Project Title: Student Attendance Management System

Team Members

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Project Description

Our project is a *Student Attendance Management System,* is a software application developed for educational institutions to efficiently track, monitor and manage student attendance. This system provides a user-friendly interface for administrators allowing them to record and update attendance data for individual students quickly and accurately. It also allows students to view and track their own attendance record. Overall, this system streamlines attendance management processes, reduces paperwork and contributes to a more efficient and accountable educational environment.

Scope

The scope of this project will cover the following key features:

- Define user roles such as administrators and students with specific access permissions.
- Allows teachers to easily record and manage student attendance for classes.
- Ensures accurate and transparent attendance recording.
- Ensure data security and privacy by implementing a login ID user system.

Plan of Work

- Gather and analyze system requirements.
- Integrate attendance tracking methods.
- Develop the user registration and login modules.
- Implement password hashing and encryption.
- Test user authentication thoroughly.
- Create different user accounts.
- Define specific permissions for each role.
- Develop separate interfaces for administrators and students.

- Create a user interface for teachers to select classes and mark attendance.

Product Ownership

Functional features:

- User roles and access permissions - Siddharth Prakash
- User registration and login - Swarnika Banerjee

Non-Functional Features:

- Administrator interface design - Shruti Dewan and Siddharth Prakash
- Student interface design - Surya Achar and Swarnika Banerjee
- Data security and privacy - Surya Achar
- Testing - Shruti Dewan

Qualitative Properties

- User-friendly Interface: The system should have a user-friendly interface to ensure easy use for administrators and students.
- Reliability: The system should be accurate,reliable and consistent in recording the student attendance.
- Data Privacy: The system data should prioritize data and security using a login ID and password feature, so that the users can perform only the specific functions they are supposed to do.
- Transparency: The system should have an accurate and transparent method of attendance tracking.

Proposed Model for Development

Our project - “Student Attendance Management System” uses an *iterative and incremental* software development approach. The project's primary goal is to create a comprehensive software solution that efficiently records and manages student attendance while ensuring data security, user privacy and robust access control.