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**Online Learning Management System - Software Requirements Specification**

**1. Introduction**

**1.1 Purpose**

The purpose of this document is to provide a detailed overview of the requirements for the development of an Online Learning Management System (LMS).

**1.2 Scope**

The Online LMS will serve as a platform for managing and delivering online courses, facilitating user registration, providing content management, and enabling assessment and tracking of student progress.

**1.3 Document Conventions**

* **Bold Text**: Section headings
* *Italic Text*: Placeholder or variable information

**1.4 Intended Audience**

This document is intended for developers, designers, testers, and stakeholders involved in the development and deployment of the Online LMS.

**2. System Overview**

**2.1 System Description**

The Online LMS will be a web-based platform that allows users to create, manage, and participate in online courses. It will support user registration, course creation, content delivery, assessments, and progress tracking.

**2.2 System Architecture**

The system will follow a client-server architecture. The server will host the application and database, while users will access the system through web browsers.

**3. Functional Requirements**

**3.1 User Management**

3.1.1 User Registration

* The system shall allow users to register with a unique username and password.
* Users must provide essential information during registration.

3.1.2 User Authentication

* Users shall be authenticated using their credentials.
* Passwords must be securely stored using encryption techniques.

**3.2 Course Management**

3.2.1 Course Creation

* Instructors shall be able to create new courses.
* Courses must have a title, description, and associated content.

3.2.2 Content Management

* Instructors can upload and organize course content (documents, videos, quizzes, etc.).
* Content should support various multimedia formats.

**3.3 Learning Activities**

3.3.1 Quizzes and Assessments

* The system shall support the creation and delivery of quizzes and assessments.
* Automatic grading and feedback features must be included.

3.3.2 Discussion Forums

* Each course shall have a discussion forum for student interaction.
* Instructors can moderate and participate in discussions.

**3.4 Progress Tracking**

3.4.1 Student Progress

* The system shall track and display individual student progress.
* Instructors can view analytics and reports on student performance.

**4. Non-functional Requirements**

**4.1 Performance**

* The system shall support a minimum of 1000 concurrent users.
* Response time for actions should be within 3 seconds.

**4.2 Security**

* Data transmission shall be encrypted using SSL/TLS.
* Access to user data and system features shall be role-based.

**4.3 Usability**

* The user interface shall be intuitive and user-friendly.
* The system shall be compatible with major web browsers.

**4.4 Reliability**

* The system shall have a 99.9% uptime.
* Regular data backups must be performed.

**5. Constraints**

* The system must be compatible with common web browsers.
* Users must have an internet connection to access the LMS.

**6. Future Enhancements**

* Integration with third-party tools (e.g., video conferencing).
* Mobile application support.

**7. Conclusion**

This Software Requirements Specification outlines the key features and constraints of the Online Learning Management System. Developers and stakeholders are encouraged to use this document as a guide during the development process.

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