

STUDENT ATTENDANCE MANAGEMENT SYSTEM (SAMS)

Members (BSCS 2B):

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Description:

- Our Simple Student Attendance System is designed to make recording and managing student attendance at events easy and straightforward. Instead of complicated processes, we've kept it simple and user-friendly.

Key Features:

- Easy Student Identification:
 - You can record attendance by providing basic student details. No need for complex setups – just straightforward information.
- Basic Student Info:
 - Each student has essential details like their course, year level, and a simple ID number. This helps keep things organized without overwhelming you with unnecessary information.
- Event-Focused Tracking:
 - The system is tailored for specific events, making it easy to manage attendance for classes, workshops, or any gathering. No need to navigate through unnecessary features.
- Basic Real-Time Tracking:
 - You can keep an eye on attendance as it happens. The system provides simple reports, giving you a quick overview without diving into complicated data.
- Simple Interface:
 - We've made sure the interface is easy to use. No need for extensive training – just logs in and start recording attendance effortlessly.
- Basic Security Measures:
 - The user's students' information is kept secure access controls. We prioritize keeping things safe without making it overly complex.
- Basic Integration:
 - The system utilizes a simple form of integration by employing a static data approach, where student details are hard-coded into the program. The hard-coded method's helps simulate a student database without the need for a dedicated database management system. It's a practical solution without unnecessary complications, especially since this is just a prototype.

Logical Flow:

- Start:
 - User opens the application.
- Login or Create Account:
 - ❖ Start:
 - User opens the application.
 - ❖ Login:
 - The system prompts for administrator login credentials.
 - ❖ If New or First-Time Login:
 - The system offers default credentials to the new administrator.
 - The new administrator logs in using the default credentials.
 - After the first login, the system prompts the administrator to create a new account.
 - ❖ If User Creates an account:
 - From this point onward, the system will not accept the initially offered default credentials, ensuring that the administrator's own password is now required for login.
 - ❖ Check Credentials:
 - If the provided credentials are correct, the administrator is granted access to the system.
 - ❖ If Credentials are Incorrect:
 - The system displays an error message and prompts the administrator to enter a valid credentials.
- Main Frame:
 - The system presents options to choose whether to record a student or to view the recorded student list.
 - ❖ Record Attendance:
 - The system opens a panel to record student attendance for the selected course and year level.
 - To record a student in the attendance panel, the administrator must provide the following arguments:
 - ✓ Type of event
 - ✓ Student course
 - ✓ Year level
 - ✓ Student ID number
 - These arguments are essential for accurate and precise recording of student attendance.
 - ❖ View Recorded List:
 - To view the recorded list of students by course and year level, the administrator must provide the following arguments:
 - ✓ Course
 - ✓ Year level
 - These arguments are necessary to filter and display the relevant attendance records for the specified course and year level.
 - ❖ Logout Icon:
 - The administrator logs out of the system and goes back to the login panel.
- End:
 - When the user clicks the close button (usually represented by an 'X' in the upper right corner of the window), the application will be closed, thanks to the statement `setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE)`, which instructs the program to exit when the frame is closed.