Task Document: Development of LMS Web Application

Introduction The purpose of this task document is to outline the development process for a Learning Management System (LMS) web application. The LMS will serve as a platform for educational institutions or organizations to manage and deliver online courses, track student progress, and facilitate communication between instructors and learners. This document will provide an overview of the project scope, objectives, deliverables, and key tasks involved in the development process.

Project Scope The LMS web application will include the following core features:

- User registration and authentication
- Course management, including creation, editing, and deletion
- User enrolment in courses
- Course material and content management (text, videos, documents, etc.)
- Assessment and grading system
- Discussion forums or chat functionality
- Progress tracking and reporting

5.1 Requirements Gathering

- Document functional and technical requirements for the web application
- Identify any third-party integrations or APIs required

5.2 System Design and Architecture

- Develop a system architecture that ensures scalability, reliability, and security
- Design the database schema for storing user data, course information, and content
- Create wireframes and mockups to visualize the user interface and navigation flow

5.3 Front-End Development

- Implement the user interface using HTML, CSS.
- Develop responsive design to support different devices and screen sizes
- Integrate client-side validation and error handling mechanisms

5.4 Back-End Development

- Implement server-side logic using a suitable programming language (PHP)
- Set up a database management system (MySQL) and develop data models
- Implement user authentication and authorization mechanisms
- Develop APIs to handle user registration, course management, content delivery, etc.