

Diagram Design on

“Garments Employee Management System”



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Course Number & Name:

CSE 3224 - Information & System Design Lab

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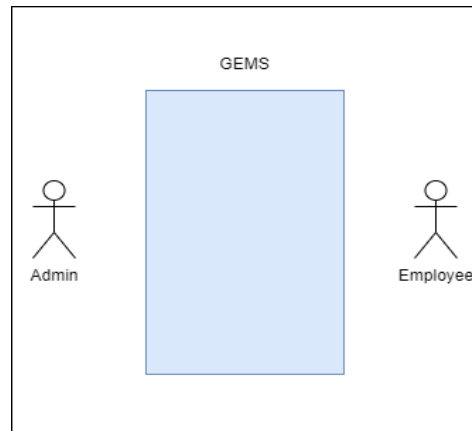
Date: 13.07.2023

Ahsanullah University Of Science & Technology

Department of Computer Science and Engineering

Use case diagrams:

LEVEL-0 USE CASE - SSMS

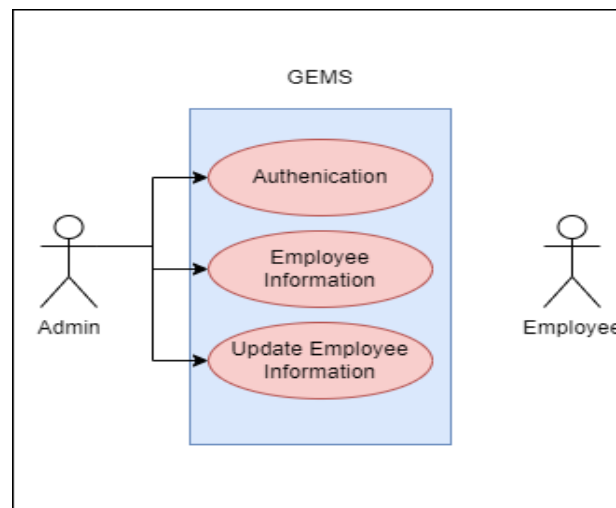


Level-0 Use case system

Description of Use case diagram level-0:

There will be total 2 kind of actors who directly or indirectly can interact with the system. Primary actors are those who will play action and get a reply from the system whereas secondary actors only produce or consume information. The 2 kind of actors are - 1. Admin 2. Employee

LEVEL-1 USE CASE - Authentication



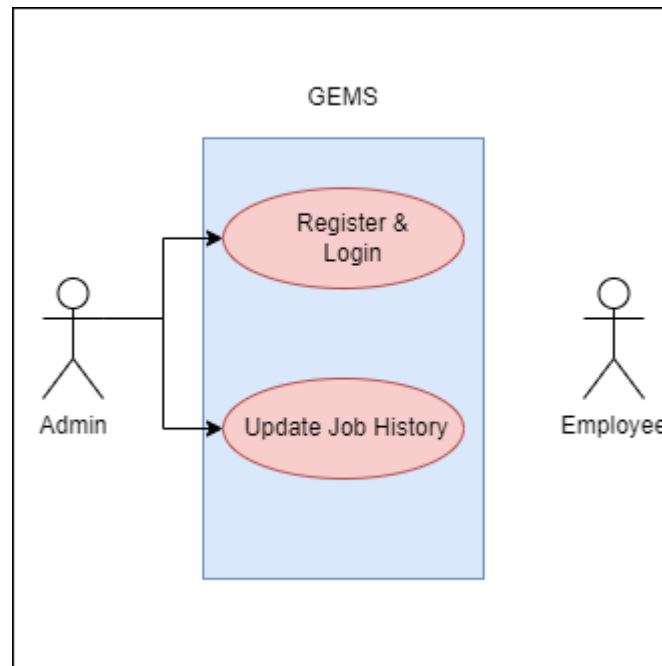
Level-1 Use Case - Authentication

Description of Use case diagram level-1:

There are multiple subsystems in Employee Management System. They are :

1. Authentication
2. Employee Information
3. Update Employee Information

LEVEL-1.1 USE CASE – Registration & Login



Level-1.1 Use case-Authentication

Description of Use case diagram level-1.1:

When the admin wants to log in, he needs to enter the username and password. If the username and password match, then, the login is successful “Login successful” message is shown. The system shows an error message if the username or password, or both are wrong and the user can try again to log into the system.

