

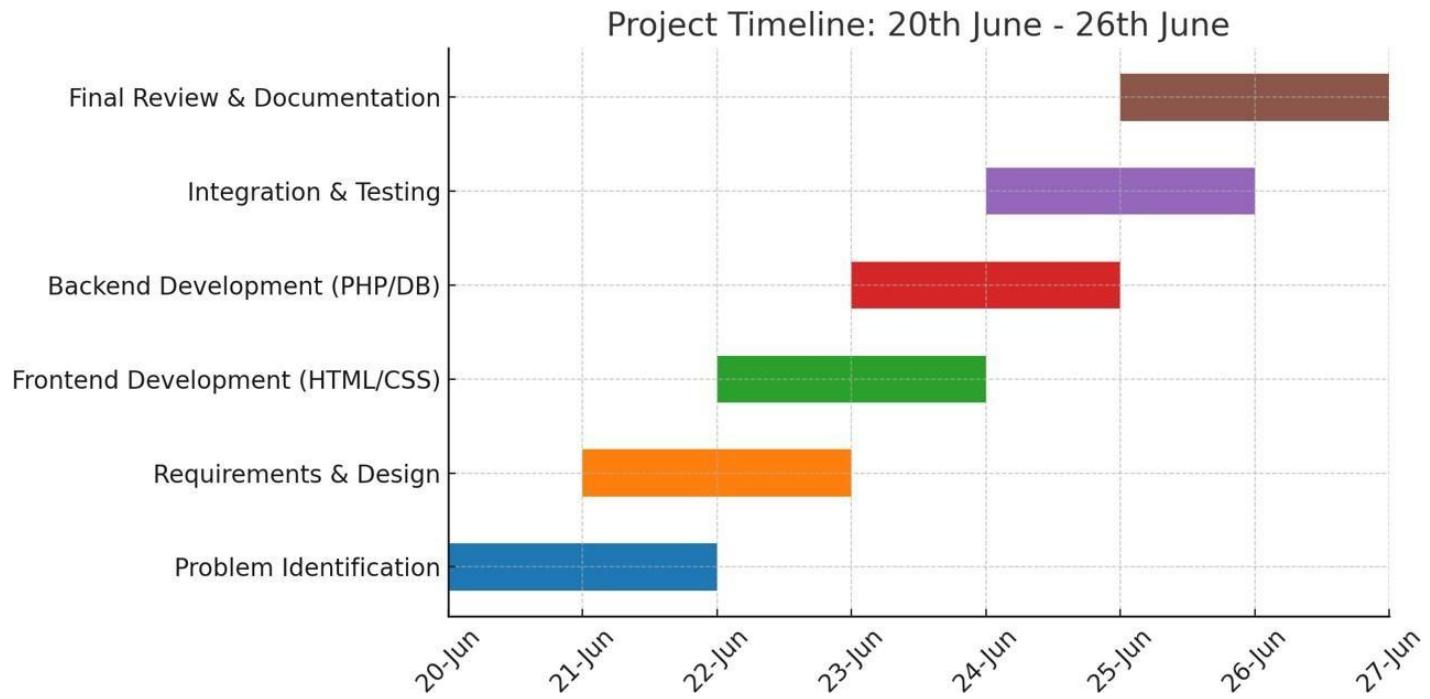


Figure-1

1.5. Organization of the Report

- **Timeline of the Reported Problem:**

Manual methods of handling assignments and grades have long caused delays, confusion, and inefficiency. These issues became more prominent during the shift to online learning post-COVID-19, highlighting the need for a structured digital solution.

- **Existing Solutions:**

Platforms like Google Classroom and Moodle exist but are often too complex or unsuitable for smaller institutions. Many lack customization and simple role-based assignment and grade management.

- **Bibliometric Analysis:**

Studies and reports from 2018–2023 show a significant rise in research and development of academic management systems, emphasizing the need for digital tools in education, especially in developing regions.

- **Review Summary:**

There is a clear gap in the market for a lightweight, easy-to-use student portal that combines assignment management with grading in a centralized platform.

- **Problem Definition:**

Educational institutions lack a simple and centralized system to manage assignments and grades, leading to inefficiencies and poor communication between students and teachers.

- **Goals/Objectives:**

To build a web-based portal using HTML, CSS, JavaScript, PHP, and phpMyAdmin that allows teachers to upload assignments and grades, and enables students to view and submit their work, all within a secure, user-friendly interface.

