SEMESTER END PROJECT EXAMINATION STUDENT ATTENDANCE AND PERFORMANCE TRACKER

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CLASS - II AI&DS - 'B'

59. Student Attendance and Performance Tracker Objective To create an online platform for managing student attendance, academic performance, and faculty feedback in a transparent and data-driven manner.

Core Use Cases

- Login & Authentication Secure login for students, faculty, and admins.
- Attendance Management Faculty can mark and update daily attendance.
- Performance Tracking Stores student grades and evaluation results.
- Feedback System Enables faculty to provide qualitative feedback.
- Report Generation Generates attendance summaries and grade charts.

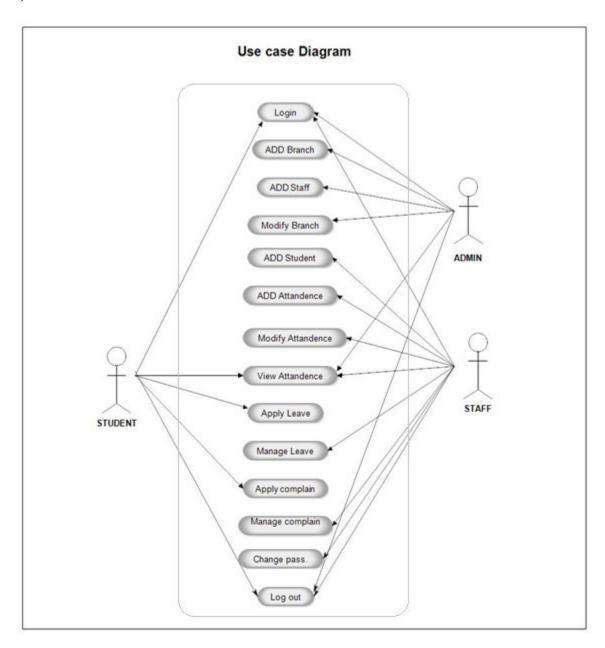
System Modules

- User Management Module Controls authentication and role access.
- Attendance Module Handles attendance entry and reporting.
- Performance Module Stores and analyzes academic performance.
- Feedback Module Records teacher comments and evaluations.
- Report Module Generates detailed student progress reports.

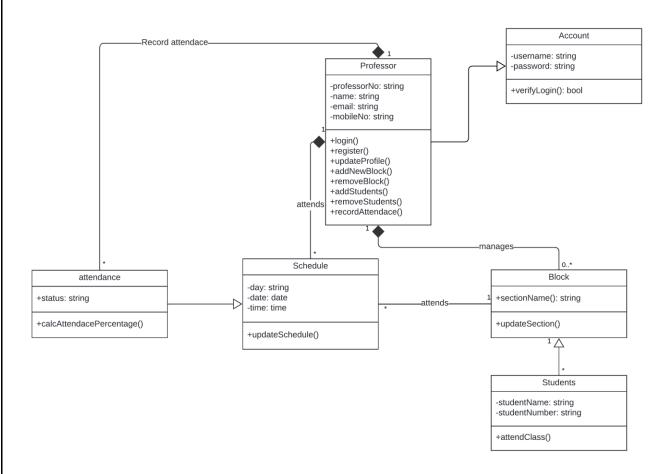
Expected Design Components

- Create UML diagrams for attendance and performance workflows.
- Provide an ER diagram based on student–faculty relationships.
- Design database tables for users, attendance, grades, feedback, and reports.
- Define RESTful APIs for student and faculty data management.
- Implement role-based authentication for access control.
- Include input validation and error handling.

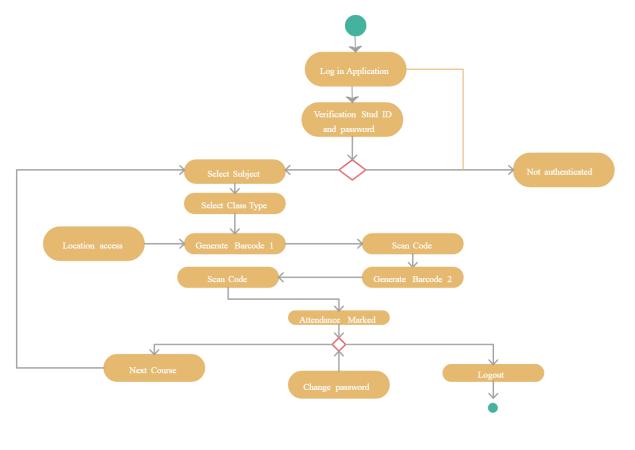
1)USE CASE DIAGRAM



2)CLASS DIAGRAM



3)INTERACTION DIAGRAM



4)ER DIAGRAM www.freeprojectz.com www.freeprojectz.com www.freeprojectz.com www.freeprojectz.com www.freeprojectz.con login_role_id login_username #login_id www.freepr reeprojectz.com www.freeprojectz.com www.freeprojectz.com www.freeproj user_password www.freeprojectz.com www.freepr www.freeprojectz.com www.freeprojectz.con Login #user id user_name #role id ww.freeprojectz.com www.freeproj user_mobile Has Roles role_name_ctz.c www.freepro www.freeprojectz.con user_email role_desc #per_id puser_address www.freeprojectz.com www.freeprojectz.com www.freeproj per_role_id Permission www.freeprojectz.com www.freeprojectz. www.freeprojectz.com www.freeprojectz.con per module per_name www.freeprojectz.com www.freeprojectz.com www.freeprojectz.com www.freeprojectz.com www.freeproj .freeprojectz.com www.freeprojectz.com www.freeprojectz.com Manage stu_name #stu_id reg_stu_id grd_desc stu_mobile #reg_id registration grd type grade student reg_name stu_add reg_desc grd_stu_id or #grd id www.freeprojectz www.freeproj stu email grd name www.freeprojectz.con stu_pass exam_desc #exam_id www.freeprojectz.com www.freeprojectz.com www.freeprojectz.com www.freeproj exam type www.freeprojectz.com www.freeprojectz.com www.freeprojectz.com www.freeprojectz.con www.freeprojectz.com **ER Diagram For Student Evolution System** www.freeprolectz.com www.freeprolectz.com www.freeprol

5)DB SCHEMA