For Registration:

A1: User provides username and password

R1: System checks validity. If the username and password is valid, the system will allow the user to log into the account.

A2: User haven’t fulfilled all requirement. `

R2: The system will show an error message and allow the user to try again.

For Login:

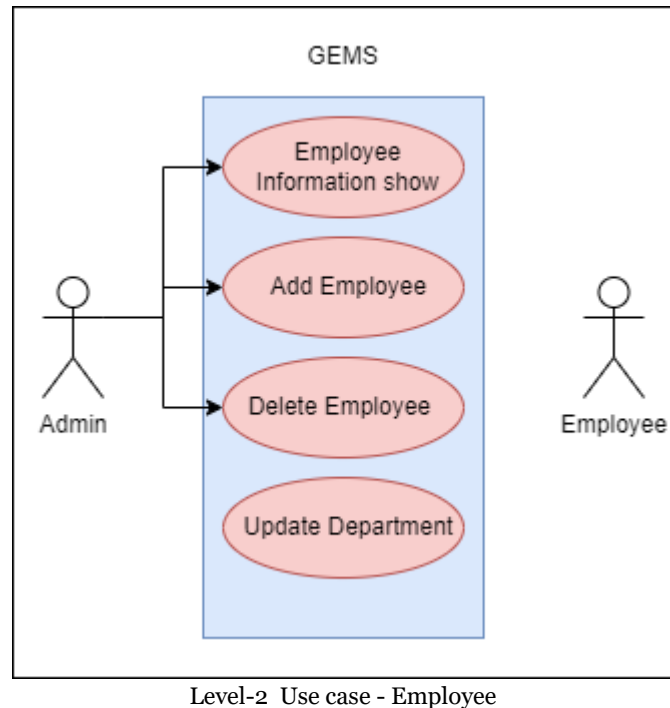
A1: User provides username and password

R1: System checks validity. If the username and password is valid, the system will allow the user to log into the account.

A2: User haven’t fulfilled all requirement. `

R2: The system will show an error message and allow the user to try again.

LEVEL-2 USE CASE - Employee



Level-2 Use case - Employee

Description of Use case diagram level-2:

Admin & Employee both can observe the Employee's information but to update(insert/delete/update) it, only admin will get this access. When the user wants to update or observe the Employee's information of an employee, he will select the Employee button from the home. If user wants to see the Employee's information of any employee, he will provide employee ID and Employee's information of that employee will be shown. Then if the admin wants to update the Employee's information he will provide the employee id & give the required information of the employee.

For Observe the Employee's information:

A1: User will select the Employee button from the home.

R1: System will shift the user into the Employee's information window

A2: User will provide employee ID in search bar

R2: The system will show Employee's information of that employee

For insert the Employee's Information:

A1: Admin will click insert button from employee window

R1: System will show a new window to insert all required information of an employee

A2: Admin will provide the information

R2: System will collect the information and insert it to the Database

A3: Admin provide invalid/blank information

R3: System will show invalid information message.

