

PROJECT PROPOSAL

Project Title: Student Management System

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Project Introduction:

The **Student Management System (SMS)** is a console application built using the C programming language. It is intended to simplify and optimize the administrative tasks within educational institutions. The system offers distinct functionalities for both administrators and students, allowing efficient handling of student data, attendance tracking, academic results, and report generation. Featuring a menu-based interface, the system is designed for user-friendliness, enabling individuals to execute essential tasks with minimal technical expertise.

Purpose of the Project:

The purpose of a Student Management System (SMS) project is to streamline and automate various academic and administrative tasks in educational institutions. Here are some key purposes:

- **Efficient Data Management:** Centralizes and organizes student data, such as personal details, academic records, attendance, and grades, making it easier to access and update.
- **Improved Communication:** Facilitates communication between students, teachers, and administrators through notifications and announcements.
- **Enhanced Record Accuracy:** Reduces manual errors in data entry, ensuring accuracy in student records.
- **Attendance and Progress Tracking:** Enables real-time monitoring of attendance and academic progress, allowing timely interventions for students needing assistance.

Overall, the system enhances the efficiency, productivity and effectiveness of educational institutions.

Scope of the Project:

The scope of the **Student Management System** includes the management of student data, attendance, and academic performance within a controlled environment. The project will focus on providing:

- **Admin control**, enabling administrators to manage student records, attendance, academic results, and generate reports.
- **Student control**, allowing students to access their personal information, view attendance, and academic performance reports.

The system is intended for small to medium-sized educational institutions and can be expanded in the future with more features, such as class schedules, teacher assignments, and more robust reporting functionalities.

Features or Functionality of the Project:

The **Student Management System** includes the following key features, all accessible through a user-friendly, menu-driven interface:

1. **Admin Control:**

- **Student Registration:** Admins can add new student records with information such as name, ID, address, and contact details.
- **View Students:** Admins can display the list of students, with options to search and filter by name, ID, or academic performance.
- **Update Student Records:** Admins can edit existing student records to reflect changes in details like grades, contact information, and attendance.
- **Delete Student Records:** Admins can safely remove student records when a student is no longer enrolled.
- **Attendance Management:** Admins can track student attendance and generate attendance reports.
- **Academic Performance:** Admins can record student academic performance and generate detailed performance reports.
- **Report Generation:** Admins can generate and print various reports, including student lists, attendance summaries, and academic performance reports.
- **Exit:** The system can be closed safely through this option.

2. **Student Control:**

- **View Personal Details:** Students can access their personal information, including name, address, and contact details.
- **View Attendance and Academic Performance:** Students can view their own attendance records and academic results.
- **Generate Personal Report:** Students can generate a report summarizing their academic performance and attendance.
- **Exit:** Allows students to safely exit the system.

Menu Type and Functionality:

The system features a **menu-driven interface** with options categorized into admin and student functions. Upon login, the user will be directed to the respective control panel, based on their credentials:

- **Admin Menu:** Includes options for managing students, attendance, and academic records.

- **Student Menu:** Allows students to view their details and performance.

The interface is designed to be simple, efficient, and easy to navigate, making the system accessible to users with minimal technical expertise.