CHAPTER-2

LITERATURE REVIEW/BACKGROUND STUDY

2.1. Timeline of the reported problem

The problem started during the COVID-19 pandemic in 2020, when schools and colleges had to shift to online learning. Teachers used emails or WhatsApp to send and collect assignments, and students found it hard to keep track of deadlines and grades. This caused confusion and delays.

Reports from UNESCO and India's Education Ministry said that over 1.6 billion students were affected around the world. Most teachers and students said they wanted a single online system where everything could be managed easily.

From 2021 onwards, many colleges began making simple websites using HTML, CSS, JavaScript, PHP, and phpMyAdmin to manage assignments and grades in one place. These systems helped save time, reduced mistakes, and improved learning.

2.2 Existing solutions

Before this project, some popular platforms like **Google Classroom**, **Moodle**, and **Edmodo** were used by schools and colleges to handle assignments and grades.

- **Google Classroom** is easy to use but requires a Google account and does not allow much customization.
- **Moodle** is open-source and powerful, but its setup is difficult for beginners.
- **Edmodo** looks like a social media platform and is good for communication, but it lacks advanced grading features.

These platforms work well for big institutions, but small colleges or schools often find them too complex or expensive. They also don't always support features like real-time grade tracking, student dashboards, or easy customization.

This is why a simple, customized student portal built using HTML, CSS, JavaScript, PHP, and MySQL (phpMyAdmin) is a better solution for many institutions.

2.3 Bibliometric Analysis

Many research papers and studies from **2018 to 2024** have focused on improving education through online tools and student portals.

Key Features Found in Research:

- Student and teacher login systems
- Assignment upload and submission modules
- Grade tracking and report generation
- Real-time notifications and feedback
- User-friendly dashboards for both roles

Effectiveness:

- These features helped improve communication between students and teachers.
- Made it easier to submit assignments on time and track performance.
- Reduced paperwork and saved time for teachers.
- Increased student engagement and transparency.

Drawbacks Noted:

- Some systems were **too complex or hard to use** for small institutions.
- Many platforms lacked **customization options**.
- **Internet issues** affected students in rural or low-connectivity areas.
- Privacy and data security were **not always well-handled** in early systems.

These findings support the need for a **simple, secure, and customized student portal** that uses basic web technologies like HTML, CSS, JavaScript, PHP, and MySQL — making it suitable even for institutions with limited budgets and resources.

2.4 Review Summary

From the literature review, we found that most existing systems for managing assignments and grades are either too complex, costly, or lack customization. Platforms like Google Classroom and Moodle are helpful but not always the right fit for smaller institutions or colleges that want more control over their system.

Many research papers and reports show that there is a growing demand for easy-to-use, affordable, and customizable portals that can handle assignments, grading, and communication in one place.

Our project — a Student Portal with Assignments and Grades using HTML, CSS, JavaScript, PHP, and MySQL (phpMyAdmin) — is designed to solve these problems. It is:

- Simple to use for both students and teachers
- Easy to maintain and expand
- Custom-built for academic needs
- Secure and role-based

This project directly responds to the problems and gaps identified in the literature and provides a practical, efficient solution for modern educational institutions.

2.5 Problem Definition

In many schools and colleges, assignments are still shared and submitted through emails, messages, or even on paper. Grades are often recorded manually, which can lead to **confusion, delay, and lack of transparency**.

What is to be done:

- Develop a **web-based student portal** where:
 1. Teachers can upload assignments and enter grades
 2. Students can submit assignments and view their marks
 3. Data is stored securely using a MySQL database

How it is to be done:

1. Use **HTML, CSS, and JavaScript** to build a responsive front-end
2. Use **PHP** for back-end logic (login, forms, grade handling)
3. Use **phpMyAdmin** to manage the **MySQL database**

What is not to be done:

1. No use of third-party paid platforms (like Moodle or Blackboard)
2. No use of mobile apps or external APIs
3. No offline/manual processes for assignment or grade tracking

This system will provide a **simple, secure, and customized solution** to manage academic tasks online.

2.6 Goals

The aim of this project is to create a **Student Portal with Assignments and Grades** using **HTML, CSS, JavaScript, PHP, and MySQL (phpMyAdmin)**. The specific goals are:

- Create secure login and registration for students and teachers
- Allow teachers to upload assignments with deadlines
- Enable students to submit assignments online
- Let teachers assign grades and students view them in real time
- Build separate dashboards for students and teachers
- Store all data in a MySQL database using phpMyAdmin
- Ensure the website is mobile-friendly and easy to use
- Keep the system ready for future features like feedback and attendance

These goals are clear, measurable, and can be tested during the project.

