# Software Requirements Specification (SRS) for On-Demand Tutoring System

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## Introduction

The On-Demand Tutoring System aims to connect students with qualified tutors efficiently. The system provides a platform where students can find tutors for various subjects, receive immediate assistance, and enhance their learning experience. The primary goal is to create a user-friendly web application that benefits both students and tutors.

## **1.1 Purpose**

The purpose of this system is to facilitate seamless interactions between students and tutors, ensuring high-quality educational support. By providing a reliable platform, we aim to enhance the learning process for students while enabling tutors to showcase their expertise.

## **1.2 Scope**

The system will include the following features:

• User registration and authentication

• Search functionality to find tutors based on subject, name, or other criteria

• Real-time chat between students and tutors

• Rating and feedback system for tutors

• Rental services creation by tutors

• Uploading academic videos for tutor advertisements

• Content moderation and complaint handling

## **1.3 Audience**

The intended audience includes students, tutors, moderators, and administrators.

## System and Functional Requirements

* 1. **High-Level Business Requirements**

**1. User Registration and Authentication:**

• Users (students, tutors, moderators, and administrators) must register and log in to access the system.

• Authentication mechanisms should ensure security and privacy.

**2. Tutor Search and Interaction:**

• Students can search for tutors based on subject, name, or other relevant criteria.

• Real-time chat functionality allows students to communicate with tutors.

**3. Rating and Feedback System:**

• After renting a tutor, students can leave ratings and feedback.

• Tutors’ profiles display aggregated ratings.

**4. Tutor Services Creation:**

• Tutors can create rental services, specifying subjects and hourly rates.

• Uploading academic videos enhances their advertisements.

## **2.2 Use Cases**

**1. Search for Tutors:**

• Actors: Students

• Description: Students search for tutors based on specific criteria (subject, name).

• Expected Behavior: Relevant tutor profiles are displayed.

1. **Chat with Tutors:**

• Actors: Students, Tutors

• Description: Students and tutors can communicate through real-time chat.

• Expected Behavior: Instant messaging between users.

1. **Leave Ratings and Feedback:**

• Actors: Students

• Description: Students rate tutors and provide feedback after renting their services.

• Expected Behavior: Ratings and comments are visible on tutor profiles.

1. **Create Rental Services:**

• Actors: Tutors

• Description: Tutors create rental services, specifying subjects and rates.

• Expected Behavior: Services appear in search results.

**2.3 Functional Requirements**

1. User registration and login

2. Tutor search functionality

3. Real-time chat interface

4. Rating and feedback submission

5. Tutor service creation

6. Video upload for tutor advertisements

**3. External Interface Requirements**

**3.1 User Interfaces**

• Login and registration screens

• Tutor search results page

• Chat interface

• Tutor profile pages

**3.2 APIs and Data Exchange**

• APIs for real-time chat

• Data exchange formats (JSON, XML) for communication

**4. Non-Functional Requirements**

**1. Performance:**

• Real-time chat responsiveness

• Quick search results retrieval

**2. Security:**

• Secure authentication and data encryption

• Protection of personal identification information

**3. Usability**:

• Intuitive user interfaces

• Clear instructions for tutors and students

**4. Scalability:**

• Ability to handle increasing user traffic

**5. Constraints:**

• Budget constraints for development

• Legal compliance regarding user data privacy

**6. System Maintenance:**

• Regular updates and bug fixes

• Monitoring system health and performance

**7. Conclusion**

The On-Demand Tutoring System aims to create a robust platform that benefits both students and tutors. By adhering to these requirements, we can build a reliable and user-friendly application.