**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.