For delete the Employee's Information:

A1: Admin will provide employee id in search bar

R1: System will display the information of that employee

A2: Admin will select the id & click delete button

R2: System will display a pop-up window to confirm this action

A3: Admin will confirm for this action to be happened from the pop up window

R3: System will delete that employee's information from the database

For update the Employee's Information:

A1: Admin will provide employee id in search bar

R1: System will display the information of that employee

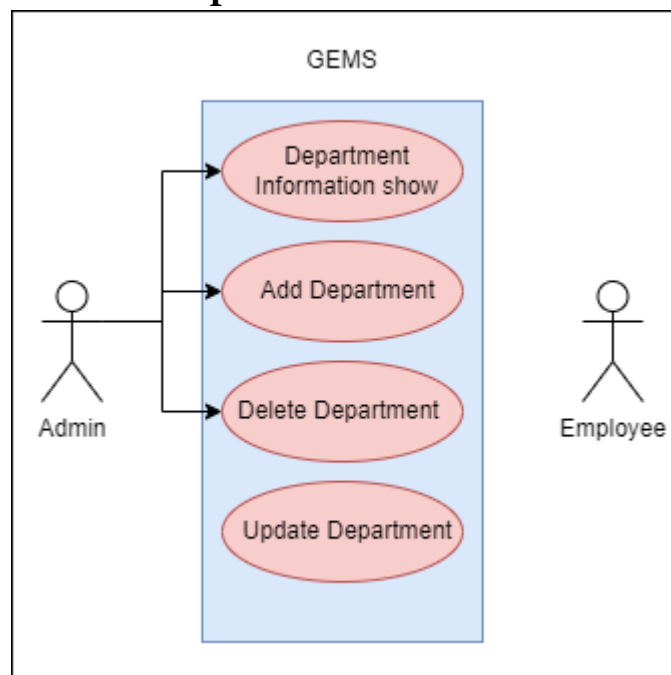
A2: Admin will select the id & click update button

R2: System will display all information of that employee in a new window

A3: Admin will update any information that has to be changed and click update button

R3: System will update that employee's information in database

LEVEL-3 USE CASE - Department



Level-3 Use case - Department

Description of Use case diagram level-3:

Admin & Employee both can observe the Department information but to update(insert/delete/update) it, only admin will get this access. When the user wants to update or observe the Department information of an employee, he will select the Employee button from the home. If user wants to see the Department information of any employee, he will provide employee ID and Department information of that employee will be shown. Then if the admin wants to update the Department information he will provide the employee id & give the required information of the employee.

For Observe the Department information:

A1: User will select the Department button from the home.

R1: System will shift the user into the Department information window

A2: User will provide employee ID in search bar

R2: The system will show Department information of that employee

For insert the Department Information:

A1: Admin will click insert button from Department window

R1: System will show a new window to insert all required information of an employee

A2: Admin will provide the information in search bar

R2: System will collect the information and insert it to the Database

A3: Admin provide invalid/blank information

R3: System will show invalid information message.

For update the Department Information:

A1: Admin will provide employee id in search bar

R1: System will display the department information of that employee

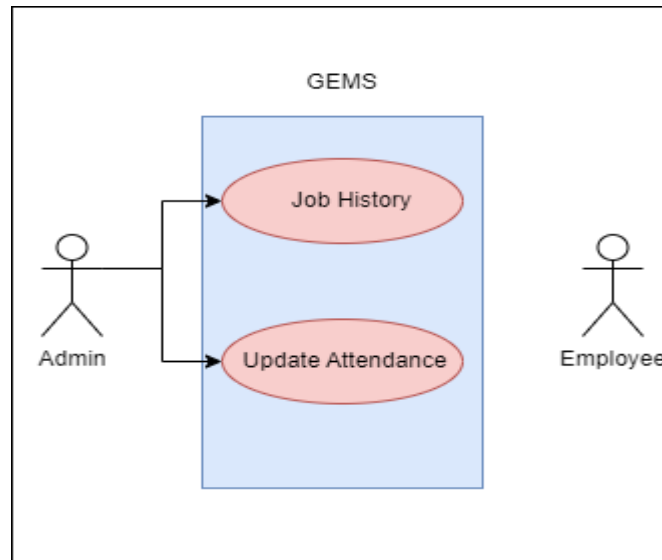
A2: Admin will select the id & click update button

R2: System will display department information of that employee in a new window

A3: Admin will update any information that has to be changed and click update button

R3: System will update that employee's department information in database

LEVEL-4 USE CASE – Job History



Level-4 Use case – Job History

Description of Use case diagram level-4:

When the admin wants to update or observe the job history of an employee, he will select the job history button from the home. If admin wants to see the job history of any employee, he will provide employee ID and Job history of that employee will be shown. Then if the admin wants to update the job history he will provide the employee id & give the required information for the employee.