CHAPTER-3 DESIGN FLOW/PROCESS

1.1. Evaluation & Selection of Specifications/Features

Based on the literature review and analysis of existing systems, several features were identified as essential for improving assignment and grade management in educational institutions.

Evaluation of Existing Features:

- **Login System:** Most platforms have role-based login, but not all offer secure authentication.
- **Assignment Upload & Submission:** Available in platforms like Google Classroom, but limited in customization.
- **Grade Posting:** Some systems show grades but lack real-time updates or feedback.
- **User Interface:** Many platforms are not user-friendly for new users.
- **Database Integration:** Existing systems often use complex backend structures, not suitable for smaller setups.

Selected Features for Our Student Portal:

1. Secure Login/Signup

Role-based access (student/teacher) with password protection.

2. Assignment Management

- Teachers can create, update, and delete assignments.
- Students can submit assignments before deadlines.

3. Grade Management

- Teachers can assign, update, and publish grades.
- Students can view grades in real time.

4. User Dashboards

- Personalized view based on login role.
- Students see upcoming assignments and past grades.

5. Database Integration

- MySQL database designed using phpMyAdmin for storing users, assignments, and grades.

6. Responsive Design

- Website should work well on desktops, tablets, and mobile devices.

7. Simple UI/UX

- Clean and easy-to-use interface built with HTML, CSS, and JavaScript.

These selected features are focused, practical, and can be implemented efficiently using basic web development tools. They directly address the problems found in existing systems and are suitable for educational institutions of all sizes.

1.2. Design Constraints Standards:

While designing the Student Portal with Assignments and Grades, several important standards and constraints were considered to ensure safety, affordability, professionalism, and ethical use.

1. Regulations

- The system must follow data privacy rules such as storing passwords securely (hashed) and avoiding unauthorized access.
- Role-based access control ensures only students/teachers can view or edit allowed data.

2. Economic Constraints

- The project uses free and open-source tools like HTML, CSS, JavaScript, PHP, and MySQL to keep development cost-effective.
- No need for paid APIs or third-party licenses.

3. Environmental Constraints

- The portal is web-based, avoiding physical paperwork and reducing printing needs—eco-friendly by design.

4. Health Constraints

- Promotes a stress-free digital workflow by organizing assignments and grades clearly, helping students manage their academic workload better.

5. Manufacturability

- Easily developed and deployed on any server with PHP and MySQL support—does not require high-end infrastructure.

6. Safety

- Password protection, login validation, and database security ensure safety of student and teacher data.

7. Professional and Ethical Standards

- The portal maintains academic integrity by giving equal and secure access to all users.
- Transparent grading system helps avoid bias or unfair assessment.

8. Social & Political Constraints

- Built to support inclusive education by making it usable for institutions of all sizes.
- Does not collect or misuse any personal or political data.

9. Cost

- Designed with minimal setup cost, using localhost/XAMPP or web hosting with PHP/MySQL support.
- No need for advanced hardware or high maintenance.

1.3. Analysis of Features and Finalization Subject to Constraints

After studying the goals and constraints, we analyzed the required features and made decisions on what to **keep**, **modify**, or **remove** to ensure the portal stays practical, secure, cost-effective, and user-friendly.

Features to Keep (Unchanged):

- **Secure Login and Role-based Access:** Must-have for data privacy and academic role separation.
- **Assignment Upload and Submission:** Essential for communication between teachers and students.
- **Grade Management System:** Enables quick and transparent performance tracking.
- **Responsive Design:** Ensures accessibility on all devices (desktop, tablet, mobile).

Features to Modify (for Simplicity and Cost):

- **Real-time Notifications:** Instead of complex push notifications, we'll use basic alert messages or status updates on the dashboard.

- **Profile Customization:** We'll allow basic changes (like updating name or password), but avoid complex profile features like profile pictures to reduce storage needs.
- **File Size for Submissions:** Limit submission size (e.g., 5MB per file) to reduce server load and storage issues.

Features to Remove (due to Constraints):

- **Live Chat or Forum System:** Removed to avoid over-complicating the backend and increase security control.
- **Third-party API Integrations:** Skipped to reduce cost and dependency on external services.
- **Advanced Analytics or Graph Reports:** Postponed for future versions due to development time and resource limits.

