Phase 1 System Integration

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Project Documentation

1.0 Kind of Software System

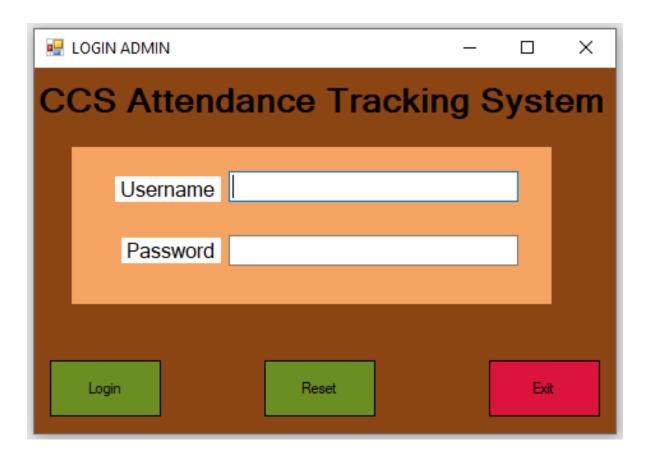
The software system is a student attendance system with RFID technology that automates the attendance-taking process and tracks student attendance.

1.1 Module / Scope of the Software System

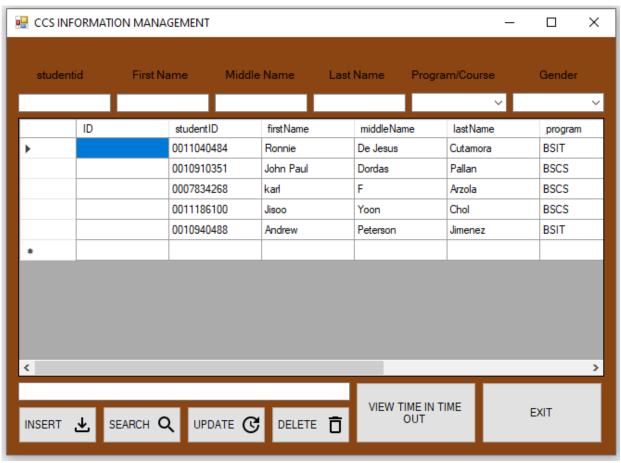
The modules of the software system include the following:

- 1.1.1 RFID Reader: This module registers the RFID cards of the students
- 1.1.2 Attendance Management: This module manages the attendance data, marks attendance, and generates attendance reports.
- 1.2 Screenshot of the Modules / Scope

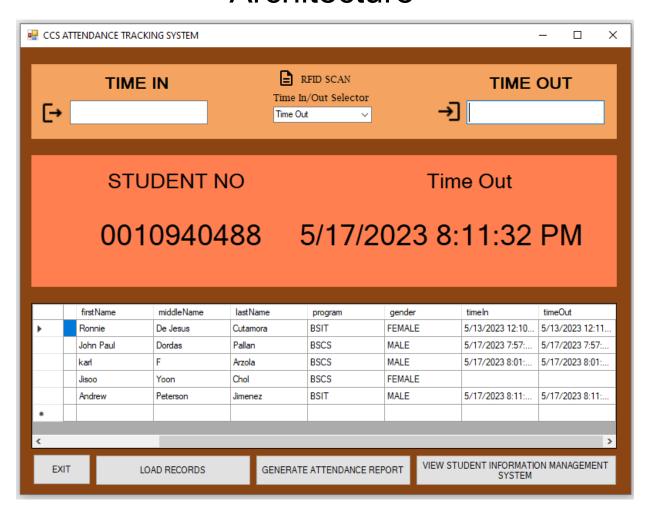
Phase 1 System Integration



Phase 1 System Integration – Admin Log-In Page



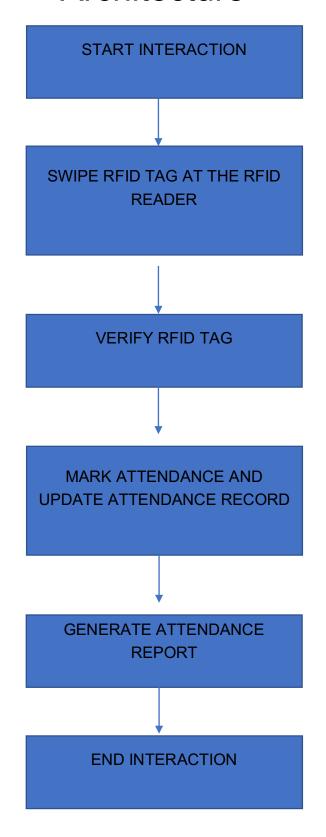
Phase 1 System Integration – Student Information Page



Phase 1 System Integration – Time-In/Out Page

1.3 User Flow Diagram

The user flow diagram shows how a typical user will interact with the software system. The user will first swipe their RFID tag at the RFID reader. The system will then mark their attendance, update their attendance record, and generate an attendance report.

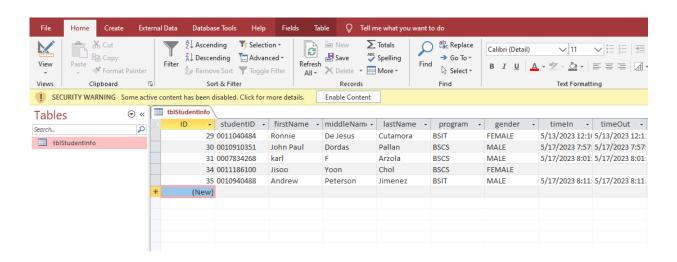


1.4 Database Tables and Fields

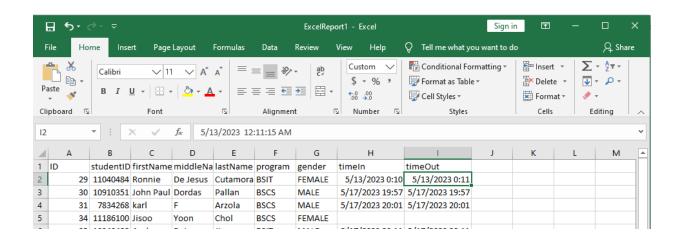
The following tables and fields are used in the software system:

1.4.1 Students table: This table stores information about each student, including the student ID, name, class, and attendance record.

1.5 Database Schema Screenshot



MS Access Database and MS Excel sample generated report



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1.6 System Flowchart

When a student swipes their RFID tag, the system reads the tag data and updates the attendance record in the database. The attendance management module generates attendance reports based on the data stored in the database. The student management module updates the student information in the database.

