A Requirement file

On

Student management system(SMS)

1) Functional Requirements

- Login System: The system shall have a secure login system for administrators, teachers, and students.
- **2. Student Information Management:** The system shall allow administrators and teachers to view, update, and delete student information.
- **3. Academic Records Management:** The system shall allow administrators and teachers to view and update student academic records.
- **4. Data Export:** The system shall allow administrators to export student data in various formats (e.g., CSV, Excel).

2) Non-Functional Requirements

- Security: The system shall ensure the confidentiality, integrity, and availability of student data.
- **2. Usability:** The system shall provide an intuitive and user-friendly interface for administrators, teachers, and students.
- 3. Performance: The system shall respond quickly to user inputs and queries.
- **4. Scalability:** The system shall be able to handle an increasing number of students and users without compromising performance.

3) Interface Requirements

- Graphical User Interface (GUI): The system shall have a GUI that is easy to navigate and use.
- 2. Login Interface: The system shall have a secure login interface that authenticates users.
- **3. Student Information Interface:** The system shall have an interface for administrators and teachers to view, update, and delete student information.

4) Hardware and Software Requirements

- **1. Hardware**: The system shall be compatible with standard computer hardware, including desktops, laptops, and tablets.
- 2. Software: The system shall be built using Python, Tkinter, and MySQL.

5) Testing Requirements

- **1. Unit Testing:** The system shall undergo unit testing to ensure that individual components function correctly.
- **2. Integration Testing:** The system shall undergo integration testing to ensure that components work together seamlessly.
- **3. System Testing:** The system shall undergo system testing to ensure that the entire system functions correctly.