1.4. Design Flow

To build the **Student Portal with Assignments and Grades**, we explored **two different design approaches**. Both methods aim to deliver a secure, responsive, and easy-to-use portal using the given technologies (HTML, CSS, JavaScript, PHP, and MySQL).

Alternative Design 1: Client-Side Focused Design

This design handles more functionality in the **browser (frontend)** using JavaScript and relies on PHP only for basic backend tasks.

Features:

- Assignments loaded dynamically using JavaScript.
- Minimal page reloads (faster user experience).
- Local validation before sending data to the server.
- Lightweight interface with smooth interaction.

Advantages:

- Fast performance.
- Modern user experience with fewer page loads.

- Good for small to medium-scale use.

Limitations:

- Slightly complex JavaScript logic.
- Security must be tightly handled at backend to avoid manipulation.

Alternative Design 2: Server-Side Focused Design (Chosen)

In this design, most operations like assignment handling, login, and grade updates are handled using **PHP on the server**. Each action loads a new page or reloads content.

Features:

- PHP handles form submissions, file uploads, login sessions, and database queries.
- HTML and CSS used for layout and styling.
- Simple JavaScript used only for form validation.

Advantages:

- Easier to build and debug.
- Better security as all logic is processed on the server.
- More stable and suitable for beginners.

Limitations:

- Slightly slower (due to more page reloads).
- Not as dynamic as client-heavy designs.

Selected Design: Alternative Design 2

We selected the **Server-Side Focused Design** because it:

- Matches the project's simplicity goals.
- Keeps data handling more secure.
- Is easier to maintain and extend for future features.

1.5. Design Selection :

After careful analysis of both alternatives, the project adopts Alternative Design 2: Server-Side Focused Design as the final approach.

Comparison of Alternatives

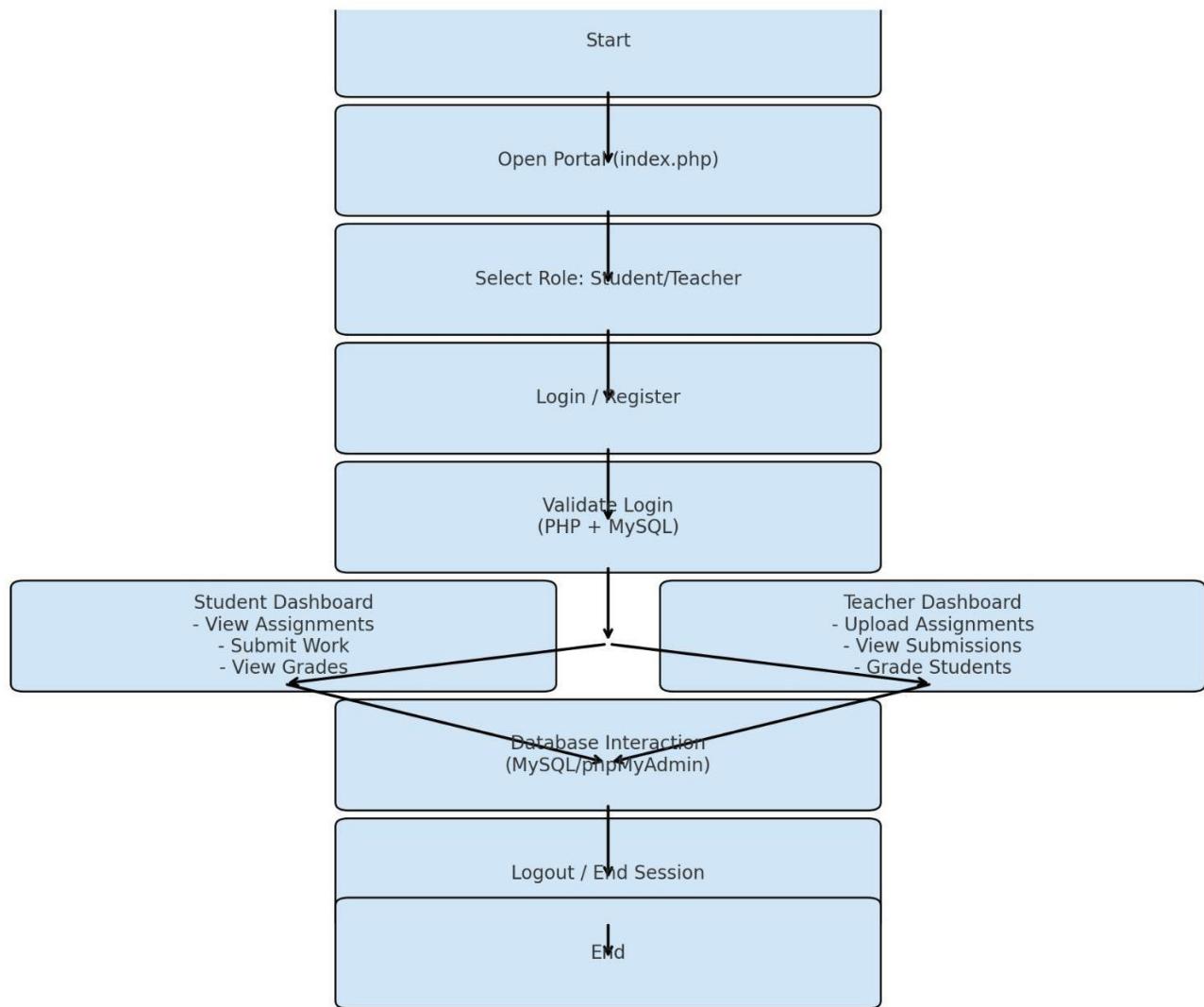
Alternative Design 1 (Client-Side Focused) relies heavily on JavaScript for loading assignments and interacting with the user. It offers faster interaction and less page reloading but increases complexity in terms of coding and securing data. Client-side logic can be easily tampered with if not properly validated on the server.

