

Web Engineering

Project Detailed Submission

Title of the Project:

EduTrack: College Learning Management System (LMS) Portal

1. Group Name (All members' names)

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2. Guide and Co-Guide Name

- Guide: Dr. Upendra Singh
 - Co-Guide: Prof Shraddha Verma
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3. Field of Title

The project is related to **Web Development** and **Educational Technology**.

4. Background of the Project

Our project effectively manage student progress, it provides personalized learning experiences, and ensures easy access to learning resources . Many existing platforms offer basic course management but often failed to deliver a well-rounded learning environment. Their limitations include a lack of structured progress tracking, limited interaction between students and instructors, and insufficient flexibility in accessing learning materials and most of the platforms do not offer a combination of free and paid courses, real-time engagement through live classes, and structured assignment .

our project addresses these gaps by Developing a comprehensive learning management system 'lms' Portal specifically designed for college students. our platform enables students to enroll in mandatory courses , explore additional paid courses for advanced learning, and Prticipate in live weekendly classes . each courses includes recorded sessions, allowing students to learn at their own pace. Assignments are provided on a weekly basis to reinforce learning, and students can track their progress through a dedicated dashboard.

beyond this learning, our Portal also enhances student-instructor communication by Offering a help desk feature, where students can ask questions and provide feedback from us. admins have the ability to update courses, provide supplementary notes, schedule live

lectures, And monitor student engagement. if a student's progress is unsatisfactory, the system allows admins to contact their parents, Ensuring better accountability.

By Integrating all these essential features into a single platform, our lms aims to create a structured, engaging, and interactive learning experience, helping many students to achieve their goals Effectively.

5. Summary of the Project

The **EduTrack** provide a user-friendly platform for students and admins of colleges. Here students can easily access the free mandatory courses that provide by the admins, additional benefit is that if students wants to learn other subjects that are not related to the academics. They purchase courses, also view recorded lectures, and participate in live classes held on weekends. Admin provide assignments on weekly basis or provide notes. The portal offers the dashboard page where student can track their progress, while admins can manage courses, except payment, communicate with parents via email about their child progress. This system is built using **XAMPP**.

XAMPP, What is Xampp – It is free and open source software that provides a complete environment or setup for developing a software. It provides PHP for developing and testing an application, MYSQL for creating the database where we can store the data in the form of table, Apache(Web server).

6. Detailed Description (Technical details, architecture, and working principle)

Architecture:

- **Front-end:** The portal's front-end is developed using **HTML, CSS, Bootstrap, jQuery and JavaScript**. The User Interface (UI) is designed for simple and ease to use, the UI is very good. Student will not get board. They easily navigate various features like live classes, track progress, submit assignment and much more.
- **Back-end:** The back-end is powered by **PHP**, which interacts with the MySQL database.
- **Database:** The **MySQL** database manages data such as course details, student enrollment information, assignments, and live class schedules. The data is stored in the form of table and retrieved dynamically to provide a better experience.
- **Server:** The application is hosted locally using **XAMPP**, which provides an integrated environment with **Apache** as the web server and **MySQL** as the database server.

Working Principle:

1.Student Login and Course Registration: Students can log in and register in their accounts. After log in they can see many free courses and can purchase more paid courses according to their choice.

2.Live Classes and Sessions: Students can join daily live classes and watch the recorded session after class.

3.Assignments and Feedback: After every week, instructor provides an assignment to the students and they can submit it and also write feedback about the course.

4.Student Dashboard: Students can view their progress of the courses and can access assignments also check their overall performance.

5.Admin Dashboard: The admin can add or update and remove courses and can schedule live classes also manage assignments and monitor feedback. Admin can also contact to parent of student if progress is not as expected.

