EDUME

Software Requirement Specification

1) Introduction

Purpose: The purpose of this SRS is to provide a detailed description of the requirements for the e-learning platform, including the functional and non-functional requirements, as well as the constraints and assumptions of the system.

Scope: The e-learning platform will provide a comprehensive, user-friendly, and interactive online learning experience for students and teachers. The system will include a course catalogue, user registration and login, course content and materials, assessments and quizzes, progress tracking and reporting, and communication and collaboration tools. The system will also have a mobile-friendly interface.

Overview: The e-learning platform will be a web-based system that allows students and teachers to access and manage educational content, track progress, and communicate with one another. The system will be developed using a Learning Management System and will include a responsive UI, an API, and integration with a CMS.

Stakeholders: The stakeholders for our product are as follows

- End Users: Individuals who will use the app for educational purposes.
- Educators: Individuals who will create and manage courses.
- Developers: The team responsible for designing, developing, and testing the app.

Functional Requirements

2.1 User registration and login
- Users should be able to register and create an account on the platform
- Users should be able to log in to the platform using their email and password
- Users should be able to reset their password if they forget it

2.2 Course and lesson management
- Administrators should be able to create, edit, and delete courses and lessons
- Users should be able to view a list of available courses and lessons
- Users should be able to enrol in and complete courses and lessons

2.3 Student progress tracking
- Users should be able to view their progress in a course or lesson
- Administrators should be able to view the progress of all users
- Users should be able to receive a certificate of completion upon finishing a course or lesson

2.4 Online quizzes and assessments
- Administrators should be able to create and manage online quizzes and assessments
- Users should be able to take quizzes and assessments and receive feedback on their performance

2.5 Video and multimedia content delivery
- Users should be able to view video and multimedia content within the platform
- The platform should support different types of media and content formats

2.6 Discussion forums and messaging
- Users should be able to participate in discussion forums and messaging
- Administrators should be able to moderate discussions and message

2.7 Accessibility and compliance with standards
- The platform should be compliant with accessibility standards and guidelines

2.8 Reporting and analytics
- Administrators should be able to view analytics and reports on platform usage and user engagement

2.9 Integration with other systems
- The platform should be able to integrate with other systems such as LMS, and payment gateway

Non-Functional Requirements

3.1 Performance
- The platform should be able to handle a high number of concurrent users
- The platform should have a fast load time for pages and content

3.2 Scalability
- The platform should be able to handle an increase in the number of users and courses

3.3 Security
- The platform should protect user data and information from unauthorised access
- The platform should be compliant with data protection and security regulations

3.4 Usability
- The platform should be easy to navigate and use for both administrators and users
- The platform should be responsive and accessible on different devices and browsers.

4 Constraints:

- The web app will only be available for all devices.
- The web app will only be accessible to registered users.

5 Assumptions and dependencies:

- The development team will assume that the system will be hosted on a web server with a reliable internet connection and that the system will be integrated with a CMS.

E-R DIAGRAM