For Observe the Job history:

A1: User will select the job history button from the home.

R1: System will shift the user into the Job history window

A2: User will provide employee ID in search bar

R2: The system will show Job history of that employee

For update the Job history:

A1: Admin will provide employee ID in search bar

R1: System will show a window to provide required information for the employee.

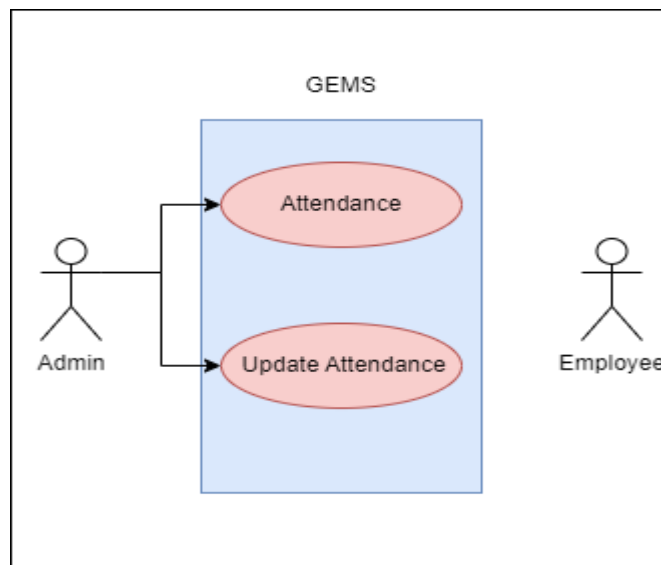
A2: Admin will provide the information

R2: System will collect the information and save it to the Database

A3: Admin provide invalid information

R3: System will show invalid information message.

LEVEL-5 USE CASE - Attendance



Level-5 Use case – Attendance

Description of Use case diagram level-5:

Admin & Employee both can observe the Attendance information but to update it, only admin will get this access. When the user wants to update or observe the Attendance information of an employee, he will select the Attendance button from the home. If user wants to see the Attendance information of any employee, he will provide employee ID and Attendance information of that employee will be shown. Then if the admin wants to update the Attendance information he will provide the employee id & give the required information of the employee.

For Observe the Attendance information:

A1: User will select the Attendance button from the home.

R1: System will shift the user into the Attendance window

A2: User will provide employee ID in search bar

R2: The system will show Attendance information of that employee

For update the Attendance Information:

A1: Admin will provide employee ID in search bar

R1: System will show a window to provide required information for the employee.

