

Software Requirements Specification (SRS) for StudyNotion

1. Introduction

StudyNotion is a comprehensive online educational platform developed to facilitate seamless interaction between instructors and students. This document outlines the functional and non-functional requirements of StudyNotion to ensure a clear understanding of the system's capabilities and constraints.

2. Functional Requirements

2.1. User Management

2.1.1. **Registration:** Users(both instructors and students) should be able to register by providing necessary details.

2.1.2. **Login:** Registered users are able to log in using their validated login credentials.

2.1.3. **User Profiles:** Each user has a profile page displaying relevant information, such as courses enrolled (for students) or courses created (for instructors).

2.1.4. **Password Reset:** Users have the ability to reset their passwords via email verification.

2.1.5. **Update Profile Page:** Users have the ability to update their information.

2.1.6. **Account Deletion:** Users have the ability to Delete their Account.

2.2. Instructor Functions

2.2.1. **Course Creation:** Instructors have the ability to create courses, including adding course content such as videos and text.

2.2.2. **Course Management:** Instructors have the ability to edit, delete, and update course content as needed.

2.2.3. **Course Publishing:** Instructors have the ability to publish courses to make them available for students to purchase.

2.2.4. **Revenue Tracking:** Instructors are also able to track their earnings and view sales reports for their courses.

2.3. Student Functions

2.3.1. **Course Enrollment:** Students are able to browse through available courses and enroll in courses of interest by means of online payment.

2.3.2. **Course Access:** Enrolled students have access to course content, including video lectures and reading materials.

2.3.3. **Course Progress Tracking:** Students are able to track their progress within the enrolled course and marking completed sections.

2.4. Content Management

2.4.1. **Video Streaming:** StudyNotion supports seamless video streaming for course content.

2.4.2. **Document Upload:** StudyNotion facilitates the upload of images for various purposes within the platform.

2.5. Authentication and Authorization

2.5.1. **Authentication:** Secure authentication mechanisms are implemented to ensure only authorized users can access the system.

2.5.2. **Authorization:** Users have appropriate access levels based on their roles (instructor or student).

3. Non Functional Requirements

3.1. Performance

3.1.1. **Response Time:** The system has minimal response times to ensure a smooth user experience.

3.1.2. **Scalability:** StudyNotion is scalable to accommodate a growing user base and increasing course content.

3.2. Security

3.2.1. **Data Encryption:** User passwords are encrypted to prevent unauthorized access.

3.2.2. **Secure Authentication:** Robust authentication mechanisms are implemented to prevent unauthorized access to user accounts.

3.3. Usability

3.3.1. **Intuitive Interface:** The user interface is intuitive and user-friendly, catering to users of varying technical proficiency.

3.3.2. **Accessibility:** StudyNotion is accessible to users with disabilities, complying with accessibility standards

3.4. Compatibility

3.4.1. **Cross Platform Compatibility:** StudyNotion should be compatible with various devices and operating systems.

3.4.2. **Browser Compatibility:** The platform should be compatible with popular web browsers.

3.5. Maintainability

3.5.1. **Code Maintainability:** Clean and well-documented code should be maintained to facilitate future updates and modifications.

3.5.2. **System Documentation:** Comprehensive system documentation should be provided to aid in system maintenance and troubleshooting.

The Software Requirements Specification for StudyNotion outlines the functional and non-functional requirements essential for the development of a robust and user-friendly online educational platform. By adhering to these requirements, StudyNotion aims to provide an immersive learning experience for students and a comprehensive platform for instructors to showcase their expertise.

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