PROJECT X
Automated Attendance System
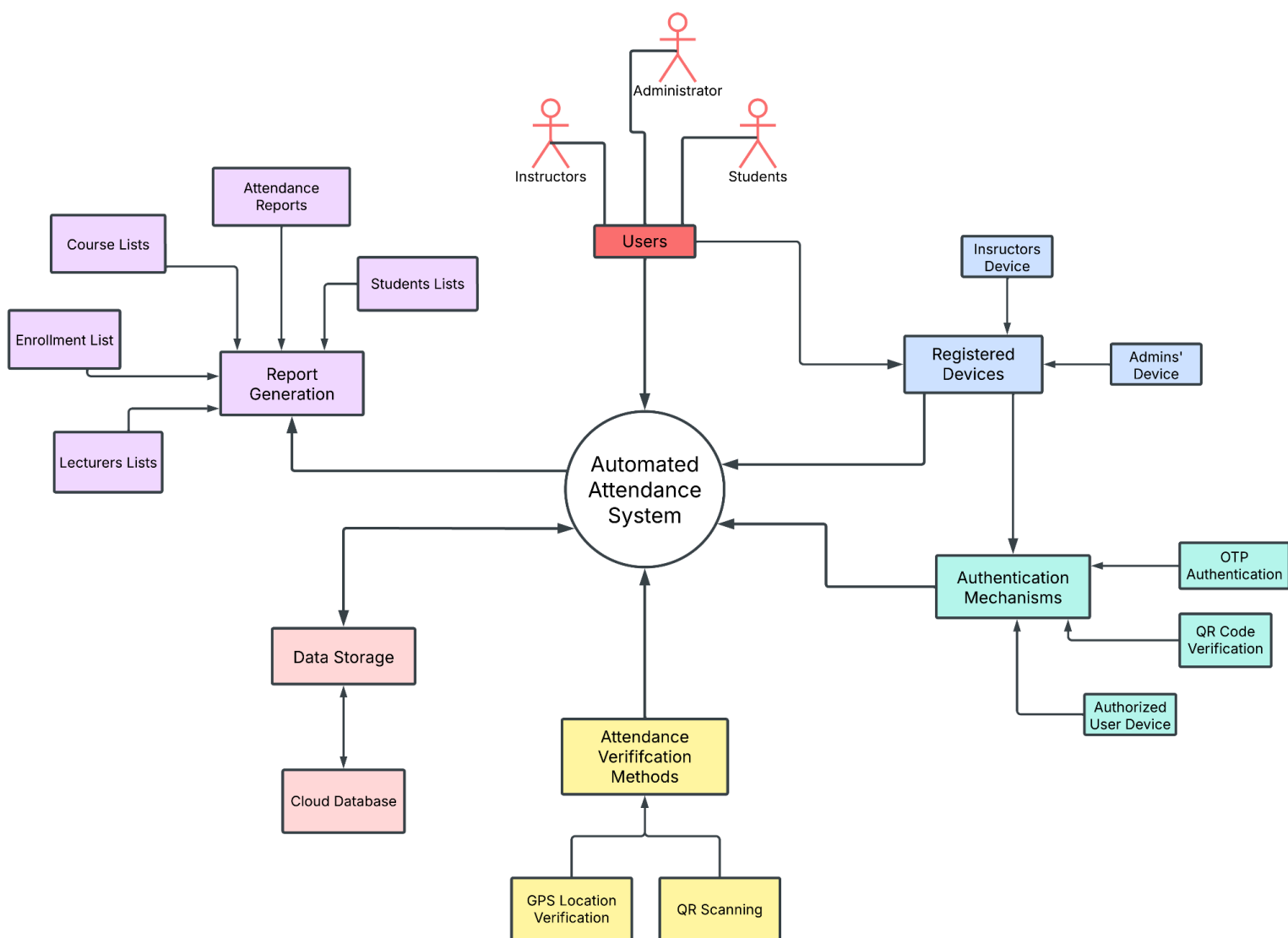
High-Level Use Case Diagram
Conceptual Model