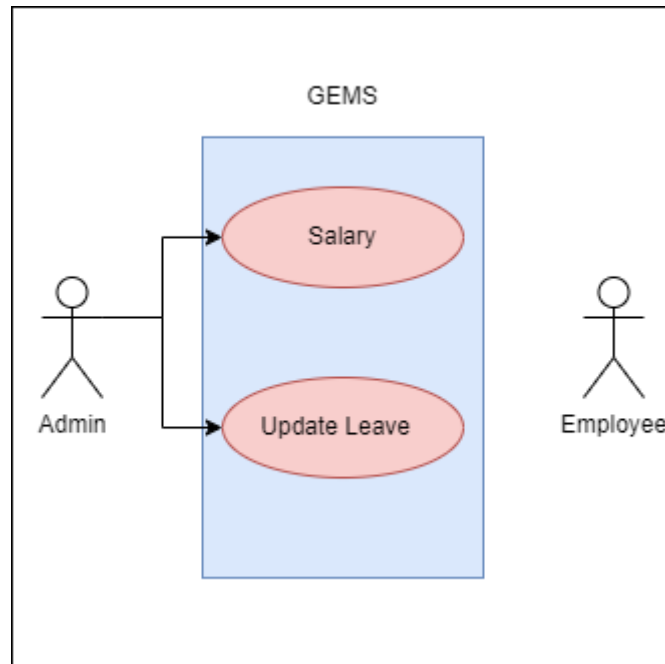
A2: Admin will provide the information

R2: System will collect the information and save it to the Database

A3: Admin provide invalid information

R3: System will show invalid information message.

LEVEL-6 USE CASE - Salary



Level-6 Use case - Salary

Description of Use case diagram level-6:

Admin & Employee both can observe the Salary information but to update it, only admin will get this access. When the user wants to update or observe the Salary information of an employee, he will select the Salary button from the home. If user wants to see the Salary information of any employee, he will provide employee ID and Salary information of that employee will be shown. Then if the admin wants to update the Salary information he will provide the employee id & give the required information of the employee.

For Observe the Salary information:

A1: User will select the Salary button from the home.

R1: System will shift the user into the Salary window

A2: User will provide employee ID in search bar

R2: The system will show Salary information of that employee

For update the Salary Information:

A1: Admin will provide employee ID in search bar

R1: System will show a window to provide required information for the employee.

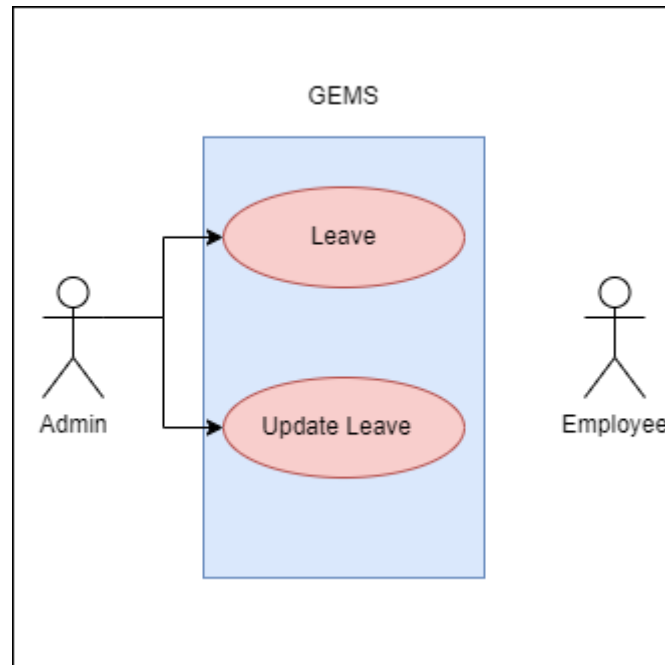
A2: Admin will provide the information

R2: System will collect the information and save it to the Database

A3: Admin provide invalid information

R3: System will show invalid information message.

LEVEL-7 USE CASE - Leave



Level-7 Use case - Leave

Description of Use case diagram level-7:

Admin & Employee both can observe the leave information but to update it, only admin will get this access. When the user wants to update or observe the job history of an employee, he will select the Leave button from the home. If user wants to see the job history of any employee, he will provide employee ID and leave information of that employee will be shown. Then if the admin wants to update the leave information he will provide the employee id & give the required information of the employee.

For Observe the Job history:

A1: User will select the Leave button from the home.

R1: System will shift the user into the Leave window

A2: User will provide employee ID in search bar

R2: The system will show Leave information of that employee

For update the Leave Information:

A1: Admin will provide employee ID in search bar

R1: System will show a window to provide required information for the employee.