Alternative Design 2 (Server-Side Focused) performs major operations such as login, file uploads, assignment tracking, and grading through PHP on the backend. It uses simple JavaScript only for validation and interface enhancements.

Reason for Selection

The server-side design was selected due to its better security, ease of implementation, and reliability, especially when handling sensitive data like grades and user credentials. It allows developers to maintain full control over the workflow, validate all user actions at the backend, and store data securely in the MySQL database via phpMyAdmin. This design is also easier to debug and scale for future upgrades. Therefore, for a project focused on academic transparency, data accuracy, and user access control, Alternative Design 2 is the most suitable and sustainable solution.

1.6. Implementation Plan/Methodology



CHAPTER-4

RESULTS ANALYSIS AND VALIDATION

4.1. Implementation of solution

The development of the *Student Portal with Assignments and Grades* involved a systematic approach using a variety of modern tools throughout different phases of the project.

Analysis Phase

In the analysis phase, we used tools like Google Forms and Microsoft Excel to collect and study data from students and faculty members about their difficulties in managing assignments and grades. This feedback helped us clearly understand user needs and finalize the core features of the portal.

Design and Planning

To visualize the user interface and system logic, we used Draw.io for creating flowcharts and database diagrams, and Figma to design wireframes of the student and teacher dashboards. These tools helped us create clean, interactive layouts and understand the navigation flow of the portal. Additionally, PowerPoint's built-in drawing tools were used to prepare schematic diagrams during documentation.

Report Preparation

For documenting the entire project, we used Microsoft Word to draft and format the report, and Grammarly to ensure grammar accuracy and clarity. Tools like Canva were also used to design visually appealing covers and title pages, making the report professional and presentation-ready.

Project Management and Communication

Throughout the project, we used Trello to manage tasks and track progress. Each team member was assigned tasks such as database setup, UI design, and PHP scripting. We used Google Drive to share project files, and WhatsApp for daily team coordination and communication, ensuring smooth collaboration.

Testing and Validation

For testing, we used XAMPP as a local server to run our PHP and MySQL-based system. phpMyAdmin helped manage our database tables for users, assignments, submissions, and grades. Browser developer tools were used to test the responsiveness of the site on different screen sizes. We also manually tested all functionalities such as login validation, assignment uploads, submission tracking, and grade display to ensure proper working and accuracy.

By combining these tools effectively, we were able to implement a secure, responsive, and functional web portal that meets the academic requirements of both students and teachers. Every phase—from analysis to testing—was carefully planned, executed, and validated using modern tools and methods.