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BSIT - 3C

Conceptual Diagram

Automated Attendance System

Use Case #1: Device Registration

Scenario: Instructor Device Registration and Usage

- An instructor logs into the system and navigates to the Device Registration section.
- They register a new phone by providing necessary details.
- The system links the phone to the instructor and stores the device ID.
- The instructor uses the phone to track student attendance.
- If the instructor loses the phone, they request the system to locate it.
- The system provides the last known location or other recovery options.
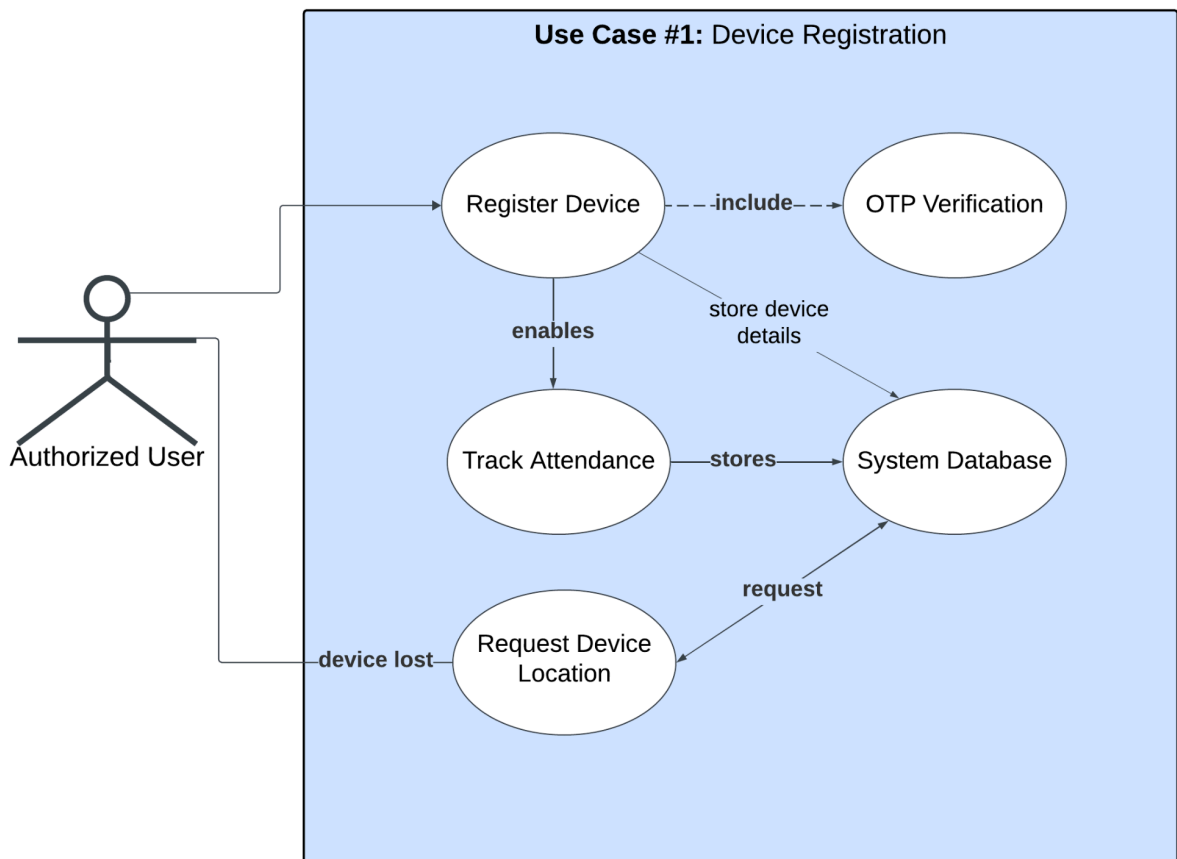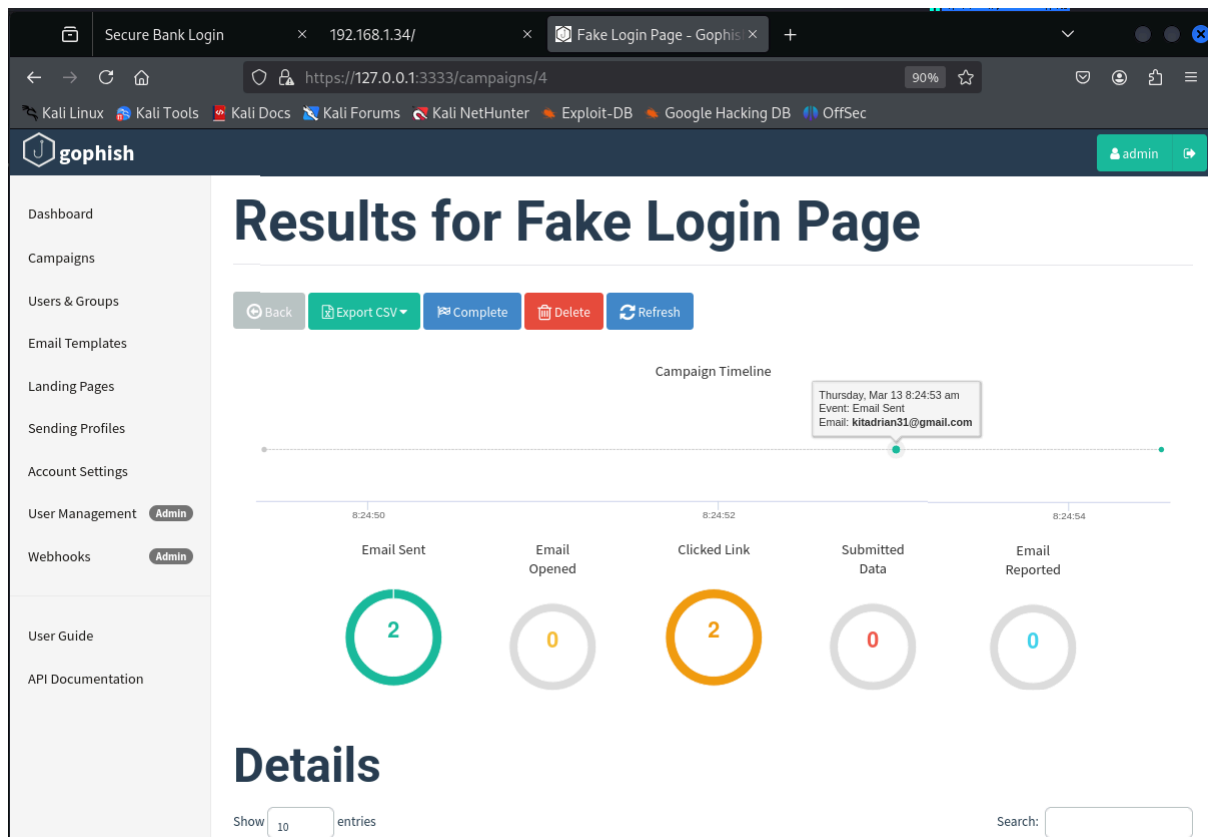
Use Case #2: Course Enrollment and Management