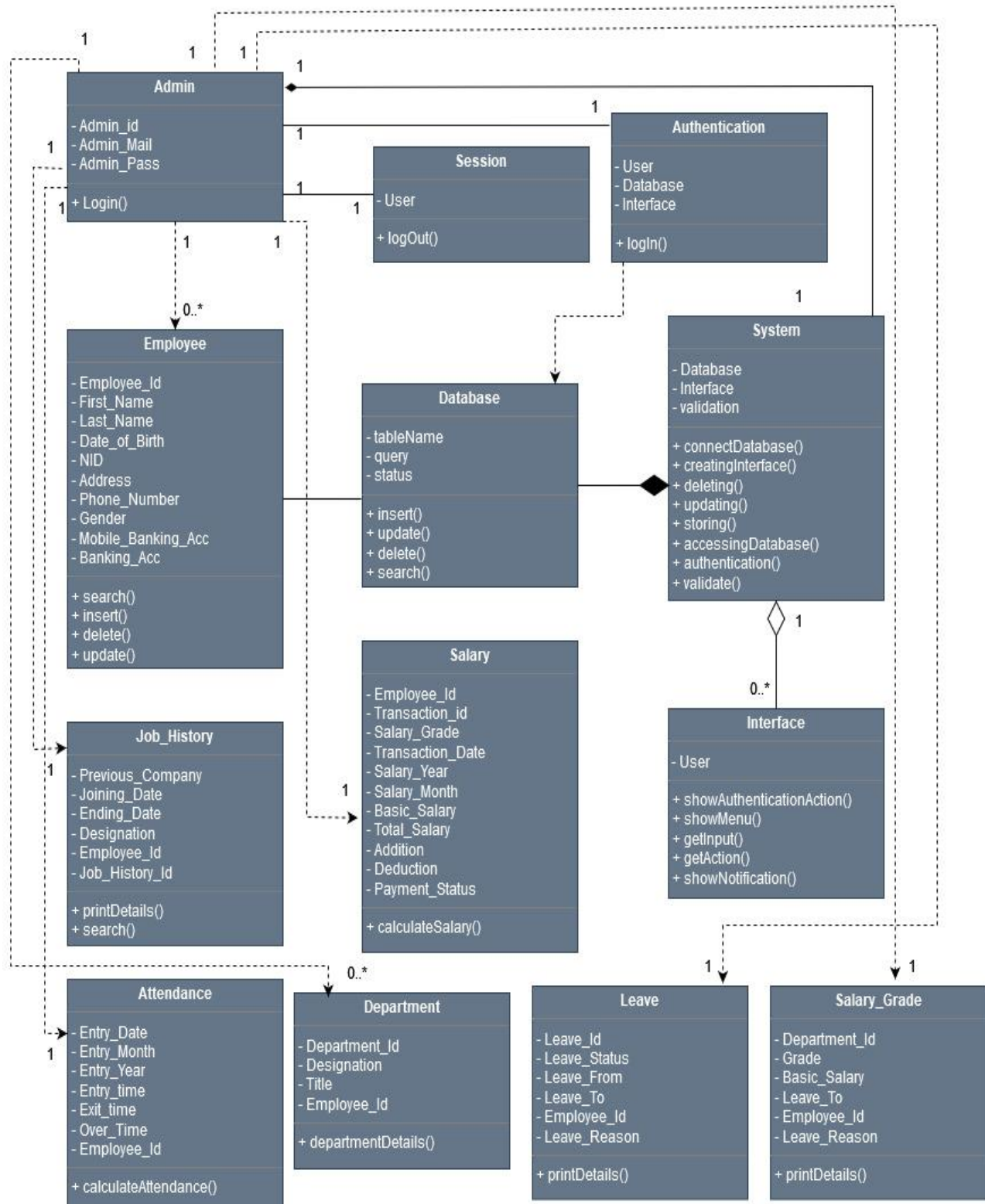
A2: Admin will provide the information

R2: System will collect the information and save it to the Database

