



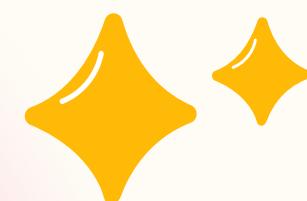
ADVANCED STUDENT PERFORMANCE MANAGEMENT SYSTEM

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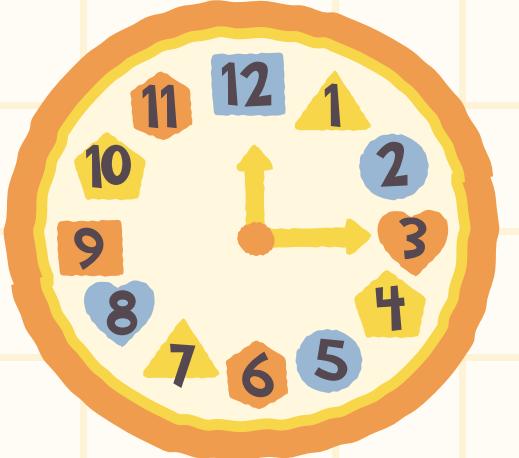
OVERVIEW

Why a study plan is important?



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This project is a student performance management system designed to help universities track student academic data efficiently. The system manages students, courses, grades, GPA calculation, and attendance, and provides alerts for low attendance. It improves accuracy, automation, and organization compared to manual systems.