Scenario: Managing Courses and Student Enrollment

- The administrator logs into the system and navigates to the Course Management section.
- They create, update, or delete a course as needed. *(R09.5)*
- The administrator assigns a schedule and enrolls students in the course. *(R09.6)*
- If a student drops out, the administrator removes them from the course. *(R09.8)*
- The system updates student enrollment records.
- The administrator captures a passport-style photo of a student, along with their name and university ID. *(R07, R07.1, R07.2, R07.3)*

- The system stores the photo and details in the database for future identification.
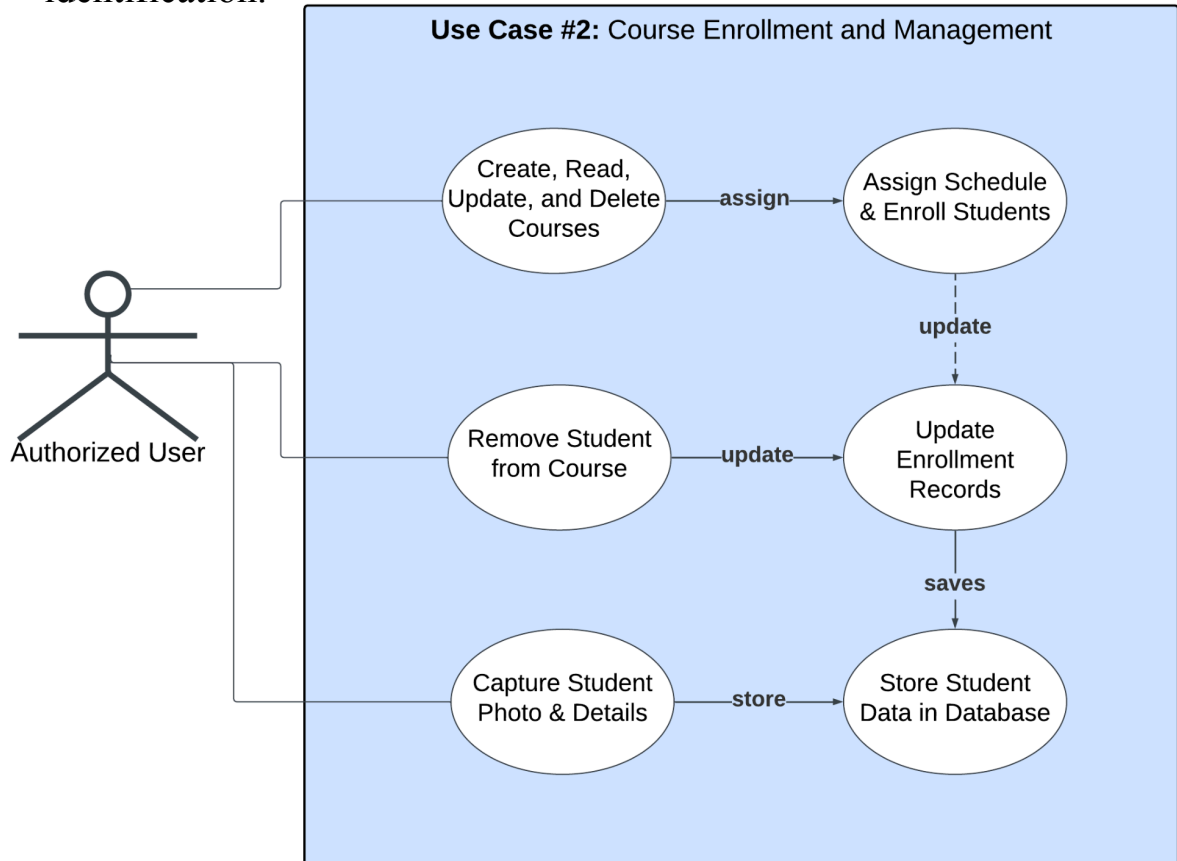
Use Case #3: Record Roll Call Attendance