7. Objective

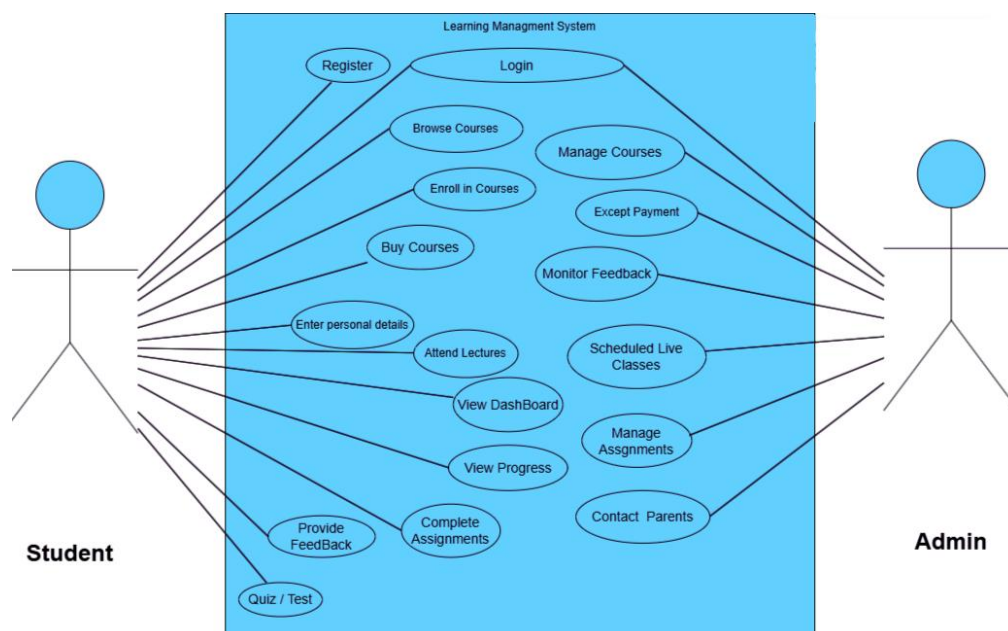
The main objectives of the EduTrack LMS Portal are:

- it Provide students with access to free and paid courses.
- it Allow Students to track their learning Progress through a Personalized dashboard.
- it Facilitate live classes and Recorded sessions for Improved learning.
- it Enable admins to manage Courses, assignments, feedback, and Communicate with students and Parents.
- it Create an interactive Environment for both students and admins, Ensuring smooth Communication and Efficient learning.

8. Drawings/Figures

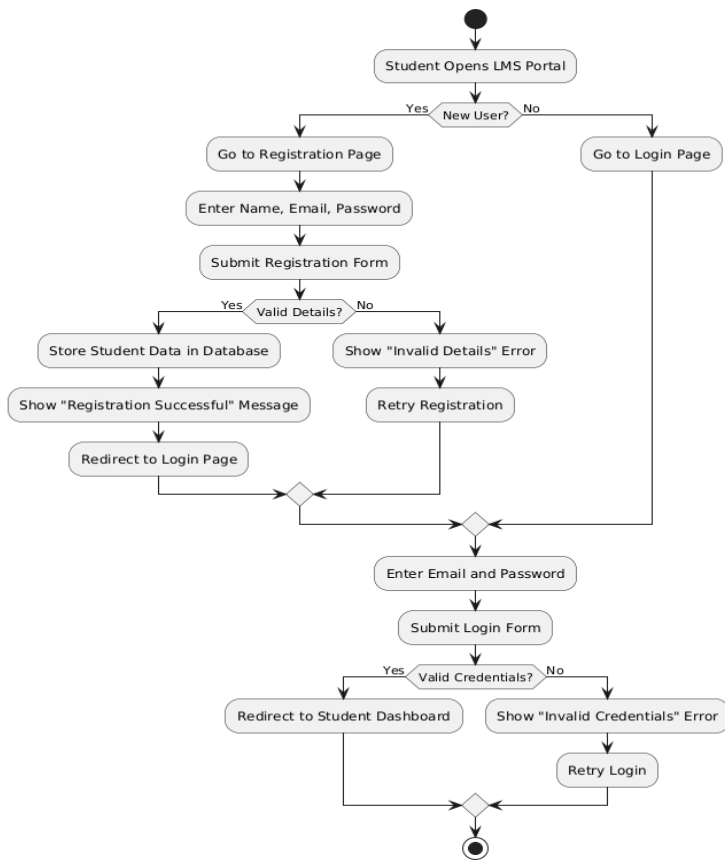
Here are some diagrams to explain the architecture and flowchart of the LMS portal:

