

Student Management System – Project Requirements

Requirement Abstract

The Student Management System is a web-based application used to manage student information within an institution. The system allows users to add, view, update, and delete student records through a user-friendly interface. The application will be developed in phases, starting with frontend implementation and later integrating backend services and database storage.

Project Scope

- Manage student records digitally.
- Provide an interface to perform CRUD operations.
- Store and retrieve student data efficiently.

Student Data Fields

- Student Name
- Registration / Roll Number
- Email Address
- Course
- Branch
- Status (Active / Inactive)

Frontend Requirements (Phase 1)

- Create a form to add student details.
- Display students in a table or card layout.
- Provide Edit and Delete options for each record.
- Show validation messages for invalid inputs.

Backend Requirements (Phase 2)

- Create APIs to handle student data.
- Perform Create, Read, Update, and Delete operations.

- Connect the application to a database.

Functional Requirements

- Add new student records.
- View all existing student records.
- Update student information.
- Delete student records.

Optional Features

- Search students by name or registration number.
- Filter students by course or status.
- Confirmation popup before deleting a record.

Submission Guidelines

- The application should run without errors.
- The user interface should be simple and usable.
- Students should be able to explain application flow.