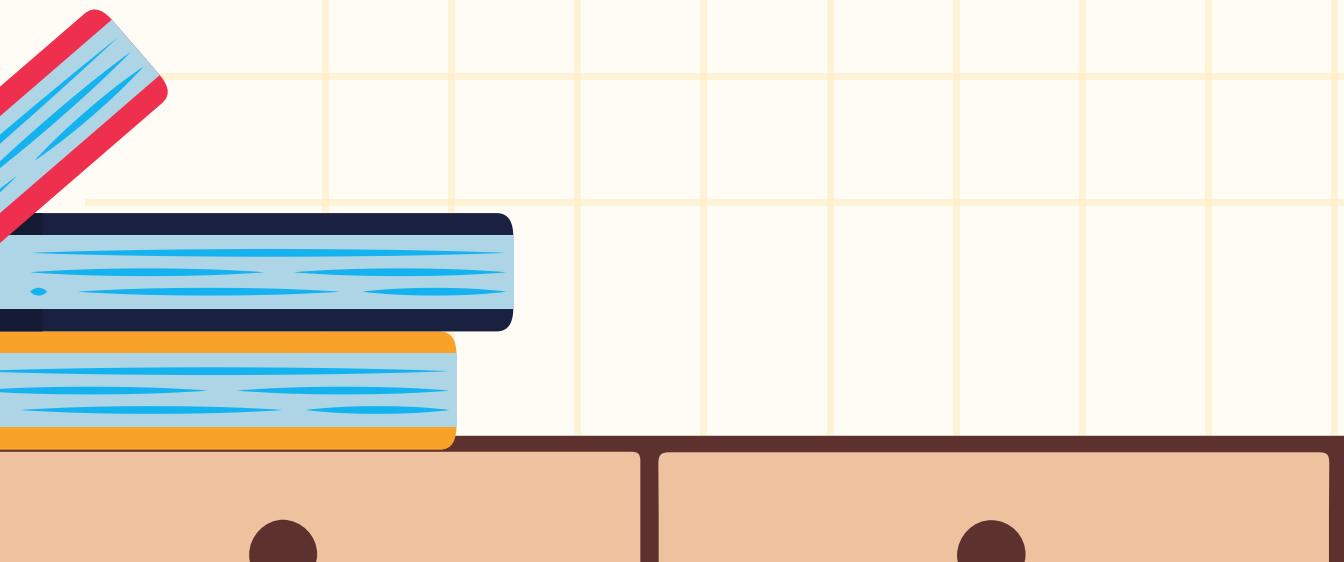


OOP

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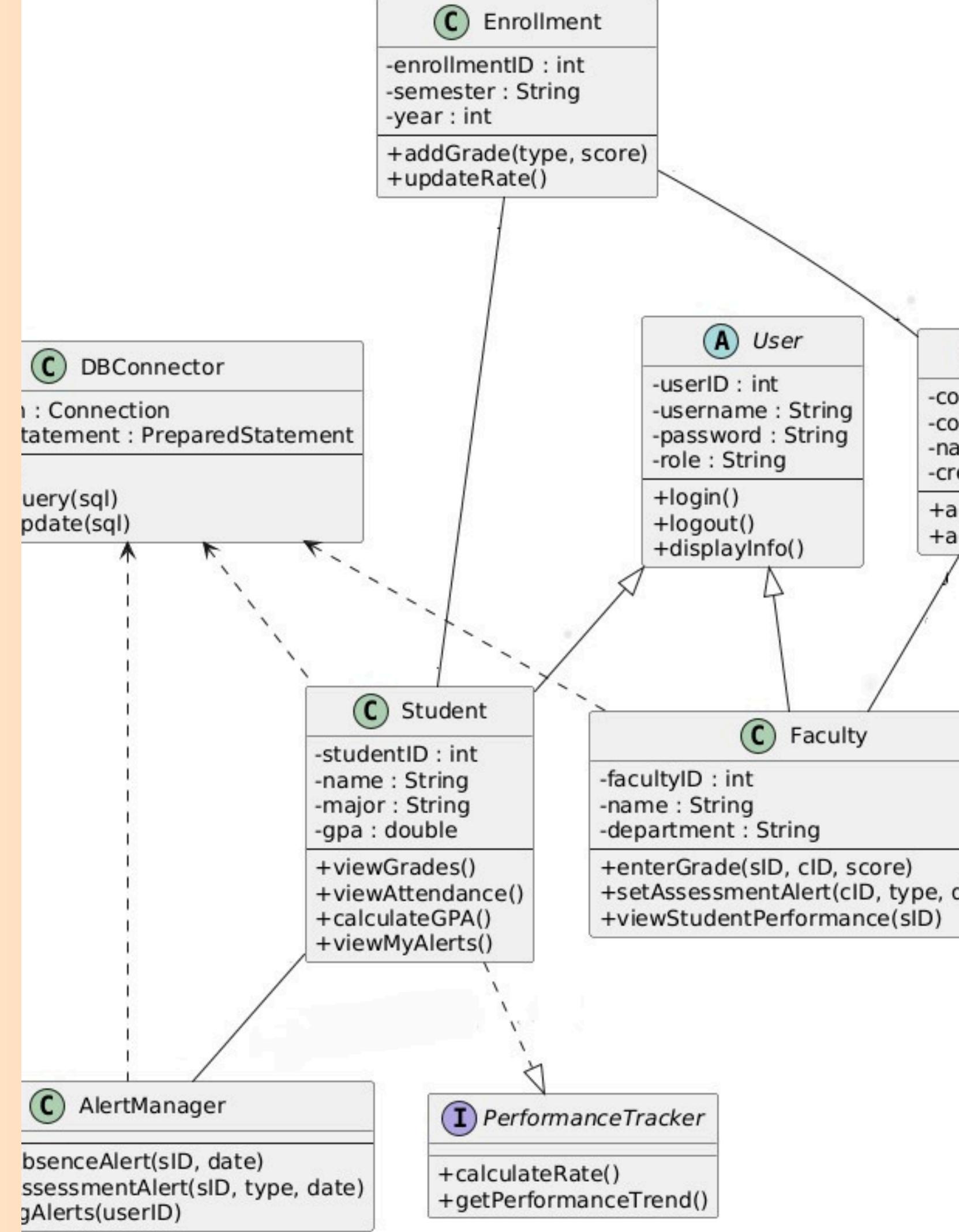
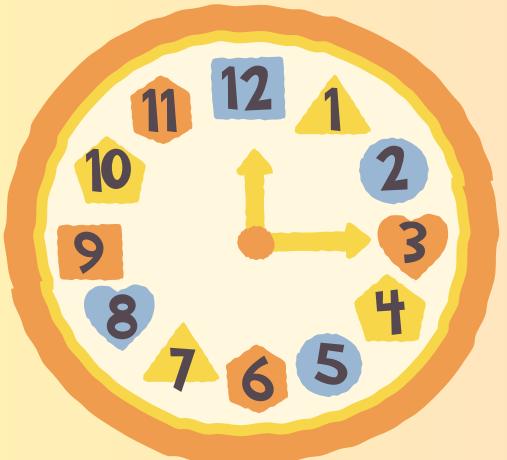
The project is built using Object-Oriented Programming (OOP) principles:

User is an abstract class for common behaviors. Student and Faculty inherit from User. Course and Enrollment manage academic data. AlertManager handles attendance alerts. DAO classes separate database logic from business logic.



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DATABASE

SQL

The system uses SQL Server database to store data safely.

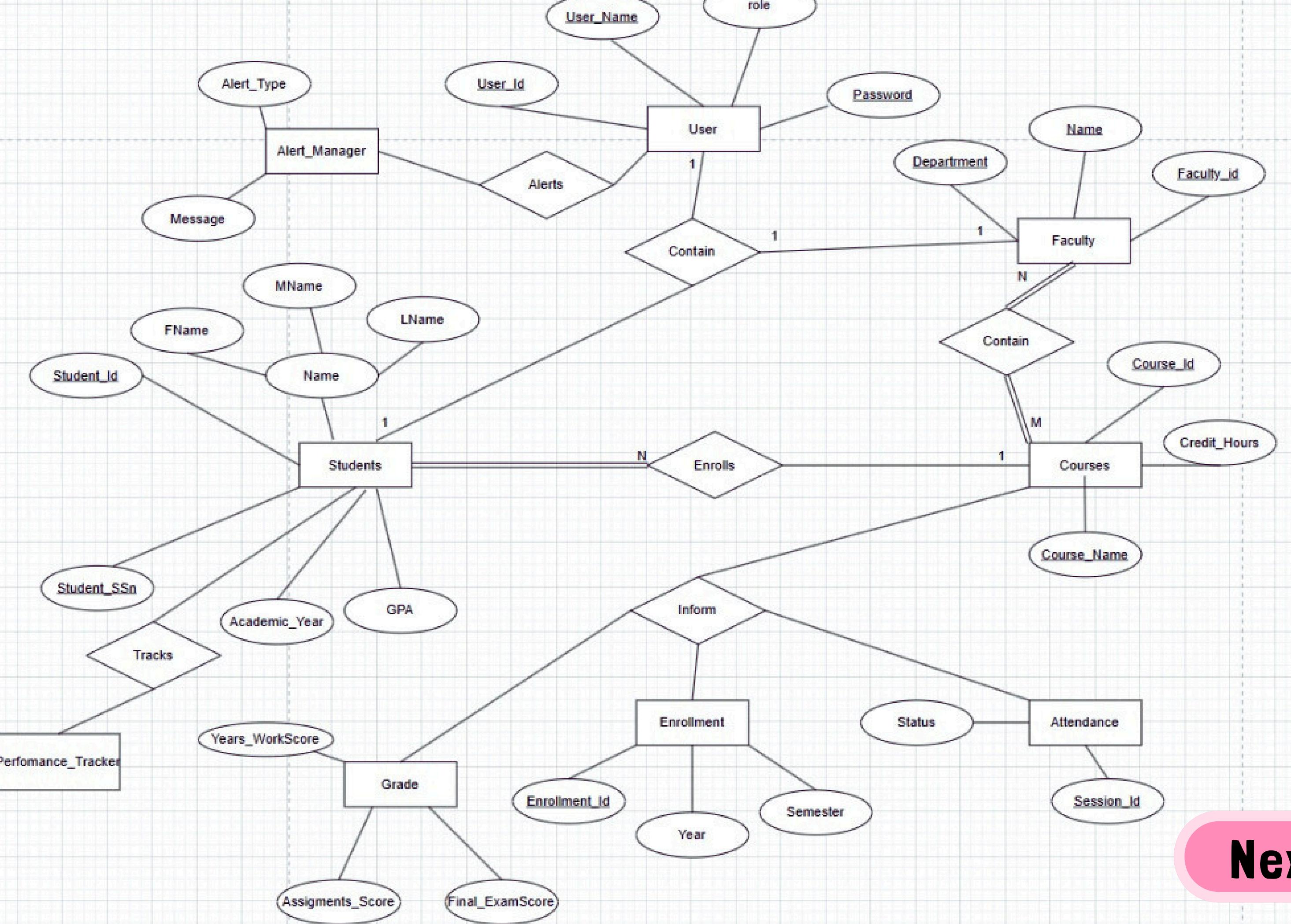
Main Tables

Users ,Students ,Faculty ,Courses ,Enrollments ,Attendance

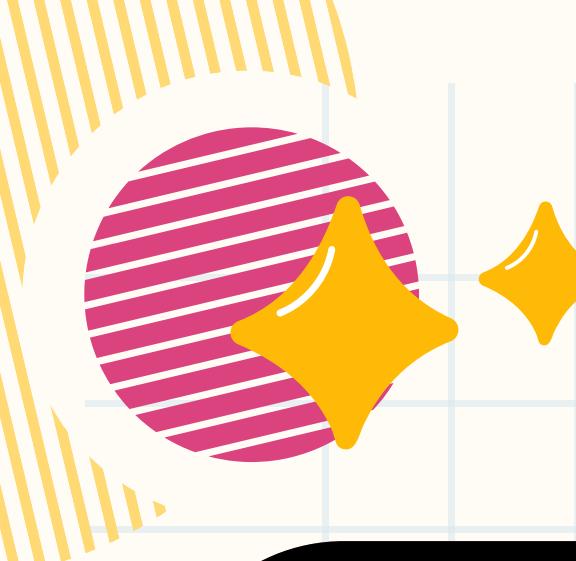


Each table is connected using primary and foreign keys to ensure data integrity.

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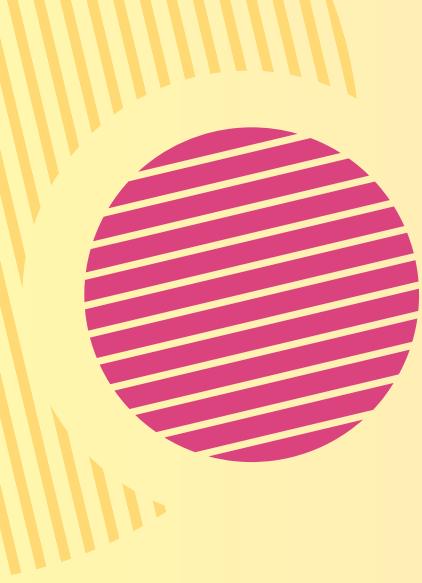
GUI

The GUI provides a simple and user-friendly interface:

- Login screen for authentication
- Student dashboard showing information
- Buttons for GPA, attendance, and reports

The GUI connects directly to the backend and database.

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Welcome



Username

ID

Login

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Student

Name

Section GPA

Subject	Score	Number of hours	Absences

[Logout](#)

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Faculty

Subject

Student ID

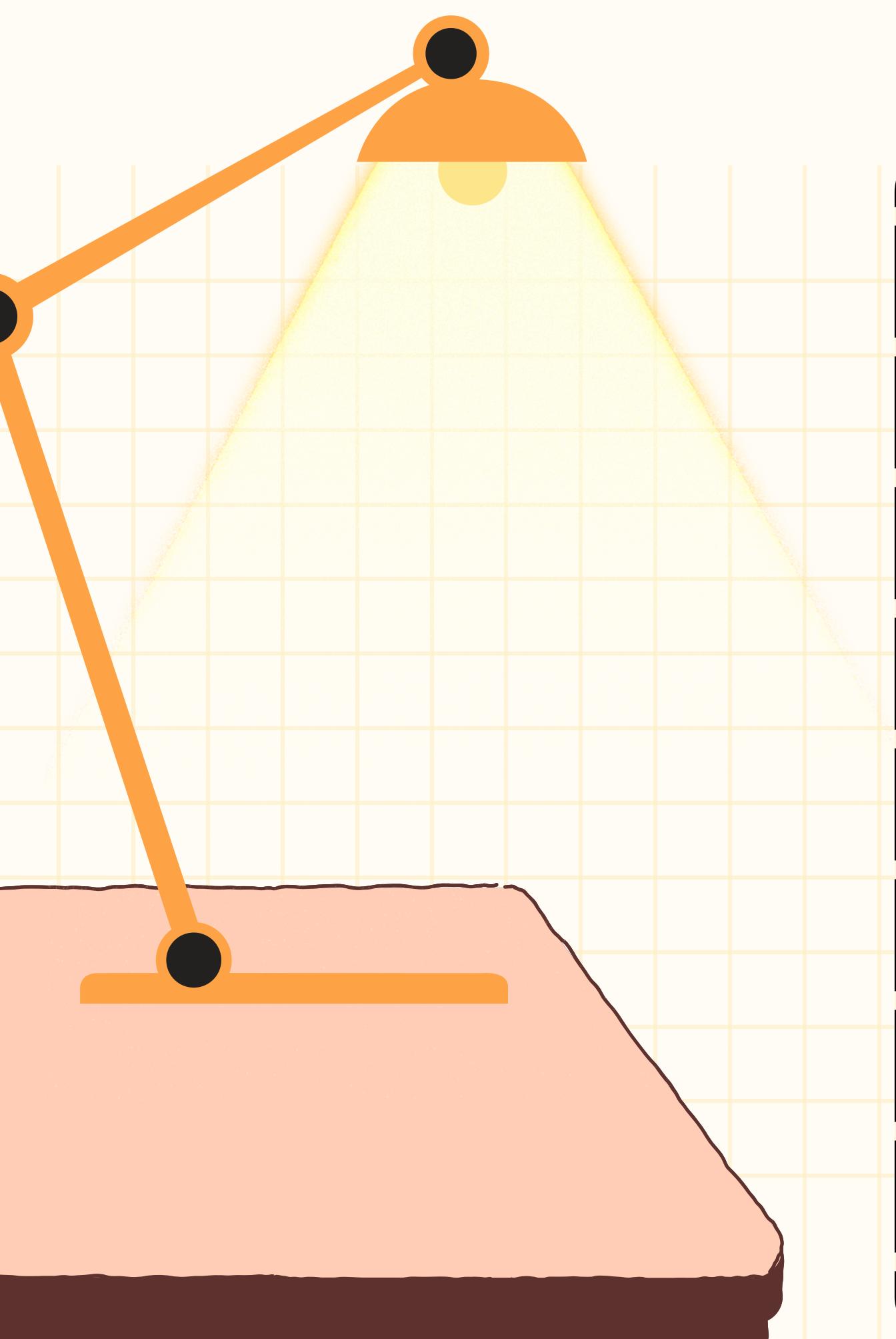
Score

Save



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DATABASE CONNECTION

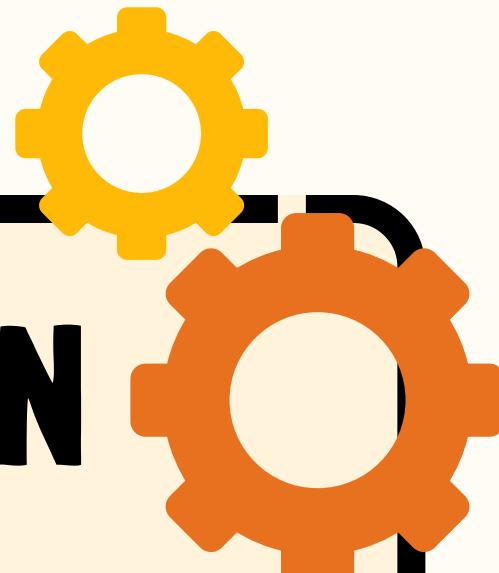
My Effective Study Methods

The project uses JDBC to connect Java with SQL Server.

