The assignment involves developing a Human Resource Management System (HRMS) to centralize and automate HR functions such as employee management, leave management, and attendance management. In Part A, we focused on the Employee Management System, defining the system scenario and purpose, detailing its scope, and developing the domain model. This included creating classes like Employee, Supervisor, and HRManager, along with their relationships and functionalities. We also implemented code for key operations such as creating, updating, and viewing employee details. This work sets the foundation for integrating other subsystems into a comprehensive HRMS.

In this assignment, we will implement the system design created in the first assignment, focusing on our designated subsystems. Each team member will translate use case diagrams, class diagrams, and sequence diagrams into actual Java code for their subsystem. We will incorporate interface and inheritance implementation, as well as design patterns like singleton and state, to enhance the system's structure and efficiency. Additionally, we will develop comprehensive unit tests to validate the functionality of our subsystems and participate in a peer code review process to ensure code quality and adherence to standards. The implementation will be managed using GitHub, ensuring proper version control and collaboration within the team.

In our project we implement the attendance , employee, leave and performance review subsystem. I every class there are 4 options.

For entering into our system, employee must enter username and password. If the password is wrong our system will provide error message. After successfully entering into the employee profile user have 4 options: user can see the menu. In the main main menu there are five oprions: employee details, attendance, leave, performance, logout.

Firstly, user can see employee details by pressing the menu 1 user will be able to check self information. All Subordinate information as well as employee subordinate information, also user can go to back by pressing menu 4.

In menu one

Enter your choice: 1

Employee Details Menu

1. Self

2. Subordinate (All)

3. Subordinate (Employee)

4. Back

In the attendance section, user can also have four option.

User can check self attendance, all subordinate attencence, also particular employee attendance, and by pressing men 4 any employee go back.

For performance review, employee can check their performance in the overall year.

There are also four options. Employee can check his own performance, all subordinate employess performance, also any particular employess performance, also go to back.

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