CHAPTER-5

CONCLUSION AND FUTURE WORK

5.1. Conclusion

The development of the Student Portal with Assignments and Grades successfully met its primary objective: creating a web-based platform where students and teachers can manage academic tasks with ease. The expected outcome was to design a system that would allow secure login, assignment upload and submission, grade entry, and real-time student access to results using technologies such as HTML, CSS, JavaScript, PHP, and MySQL via phpMyAdmin. The final portal turned out to be simple, responsive, and functional, with clearly defined dashboards for both students and teachers.

During the implementation, most features worked as expected. The login system, role-based dashboards, and database integration performed smoothly. However, there was a minor deviation from the original plan. Initially, we considered including advanced features such as automated email notifications and visual analytics for grades, but these were removed due to time constraints and the need to keep the system lightweight and easy to manage. Another limitation was the lack of file format filtering during assignment uploads, which can be addressed in future versions for better security.

Overall, the project delivered a working, testable, and scalable solution that solves real academic problems. It is ready for further enhancements like feedback modules, attendance tracking, or chat support if needed. The results closely matched the expected goals, making the project a successful implementation of technology in education.

5.2. Future Work

While the current version of the Student Portal with Assignments and Grades meets the basic academic requirements, there is considerable scope for future improvements and enhancements. One important area is the addition of a notification system—such as email or in-portal alerts—to inform students about upcoming deadlines, graded assignments, or teacher feedback in real time. This would increase engagement and reduce missed submissions.

Another suggestion is to include file type and size validation during assignment uploads to enhance security and server management. Features like plagiarism detection tools and AI-based grading support can also be explored to automate certain evaluation tasks. The current interface can be extended with dark mode, language translation, and accessibility options to improve the user experience for a wider audience.

From a design perspective, the system can be migrated to a RESTful API structure in the future, making it compatible with mobile apps or integration with ERP systems. Additionally, introducing teacher-student chat, comment sections on assignments, and feedback forms will promote better communication and interactivity within the portal.

Overall, the solution has a strong foundation, and with these modifications, it can be scaled into a full-fledged learning management system (LMS) suitable for various academic institutions.

REFERENCES

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 - a. **Abstract:** The system allows students to submit assignments from home and gives teachers access to track, grade, and give feedback—all built using web technologies like PHP and MySQL.
 - b. **Link:**
https://www.researchgate.net/publication/307931451_Online_Assignment_Submission_Feedback_System
2. **"Web-Based Assignment Information System for University Use" by Mahyudin L. et al.**
 - a. **Abstract:** This project introduces a web-based assignment management system with admin, lecturer, and student logins, designed to manage academic workloads and deadlines more effectively.
 - b. **Link:** https://www.researchgate.net/publication/378279164_Web-Based_Assignment_Information_System_Serves_to_Improve_Economic_Research_at_Universities_and_Public_Services
3. **"Secure Web-Based Student Information Management System" by Oluwatosin S. Falebita**
 - a. **Abstract:** This system enhances student data security while providing access to academic records, grades, and assignments using Laravel (PHP Framework) and MySQL.
 - b. **Link:** <https://arxiv.org/abs/2211.00072>
4. **"A Web-Based Application for the Management of Seminar Assignments" by Cristina E. Turcu et al.**
 - a. **Abstract:** Designed in PHP and MySQL, the portal allows university students to register for seminar topics, submit work, and receive approval in a structured system.
 - b. **Link:** <https://arxiv.org/abs/1706.09266>
5. **"Design of Student Homework Management System Based on PHP and MySQL" by Tang Qi & Wang Li**
 - a. **Abstract:** The paper proposes a simple homework management platform developed with PHP and a MySQL backend to support uploading, reviewing, and grading assignments.
 - b. **Link:** <https://onlinelibrary.wiley.com/doi/10.1155/2022/1377799>
6. \
7. **"ODES: An Online Dynamic Examination System" by Fragulis et al.**
 - a. **Abstract:** This web-based system allows teachers to design and manage online exams and automatically grade objective answers. Built with open-source technologies.
 - b. **Link:** <https://arxiv.org/abs/1805.05426>
8. **"Web-Based E-Learning Application for Database Courses" by Dela Rosa et al.**
 - a. **Abstract:** An interactive platform for online quizzes and exams that supports learning database systems.