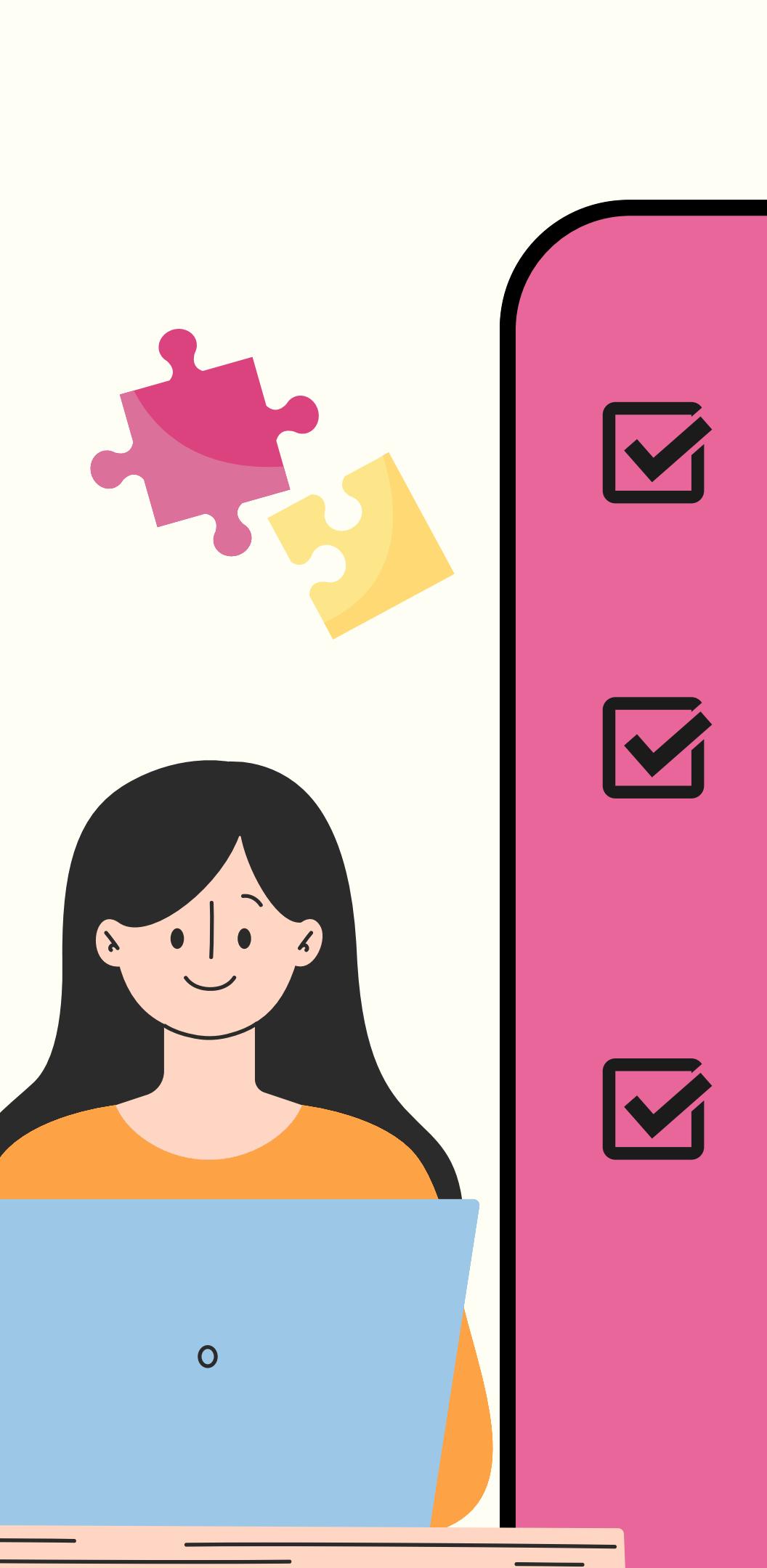
DBConnection class handles database connection
DAO Classes handle database operations:

- StudentDAO
- AttendanceDAO
- EnrollmentDAO
- User DAO

This separates logic from database access.



