

Software Requirements Specification (SRS)

Project Title College Admission Management System

Prepared By : Dinesh S

Date: October 23, 2025

1. Introduction

1.1 Purpose

The purpose of this document is to define the requirements for the College Admission Management System (CAMS). This system will automate the student admission process, including registration, document verification, merit list generation, and final admission confirmation.

1.2 Scope

CAMS will serve as an online platform for students, administrators, and faculty involved in the admission process. The system will manage course information, track applicant data, evaluate eligibility, and streamline the decision-making process.

Key functionalities include:

- Online application submission
- Document upload and verification
- Merit list generation
- Fee payment and admission confirmation
- Reporting and analytics

1.3 Definitions, Acronyms, and Abbreviations

- **CAMS**: College Admission Management System
- **Admin**: System administrator
- **Applicant**: Student applying for admission

1.4 References

- IEEE 830–1998 Software Requirements Specification standard
- Institutional admission policies

2. Overall Description

2.1 Product Perspective

CAMS operates as a standalone web-based application with access via browser or mobile device. It will integrate with the institution's existing student information system (SIS).

2.2 Product Functions

- User registration and login
- Application form submission
- Academic record management
- Admission fee payment gateway
- Communication via email/SMS notifications
- Admin dashboard for managing applicants and reports

2.3 User Characteristics

- **Applicants:** Must have basic computer and internet knowledge.
- **Administrators:** Trained staff managing admissions and verifications.
- **Faculty:** May view assigned applicant data or course lists.

2.4 Constraints

- System must comply with institutional data security and privacy policies.
- Must support peak loads during admission deadlines.

2.5 Assumptions and Dependencies

- Stable internet connectivity required.
- Payment processing depends on integrated payment gateway APIs.

3. Specific Requirements

3.1 Functional Requirements

1. **User Registration and Login**
 - System shall allow applicants to register with an email and password.

- System shall authenticate users securely.
- 2. **Application Submission**
 - System shall provide forms for entering personal, academic, and course preference details.
 - System shall allow uploading supporting documents.
- 3. **Verification and Approval**
 - Admin shall verify applicant data and documents.
 - System shall notify users about status updates.
- 4. **Merit List Generation**
 - System shall automatically generate merit lists based on defined criteria.
- 5. **Admission Confirmation**
 - Applicants shall pay fees online.
 - System shall issue a confirmation receipt upon successful admission.
- 6. **Reporting and Analytics**
 - Admin shall generate reports based on course, category, and gender.

3.2 Non-Functional Requirements

- **Performance:** Handle 500+ simultaneous users.
- **Usability:** Simple UI with intuitive navigation.
- **Reliability:** 99% uptime during admission season.
- **Security:** Data encryption and role-based access control.
- **Scalability:** Easily adaptable for multiple academic programs.

3.3 System Interfaces

- Web browser interface
- Payment gateway API
- Email/SMS notification service

4. System Design Constraints

The system will be implemented using:

- **Frontend:** HTML, CSS, JavaScript (React or Angular)
 - **Backend:** Node.js or Django
 - **Database:** MySQL/PostgreSQL
 - **Hosting:** Cloud environment (AWS, Azure, or local server)
-

5. Appendix

Future Enhancements:

- Integration with scholarship management systems
- Mobile app support
- AI-based document verification

6. Use case diagram:

