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

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1. **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. 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. 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. Audience

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

1. **System and Functional Requirements**
   1. High-Level Business Requirements
2. User Registration and Authentication:

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

o Authentication mechanisms should ensure security and privacy.

2. Tutor Search and Interaction:

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

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

3. Rating and Feedback System:

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

o Tutors’ profiles display aggregated ratings.

4. Tutor Services Creation:

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

o Uploading academic videos enhances their advertisements.

2.2 Use Cases

1. Search for Tutors:

o Actors: Students

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

o Expected Behavior: Relevant tutor profiles are displayed.

2. Chat with Tutors:

o Actors: Students, Tutors

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

o Expected Behavior: Instant messaging between users.

3. Leave Ratings and Feedback:

o Actors: Students

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

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

4. Create Rental Services:

o Actors: Tutors

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

o 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:

o Real-time chat responsiveness

o Quick search results retrieval

2. Security:

o Secure authentication and data encryption

o Protection of personal identification information

3. Usability:

o Intuitive user interfaces

o Clear instructions for tutors and students

4. Scalability:

o 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. 😊