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APPLICATION FEATURES

- Secure login system using username and password
- Student performance tracking (grades & GPA calculation)
- Automatic GPA calculation from database records
- Attendance management with percentage calculation
- Absence alerts for low attendance
- Organized course and enrollment management
- Role-based system (Student / Faculty)
- Database-driven system using SQL Server
- Clean structure using OOP principles
- Reliable JDBC connection with DAO pattern
- Easy to maintain and scalable for future upgrades

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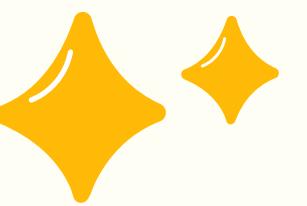
CONCLUSION

THE ADVANCED STUDENT PERFORMANCE MANAGEMENT SYSTEM IMPROVES ACADEMIC DATAMANAGEMENT BY PROVIDING ACCURACY, SECURITY, AND EFFICIENCY. IT OFFERS A RELIABLE SOLUTION FOR STUDENTS, FACULTY, AND ADMINISTRATORS TO MANAGE AND ANALYZE STUDENT PERFORMANCE EFFECTIVELY.

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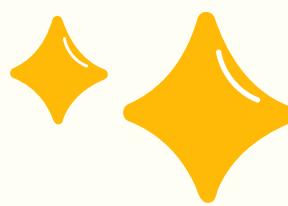


TEAM MEMBERS



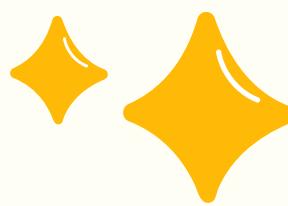
Dyaa

RESPONSIBLE FOR DESIGNING AND IMPLEMENTING THE DATABASE & RESPONSIBLE FOR CONNECTING THE DATABASE WITH THE OOP LOGIC AND ENSURING PROPER DATA INTEGRATION



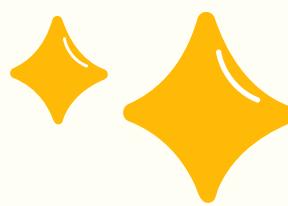
Mazen

RESPONSIBLE FOR IMPLEMENTING OBJECT-ORIENTED PROGRAMMING (OOP) CONCEPTS



Mohammed

RESPONSIBLE FOR DESIGNING AND DEVELOPING THE GRAPHICAL USER INTERFACE (GUI)

