1. **Interface Requirements**

**6.1 User Interfaces (UI)**

The user interface for the Student Management Information System will provide a user-friendly and intuitive experience.

**6.1.1 Admin Interface**

1. Should provide options for maintaining user accounts, courses, notices, timetables, and other administrative tasks.
2. User-friendly interface for easy navigation and data manipulation.
3. Access control features to restrict unauthorized access to administrative functionalities.

**6.1.2 Lecturer Interface**

1. Ability to manage and upload course materials and marks for all kind of exams.
2. Should provide options for see student details, student eligibilities, student marks, attendance and medical records of students.
3. Also provide options for see notices and update their profile. (except username and password)

**6.1.3 Student Interface**

1. Access to course materials, grades and academic notices.
2. Ability to view attendance details, medical details, course details, exam marks, and their timetables.
3. Also provide option for update their profile. (only contact details and profile picture)

**6.1.4 Technical Officer Interface**

1. Should provide options for maintaining attendance details and medical details of students.
2. Ability to view notices and timetables of their department.
3. Also provide option for update their profile. (except username and password)

**6.2 Hardware Interfaces**

1. The system should be compatible with standard hardware configurations.
2. It should support various hardware specifications such as different CPU architectures, RAM capacities, and storage options to accommodate different user needs and device capabilities.
3. Minimum hardware requirements (CPU, RAM, storage) for optimal performance. It depicts below table. (This is not essential)

|  |  |
| --- | --- |
| CPU | Intel Core i5 or equivalent |
| RAM | Minimum 4 GB |
| Storage | a minimum disk space requirement for storing application files and data (<100 GB) |

**6.3 Communication Interfaces**

None

**6.4 Software Interfaces**

**6.4.1 Java Interface**

1. The system should be developed using Java programming language following Object-Oriented Programming (OOP) concepts.
2. Compatibility with Java development frameworks and libraries for efficient development.

**6.4.2 MYSQL Database Interface**

1. Interaction with MySQL database for storing and retrieving data related to users, courses, grades, etc.
2. Implementation of secure database transactions to ensure data integrity and confidentiality.