1. **Use Case Diagram:** A diagram showing the functionality of the **EduTrack** Learning Management System

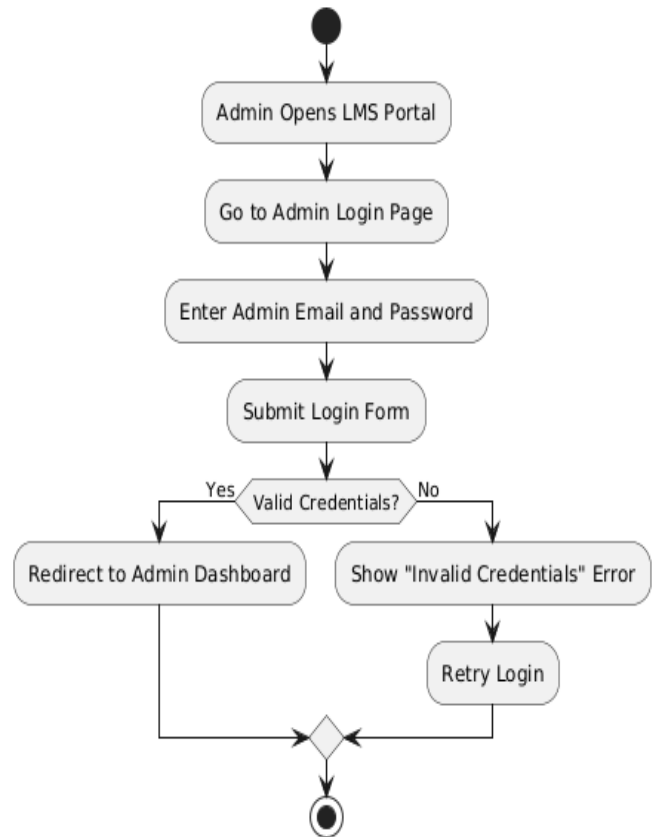


2. Login/Registration Flowchart: A flowchart that outlines the login and registration process for students and admins

FlowChart of Student Login

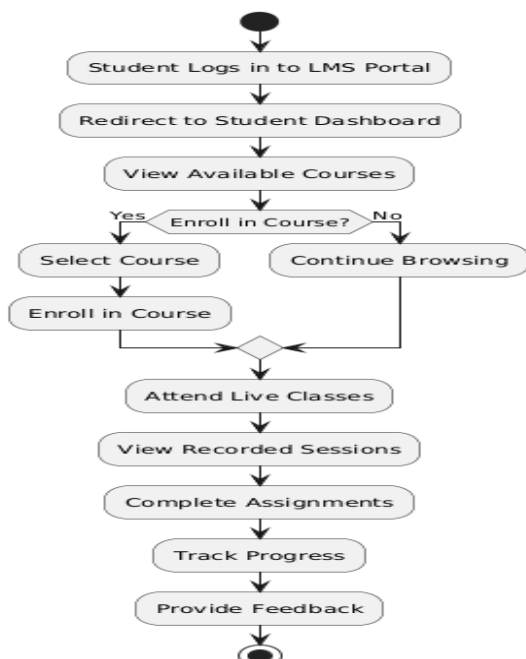


FlowChart of Admin Login

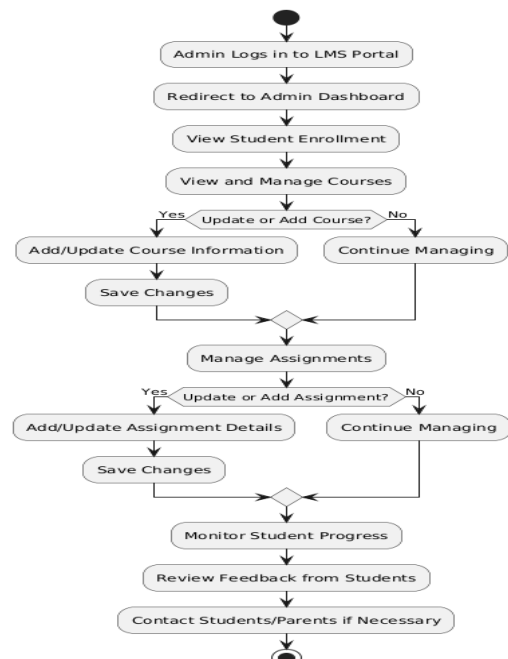


3. Course Enrollment and Dashboard Flow: A flowchart explain how students enroll in courses, track progress, and participate in assignments.