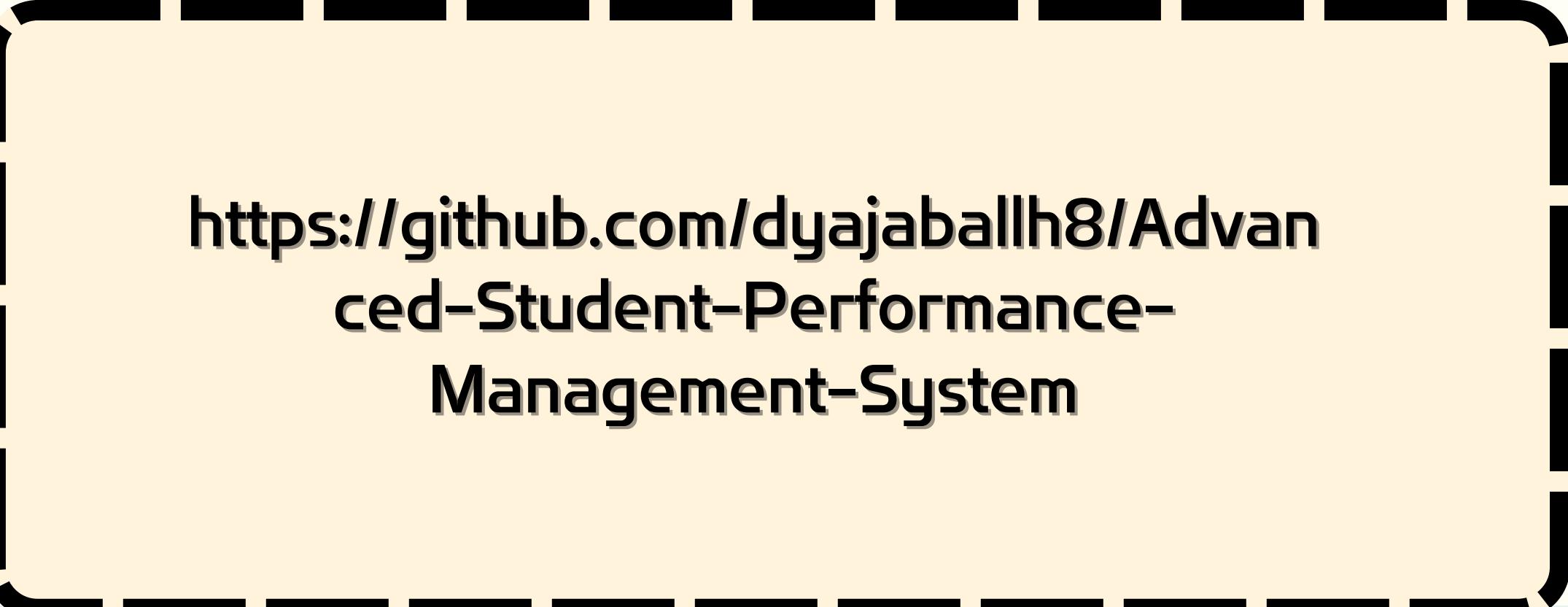


Yara

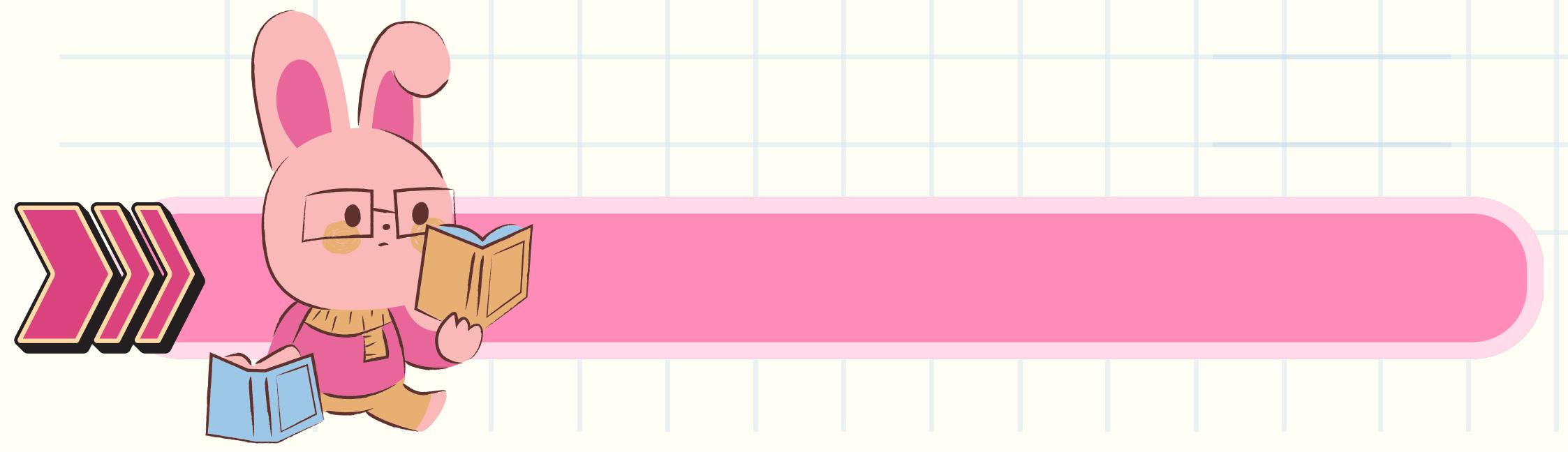
RESPONSIBLE FOR CONNECTING THE DATABASE WITH THE OOP LOGIC AND ENSURING PROPER DATA INTEGRATION & Presentation & Documentation



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<https://github.com/dyajaballh8/Advanced-Student-Performance-Management-System>



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THANK YOU!

Hopefully, this semester will have the best result for my academic progress.