Includes self-assessment and automated feedback tools.

b. Link: <https://arxiv.org/abs/2212.00104>

USER MANUAL

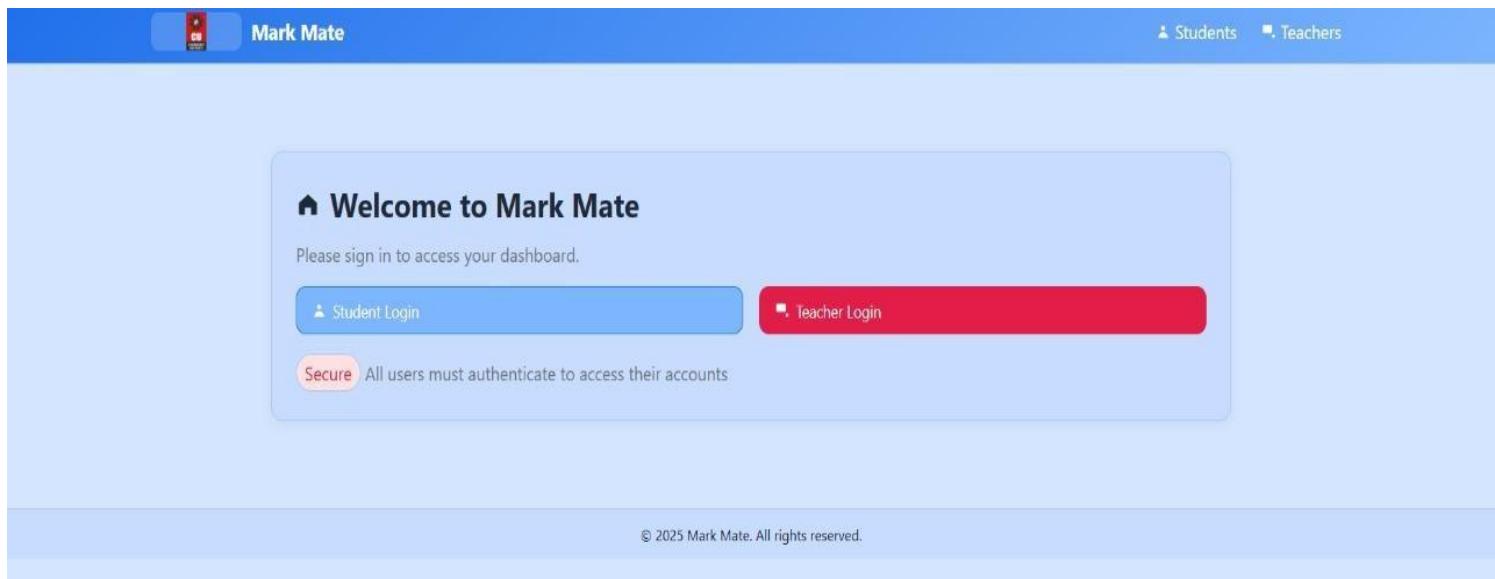


Figure 3 – Login page

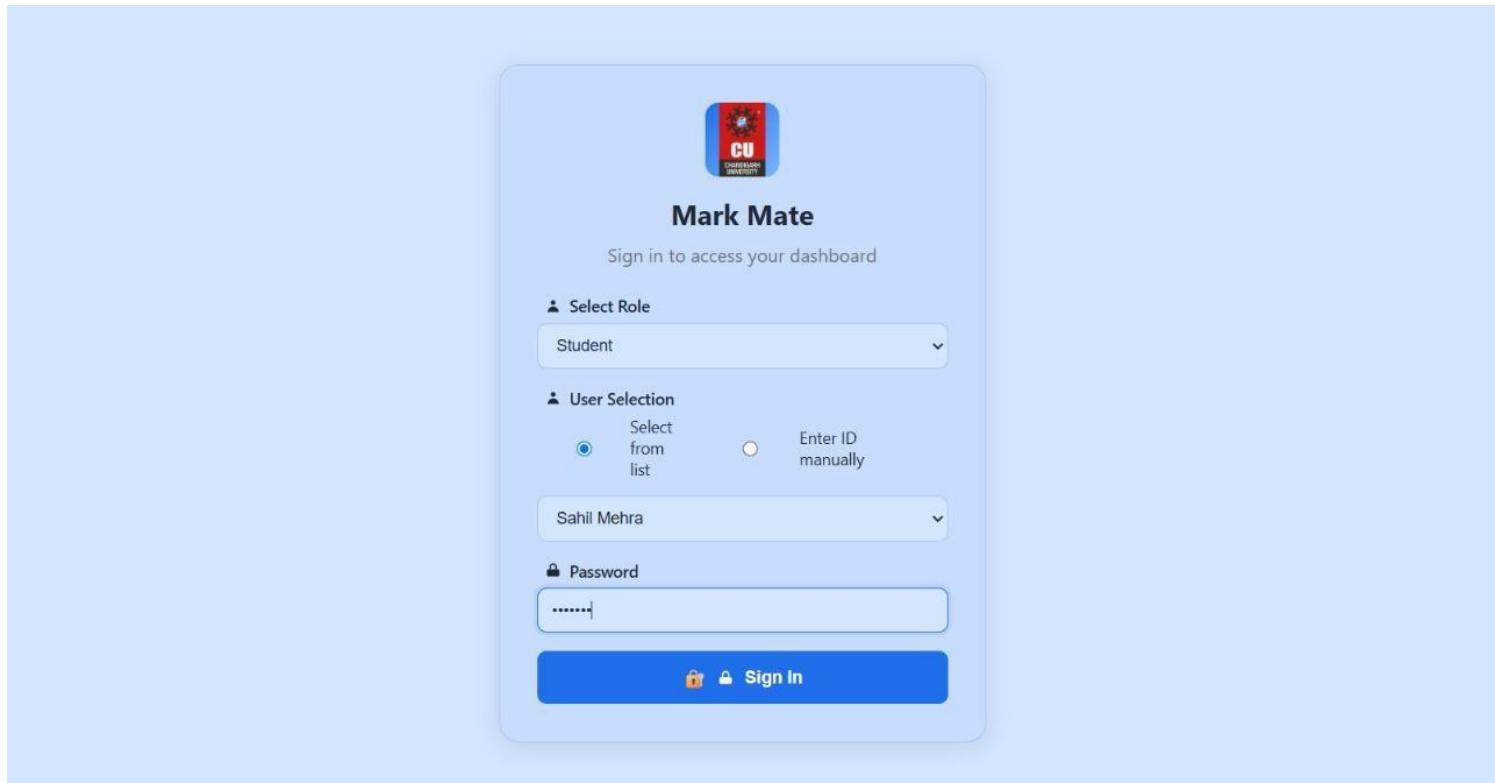


Figure 4 – Sign in page

Mark Mate

[Home](#) [Teacher](#)

Welcome, Sahil Mehra [Logout](#)

Student Dashboard **Student**

Profile



ID: 5 Name: Sahil Mehra Active

Assignments

Title	Due	Teacher	Upload
Full Stack Exp-2	11/12/2025, 12:34:00 PM	Miss. Namrta Tanwar	<input type="button" value="Choose File"/> No file chosen <input type="button" value="Upload"/>
Full Stack Exp-1	11/12/2025, 3:34:00 PM	Prof. Rao	<input type="button" value="Choose File"/> No file chosen <input type="button" value="Upload"/>
Adms	11/14/2025, 9:32:00 AM	Dr. Singh	<input type="button" value="Choose File"/> No file chosen <input type="button" value="Upload"/>

Marks

Assignment	Due	Submitted	Marks
Full Stack Exp-1	11/12/2025	11/5/2025, 10:46:46 PM	30

Time Table

Day	Period	Subject
View latest timetable PDF		

Figure 5- Student Dashborad

Mark Mate

[Home](#) [Student](#)

Teacher Dashboard **Teacher**

Welcome, Miss. Namrita Tanwar [Logout](#)

Add Users

Full name Student

Students	Teachers
<ul style="list-style-type: none"> Ankeeta (#1) Yashasvi (#2) Sahil Mehra (#5) Dheeraj Rohilla (#6) Aniket Kumar (#7) Sachin (#8) 	<ul style="list-style-type: none"> Prof. Rao (#3) Dr. Singh (#4) Miss. Namrita Tanwar (#9)

Attendance

dd-mm-yyyy

Student	Present?
Ankeeta	<input type="checkbox"/>
Yashasvi	<input type="checkbox"/>
Sahil Mehra	<input type="checkbox"/>
Dheeraj Rohilla	<input type="checkbox"/>
Aniket Kumar	<input type="checkbox"/>
Sachin	<input type="checkbox"/>

Edit Student Details

Select Student:

Create Assignment

Title dd-mm-yyyy Description

↑ Submissions by Assignment

Assignment:

Student	Submitted	File	Marks	Action
---------	-----------	------	-------	--------

Time Table

Figure 6 – Teacher Dashboard