

Learn Edu App

1. Introduction

1.1 Purpose

The purpose of this document is to outline the requirements for the development of the Learn Edu App. This app is designed to provide a comprehensive platform for online learning, catering to students, educators, and administrators.

1.2 Scope

The Learn Edu App will include features for course creation, enrollment, content delivery, assessments, and user management. It aims to facilitate seamless communication and collaboration between students and educators.

1.3 Definitions, Acronyms, and Abbreviations

- Edu App: Learn Edu App
- User: Any individual interacting with the application
- Admin: Administrator or system manager
- UI: User Interface
- API: Application Programming Interface

2. Overall Description

2.1 Product Perspective

The Learn Edu App will be a standalone web-based application with mobile compatibility. It will interact with a backend server for data storage and retrieval.

2.2 Product Features

User Authentication

- Users (students, educators, and admins) must register and log in securely.

User Roles and Permissions

- Define roles (Student, Educator, Admin) with specific permissions.

Course Management

- Educators can create, edit, and delete courses.
- Students can enroll in courses.

Content Delivery

- Support for various content types: text, images, videos, and documents.
- Progress tracking for students.

Assessment and Quizzes

- Educators can create quizzes and assessments.
- Automatic grading system.

Communication and Collaboration

- Discussion forums for each course.
- Direct messaging between users.

User Profile Management

- Users can update profiles with personal information and profile pictures.

Notification System

- Email and in-app notifications for important updates.

Reporting and Analytics

- Generate reports on student performance and course statistics.

2.3 User Classes and Characteristics

- Students: End-users taking courses and participating in discussions.
- Educators: Users responsible for creating and managing courses.
- Admins: System administrators managing users, courses, and overall system health.

3. System Features

3.1 User Authentication

- Users must register with a valid email.
- Secure login with password encryption.
- Password recovery mechanism.

3.2 User Roles and Permissions

- Define roles (Student, Educator, Admin) with specific permissions.
- Admins can manage user roles.

3.3 Course Management

- Educators can create, edit, and delete courses.
- Students can enroll in courses.

3.4 Content Delivery

- Support for various content types: text, images, videos, and documents.
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3.5 Assessment and Quizzes

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3.6 Communication and Collaboration

- Discussion forums for each course.
- Direct messaging between users.

3.7 User Profile Management

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3.8 Notification System

- Email and in-app notifications for important updates.

3.9 Reporting and Analytics

- Generate reports on student performance and course statistics.

4. Non-Functional Requirements

4.1 Performance

- Response time for user interactions should be within 2 seconds.
- The system should support concurrent users without performance degradation.

4.2 Security

- Use secure protocols for data transmission.
- Implement role-based access control.

4.3 Scalability

- The system should handle a growing number of courses and users.

4.4 Usability

- The UI should be intuitive and accessible.
- Provide user guides and tooltips.

5. Constraints

- The application must support modern web browsers.
- Mobile responsiveness is required.

6. Assumptions and Dependencies

- Users have access to a reliable internet connection.
- The hosting environment provides necessary resources.

7. Conclusion

This Software Requirements Specification document provides a detailed overview of the Learn Edu App. It serves as a reference for developers, testers, and stakeholders throughout the development process.

Please note that this is a generic example, and you may need to customize it based on the specific requirements and features of your Learn Edu App. Additionally, you might want to include more detailed information, such as use case scenarios, data models, and system architecture, depending on the complexity of your application.