

# Software Requirements Specification (SRS)

## Project: EduMentor – Mentor–Student Connection and Issue Escalation System

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### 1. Introduction

#### 1.1 Purpose

To develop a web-based platform connecting students and mentors, enabling students to submit queries/issues for resolution. When a mentor cannot resolve an issue, it escalates to the Head of Department (HOD) for further action.

#### 1.2 Scope

The EduMentor system includes:

- Student registration and query submission
- Mentor assignment and issue resolution tracking
- Real-time chat
- HOD dashboard for escalations
- Admin controls

#### 1.3 Overview

The system allows students to interact with mentors and raise issues. Mentors manage students and resolve queries. Unresolved issues escalate to the HOD, who can intervene or re-assign mentors.

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## 2. General Description

### 2.1 Functions

- User registration and authentication for students, mentors, and HODs
- Submission and management of issues
- Mentor assignment (automatic and manual)
- Real-time chat between students, mentors, and HODs
- Issue escalation to HOD if unresolved by mentors

- Admin management for all user roles

## **2.2 User Community**

- Students: Submit issues, chat with mentors and HOD, track progress
  - Mentors: View mentees, resolve queries, track open/closed cases
  - HOD: View all mentors, intervene in unresolved cases, resolve/escalate issues
  - Admin: Oversee users and issues, platform analytics
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# **3. Functional Requirements**

## **3.1 Possible Outcomes**

- Issue resolved by mentor
- Issue escalated to HOD (if unsolved within time/criteria)
- Issue resolved/closed by HOD
- Feedback collected from student

## **3.2 Ranked Order**

Issues escalate based on:

- Time outstanding
- Priority set by student/mentor
- Mentor activity/inactivity

## **3.3 Input-Output Relationship**

- Input: User registrations, issue submissions, chat messages
  - Processing: Assignment to mentors, escalation logic, activity logging
  - Output: Status updates, notifications, dashboard analytics
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# **4. User Interface Requirements**

## **4.1 Software Interfaces**

- Student dashboard
- Mentor dashboard
- HOD dashboard (shows all mentors, flagged/unresolved issues, options for intervention)
- Admin dashboard

## **4.2 Interface Examples**

- Query submission form
  - Mentor's list of assigned issues (with status)
  - HOD window displaying all mentors and any escalated issues
  - Status notifications to users
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## 5. Performance Requirements

### 5.1 Response Time

Core actions (login, message, status update) under 2 seconds.

### 5.2 Throughput

Support at least 500 concurrent active users.

### 5.3 Scalability

System can scale to universities/large institutions with 10,000+ users.

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## 6. Non-Functional Attributes

### 6.1 Usability

Simple, modern, mobile-friendly design for all roles.

### 6.2 Reliability

99%+ uptime with robust database backup.

### 6.3 Security

- Role-based access (student, mentor, HOD, admin)
  - Encrypted passwords and sensitive data
  - Secure session and communication protocols
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## 7. Schedule and Budget

### 7.1 Timeline

- Total duration: 6 months
  - Month 1: Requirements finalized, designs created

- Month 2: Student/mentor core flows implemented
- Month 3: Chat and dashboard integration
- Month 4: HOD dashboard and escalation features
- Month 5: Testing and optimization
- Month 6: Deployment and monitoring

## **7.2 Cost Estimate**

Based on:

- Developer/QA costs
  - Cloud hosting and maintenance
  - Third-party chat/notification tools (if necessary)
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# **8. Appendices**

## **8.1 Supplementary Information**

- UML Use Case: Issue escalation
- ERD for user, issue, chat, escalation entities
- Sequence diagram: Issue escalation workflow

## **8.2 Glossary**

- Issue: Student-submitted query/problem
- Mentor: Faculty or experienced student assigned to guide/resolve issues
- HOD: Head of Department; authority to resolve escalated cases
- Admin: System superuser with full access