Student DashBoard

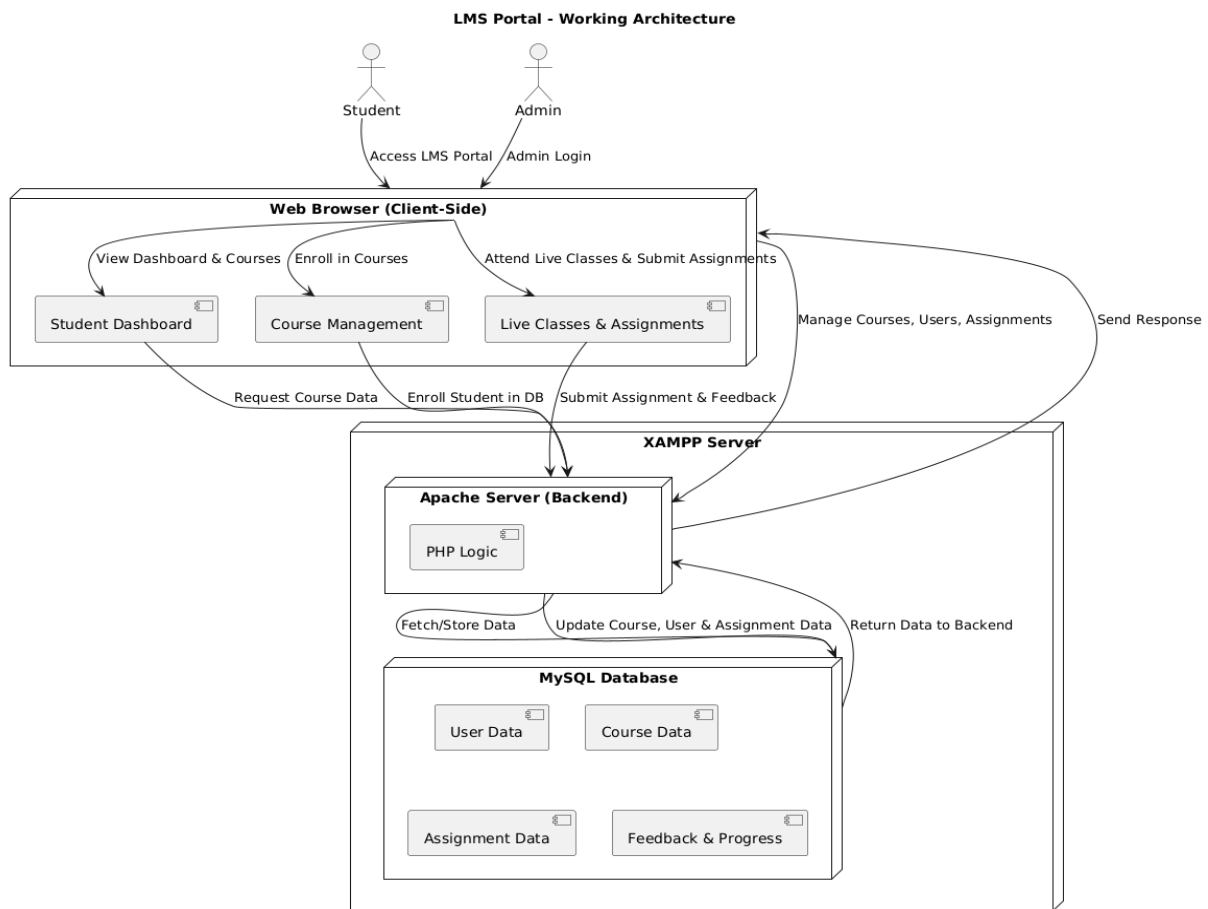


Admin Dashboard

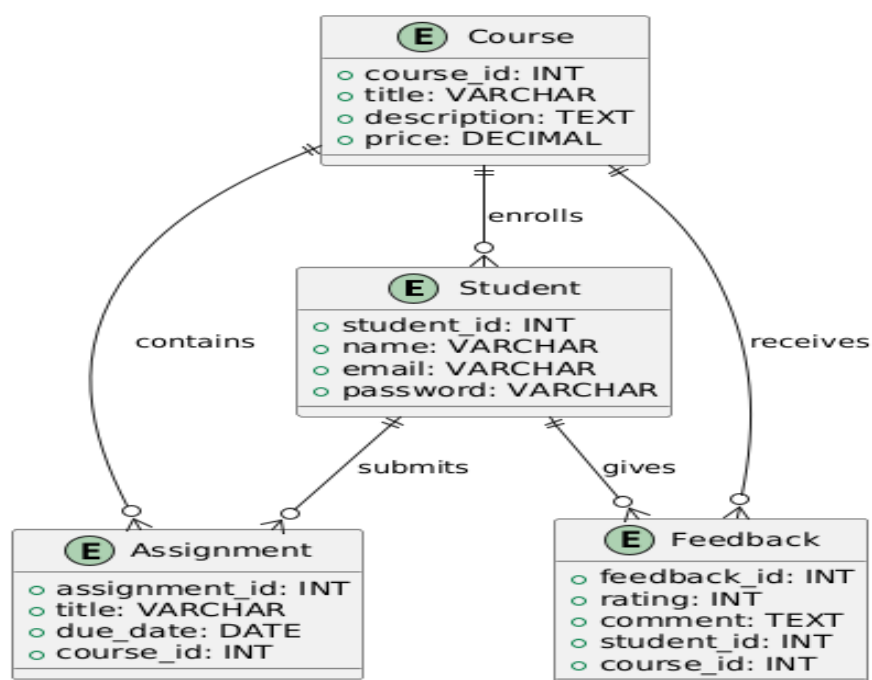


Name : Aman Latya
Enrollment : 0801IT221015

4. **System Architecture Diagram:** This diagram shows the different components of the LMS portal, including the user interface, database server, and the communication flow between them.