Scenario: Instructor Recording Attendance

- The instructor logs into the system using a registered device.
- They navigate to the Attendance Tracking section.
- The instructor selects a course and the corresponding student list appears.
- The student displays a QR code generated on their device. *(R04)*
- The instructor scans the QR code to validate the student's identity.
- The system prompts for GPS verification to confirm the student's location. *(R03)*
- For additional security, the system enforces OTP authentication before finalizing attendance. *(R05)*
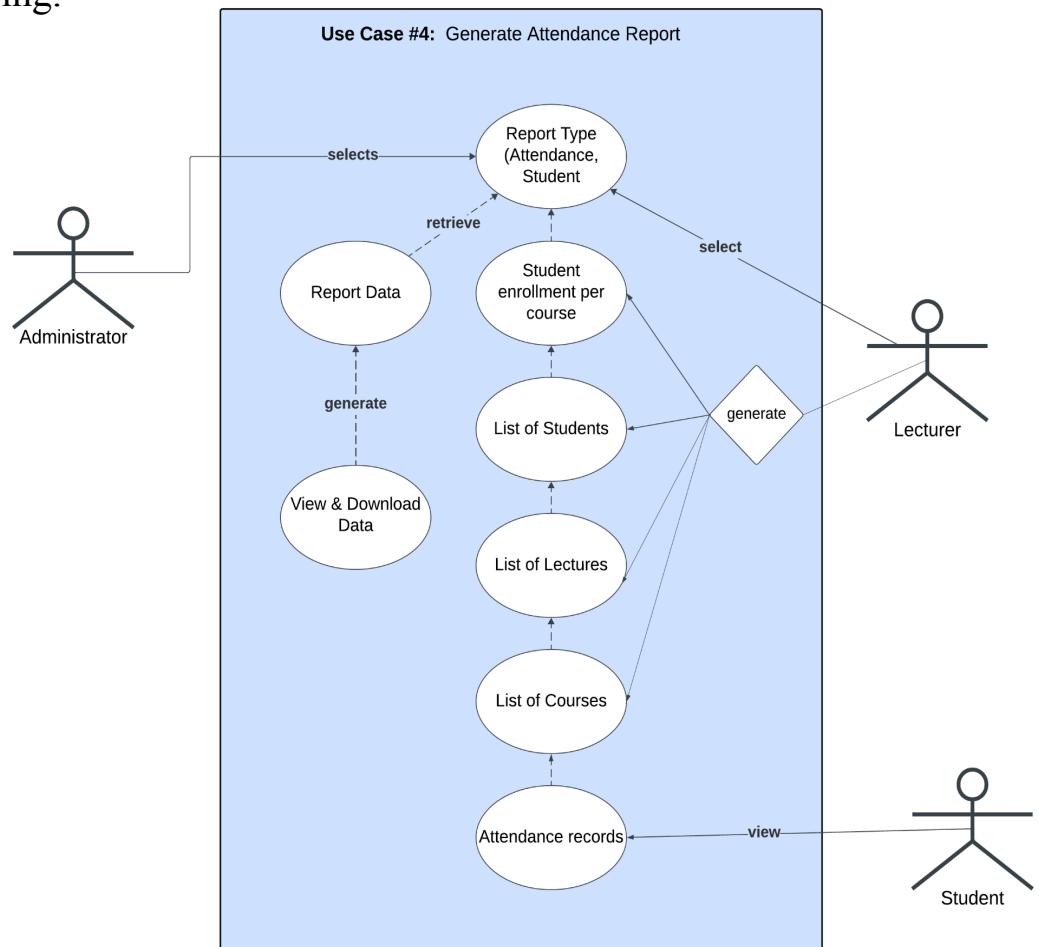- Once verified, the system records the attendance.
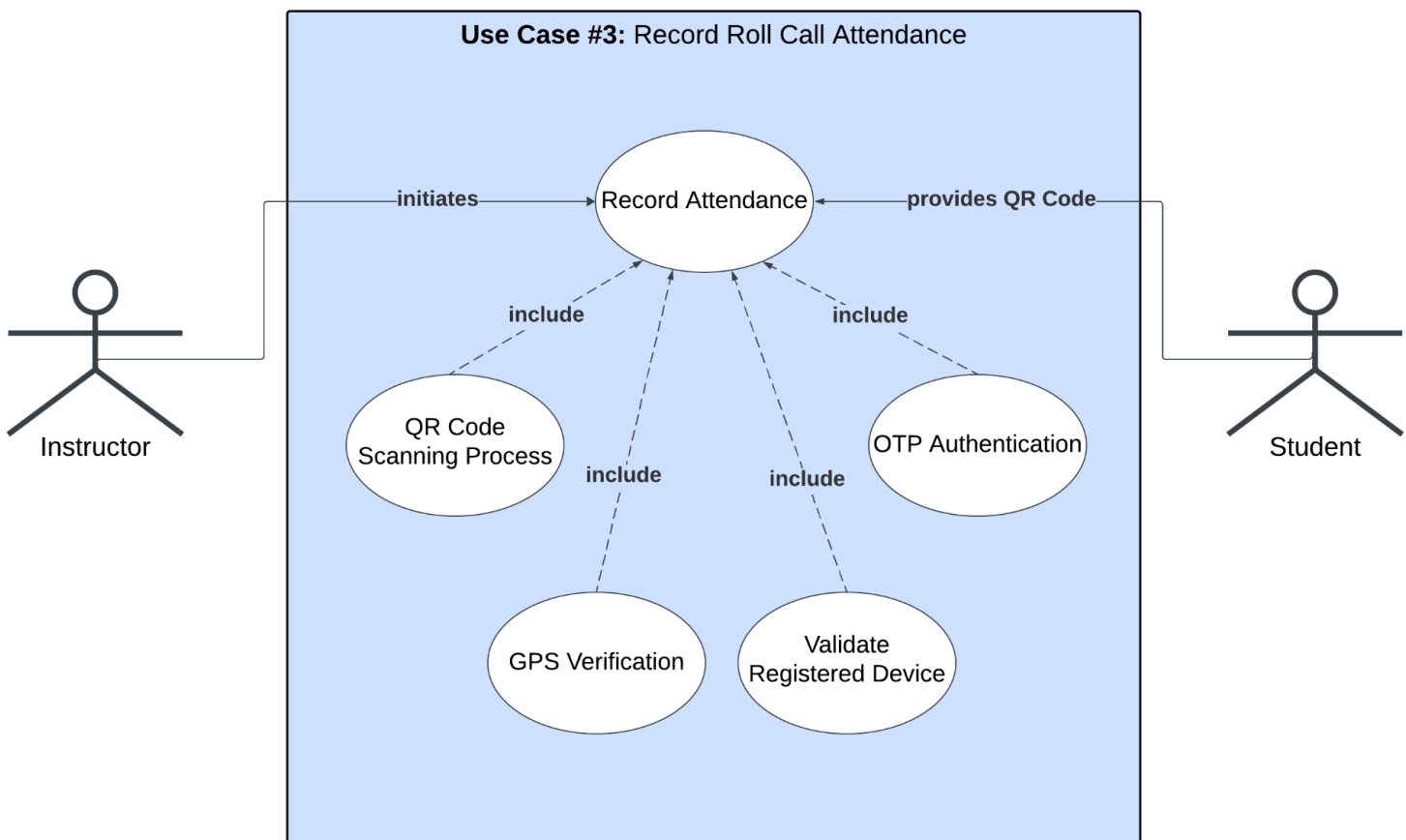
Case #4: Generate Attendance Report

Scenario: Administrator Generating Reports

- The administrator logs into the system and navigates to the Reports section.
- They select the type of report to generate:
    - Attendance records *(R06.1)*
    - List of students *(R06.2)*
    - List of lecturers *(R06.3)*
    - List of courses *(R06.4)*
    - Student enrollment per course *(R06.5)*
- The system retrieves the requested data from the database.
- The administrator views, downloads, or prints the report for record-keeping.

Use Case #5: Student Interface

Scenario: Student Viewing Attendance Records

- The student logs into the system and navigates to the Attendance Records section.
- The system displays their attendance history for verification. *(R010.1)*
- The student reviews their attendance details but cannot modify or delete any records. *(R010.2)*
- The student logs out after verifying their records.