**Engineering College Admission Management System**

**System Requirement Specification**

**Version 1.0**

**Sep 2024**

### **Revision History**

| **Date** | **Ver. Rev.** | **Authors** | **Description** |
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| Sep 2024 | 1.0 |  | Initial draft |

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### **Document Approval**

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### **1. SYSTEM OVERVIEW**

#### **1.1 Current System**

Many engineering colleges use outdated, manual processes to manage student admissions. The process includes receiving paper applications, manually verifying eligibility criteria, and notifying students via physical mail or phone calls. This makes the admission process slow, prone to errors, and inefficient.

#### **1.1.1 Overview of Proposed System**

The proposed **Engineering College Admission Management System** will digitalize the admission process, making it efficient and accessible for both administrators and students. It will allow online form submissions, automatic eligibility checking, and a seamless communication flow between students and the admission office.

#### **1.2 Objectives of the System**

The system will support the entire admission lifecycle, from application submission to seat allotment. The system will ensure that:

* Students can easily submit applications online.
* Admins can efficiently manage and track applications.
* Seat allotments are done based on predefined criteria, such as merit and reservation.

### **2. BUSINESS ANALYSIS**

#### **2.1 Business of College**

The college offers various engineering courses to students and conducts an annual admission process to fill available seats. A streamlined, digital system will enhance the admission experience for prospective students and reduce administrative overhead.

#### **2.2 Business of Developer**

The developer is responsible for building a secure, scalable web-based platform that will manage thousands of applications, ensure data security, and provide reliable performance.

**3. FUNCTIONAL REQUIREMENTS**

| **Req. Id** | **Description** | **Classification (Hardware / Software)** |
| --- | --- | --- |
| FR1 | The system shall provide a login facility for students to register for the admission process. | Software |
| FR1.1 | The system shall allow students to create an account by entering their personal information and credentials. | Software |
| FR2 | The system shall allow students to submit an application form with personal, academic, and contact details. | Software |
| FR2.1 | The system shall allow students to upload required documents, such as marksheets, identity proof, etc. | Software |
| FR3 | The system shall automatically verify student eligibility based on entrance exam scores and academic history. | Software |
| FR4 | The system shall allow admins to manage student applications through a dashboard. | Software |
| FR4.1 | Admins shall be able to view the status of all submitted applications. | Software |
| FR5 | The system shall support seat allotment based on merit and reservation criteria. | Software |
| FR5.1 | The system shall generate a merit list based on predefined rules. | Software |
| FR6 | The system shall allow communication with applicants through email notifications for important updates. | Software |

**4. NON-FUNCTIONAL REQUIREMENTS**

| **Req. Id** | **Description** | **Classification (Hardware / Software)** |
| --- | --- | --- |
| NFR1 | The system shall respond to user actions (form submission, login, etc.) within 3 seconds. | Performance |
| NFR2 | The system shall use encryption to store sensitive data, such as personal information and uploaded documents. | Security |
| NFR3 | The system shall support at least 10,000 simultaneous users during peak admission times. | Performance |
| NFR4 | The system shall ensure high availability, with 99.9% uptime during the admission period. | Reliability |
| NFR5 | The system shall be compatible with modern browsers and mobile devices. | Usability |

### 5. GLOSSARY

* FR – Functional Requirements
* NFR – Non-Functional Requirements
* Admin – College Administrator
* Student – Prospective Student
* Seat Allotment – The process of assigning seats to students based on eligibility