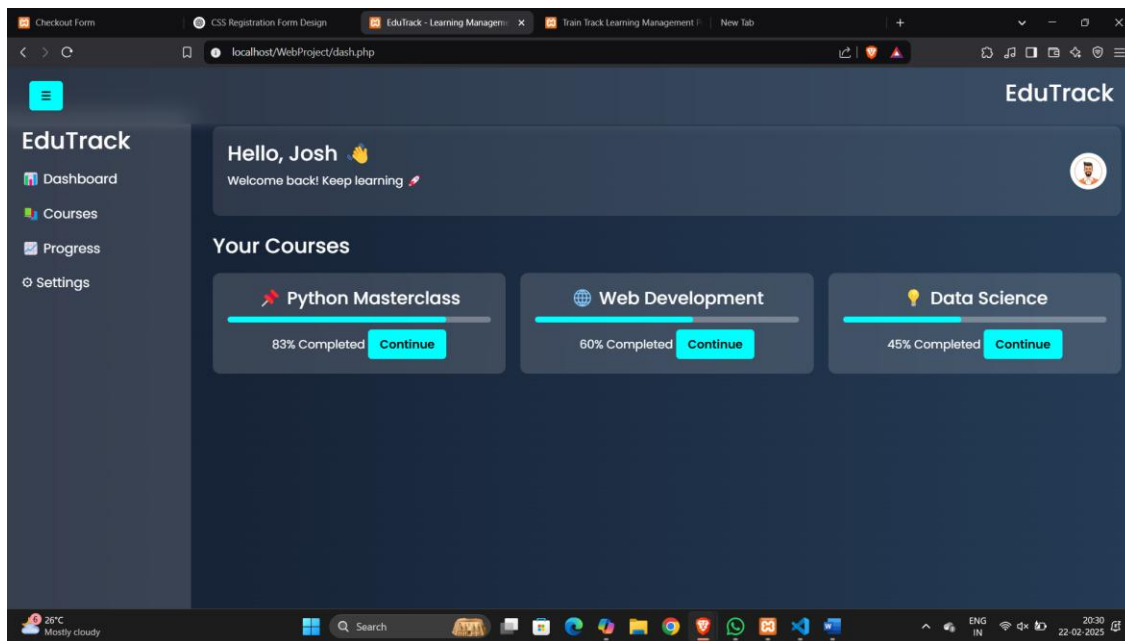


5. **Database Schema:** A simple ER (Entity-Relationship) diagram that depicts the relationships between students, courses, assignments, and feedback in the database.

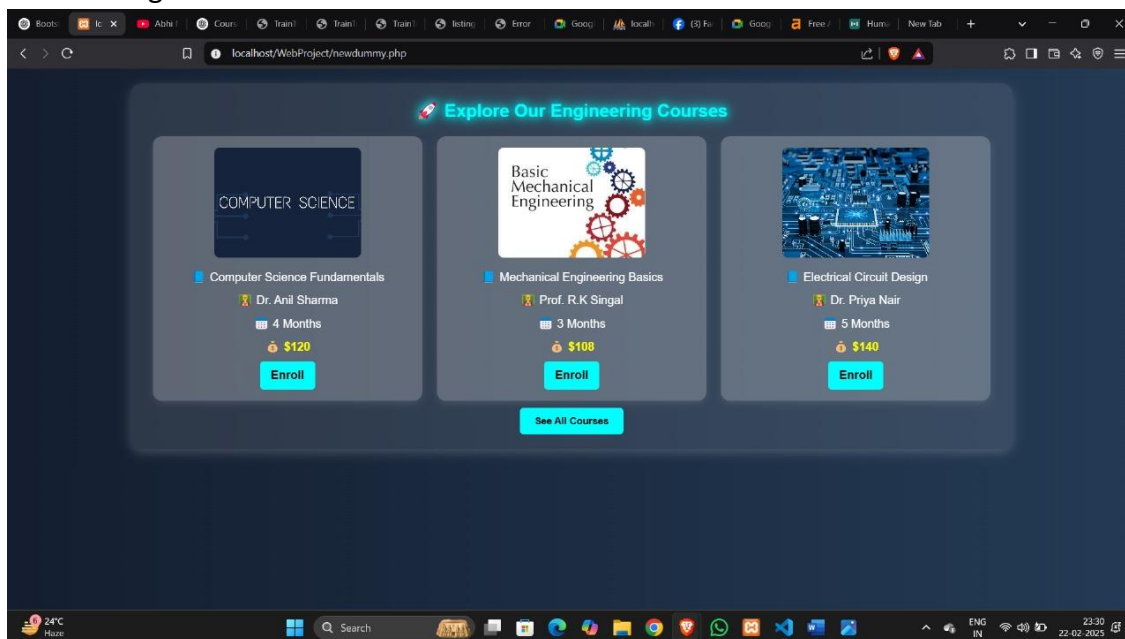


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Student DashBoard Page :



Courses Page:



Student Registraton Page :

The screenshot shows the Student Registration Page. The form is titled 'Registration Page' and includes the following fields: First Name, Last Name, DOB (with a date picker), Gender (with a dropdown menu), Email ID, Password, Confirm Password, and Phone Number. There are 'Submit' and 'Reset' buttons at the bottom. A link 'Already have an account?' is also present.