



Department of Computer Science
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LEARNING MANAGEMENT SYSTEM

Project Documentation

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Table of Contents

Project Description.....	1
Project Design.....	2
Team Member Task Distribution.....	3

PROJECT DESCRIPTION

The Learning Management System (LMS) project aims to revolutionize the online learning experience by providing a comprehensive platform for users to access, engage with, and complete courses. Designed with simplicity and effectiveness in mind, our LMS offers a user-friendly interface accessible through a web browser. We diligently developed an eLearning website to complement our LMS, serving as an intuitive gateway for users to explore our diverse range of courses and learning materials.

Technology Stack:

Website Frontend Programming Languages: HTML, CSS, JavaScript/jQuery

Website Backend Programming Languages: PHP

Database: MySQL

Key Features:

Home Page: Welcome to Learnlinx, where connecting, learning, and succeeding is made easy. Our home page provides a gateway to explore our platform's features, courses, and support options.

User Authentication (Sign-in and Sign-up Page): Securely access Learnlinx through our user authentication system. Sign up to create your account and login to unlock a world of learning opportunities. Your data is safely stored in a database, ensuring confidentiality and reliability.

Course Catalog: Browse our diverse course catalog for a comprehensive learning experience. Each course is curated with instructional videos, quizzes, and assignments, designed to enhance your skills and knowledge in various subjects. And it also includes a new feature notepad since it lets the users download typed notes from any course tab.

Support: Need assistance? Our support tab is here to help. Navigate to the support section to find solutions to your queries or to reach out to our team via email for further assistance.

Future Work:

Certification: Upon successful completion of a course, users are awarded an e-certificate in recognition of their achievement. These certificates serve as tangible evidence of proficiency in the respective programming language, enhancing users' credentials and career prospects.

Video Playback Control: To maintain the integrity of the learning process, users are restricted from pausing or fast-forwarding through course videos. This ensures that learners engage with the content thoroughly, promoting effective comprehension and skill development.

PROJECT DESIGN

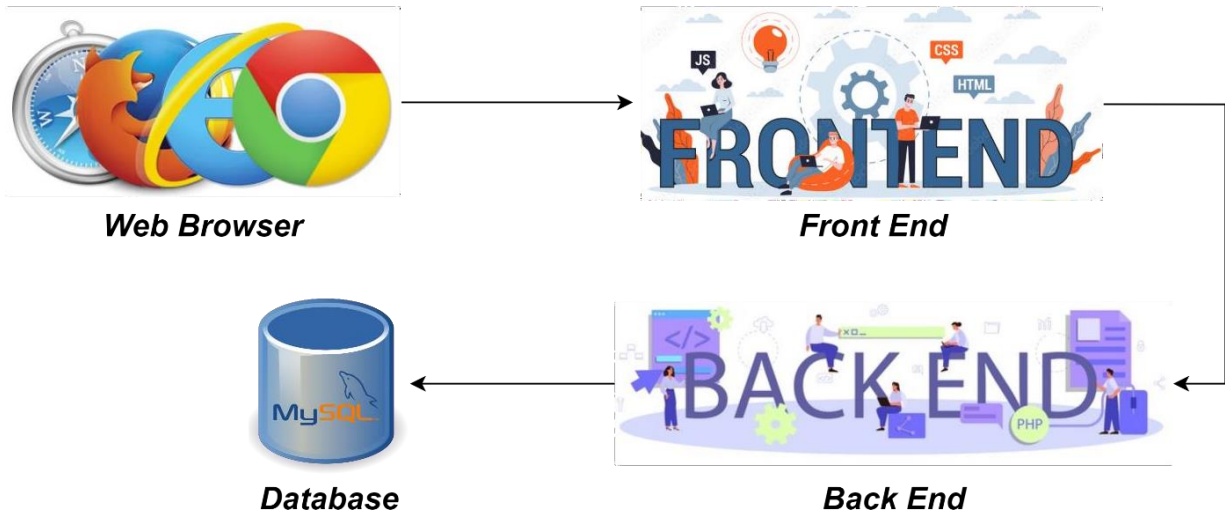


Figure 1: Project Design Flow

Explanation:

- Web Browser: Users access the Learning Management System through a web browser.
- Frontend: This layer comprises HTML, CSS, and JavaScript/jQuery, responsible for the user interface and interactivity.
- Backend: PHP handles the server-side logic, user authentication, and communication between the frontend and database.
- Database: MySQL stores user registration data securely.

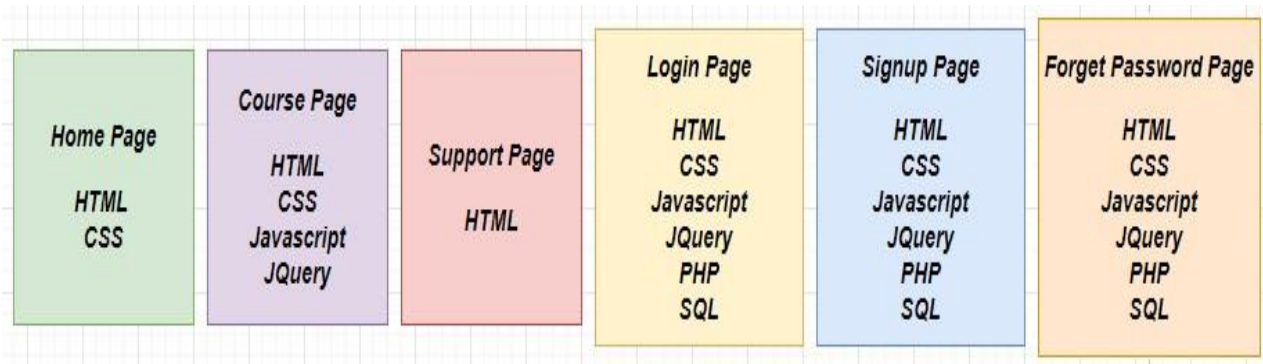


Figure 2: Technology Stack of each web page in Learn Linx Website

TASK DISTRIBUTION

Our Learning Management System (LMS) website project was undertaken by a dedicated team of five individuals: Marlene, Himashaili, Vardhan, Shreeji, and Kevin. Under Marlene's leadership, we efficiently managed our tasks and ensured smooth progress throughout the project. Marlene's role included task delegation, progress monitoring, and facilitating discussions via Zoom calls outside of class hours.

The initial concept for the project was proposed by Himashaili, while Shreeji suggested the title for our website, "Learnlinx." With coordinated teamwork, we divided the project responsibilities among ourselves over a span of three weeks.

Marlene: Led the project and focused on developing the Home Page. She utilized HTML and CSS for styling, set up the MySQL database named "Learnlinx" using XAMPP, created the user table, implemented the signup page, and integrated PHP scripts to connect web pages with the database.

Vardhan: Contributed to the project by working on the Support Page using HTML. He collaborated with Marlene on HTML scripting and assisted in CSS styling to enhance the webpage's appearance.

Shreeji: Took charge of the Courses Page, utilizing HTML, CSS, JavaScript, and jQuery. He curated course content, including instructional videos, and notepad to facilitate learning for users.

Kevin: Developed the Courses Tab, focusing on implementing quizzes related to the respective courses using HTML, CSS, JavaScript, and jQuery. These quizzes allowed users to assess their understanding after completing the instructional videos.

Himashaili: Worked on the Login Page, focusing on styling and incorporating user-friendly features such as a "forgot password" option. Additionally, Himashaili was responsible for preparing the final project documentation.

With each team member contributing their expertise and efforts, we successfully completed our project within the allotted period.