A3: Admin provide invalid information

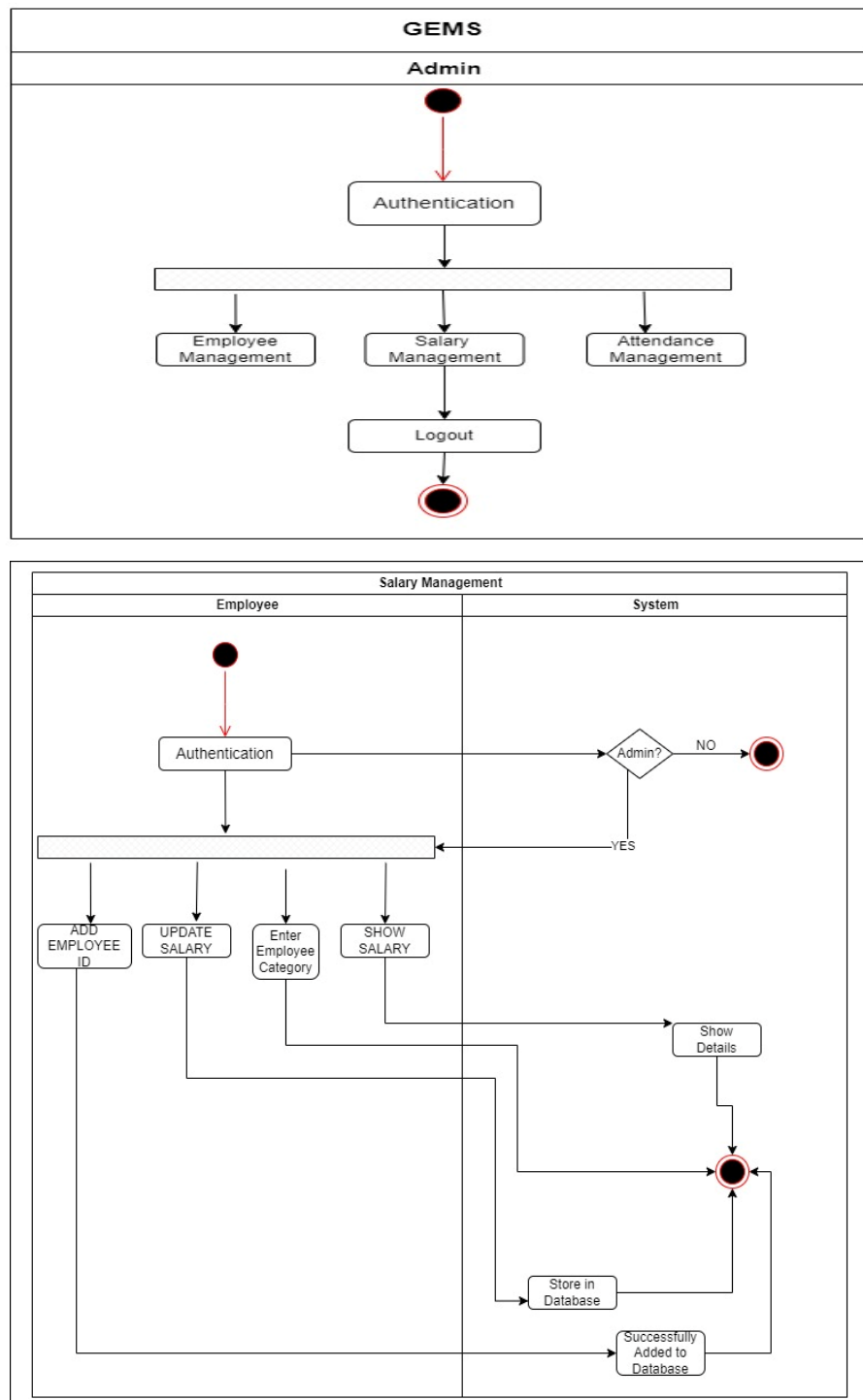
R3: System will show invalid information message.

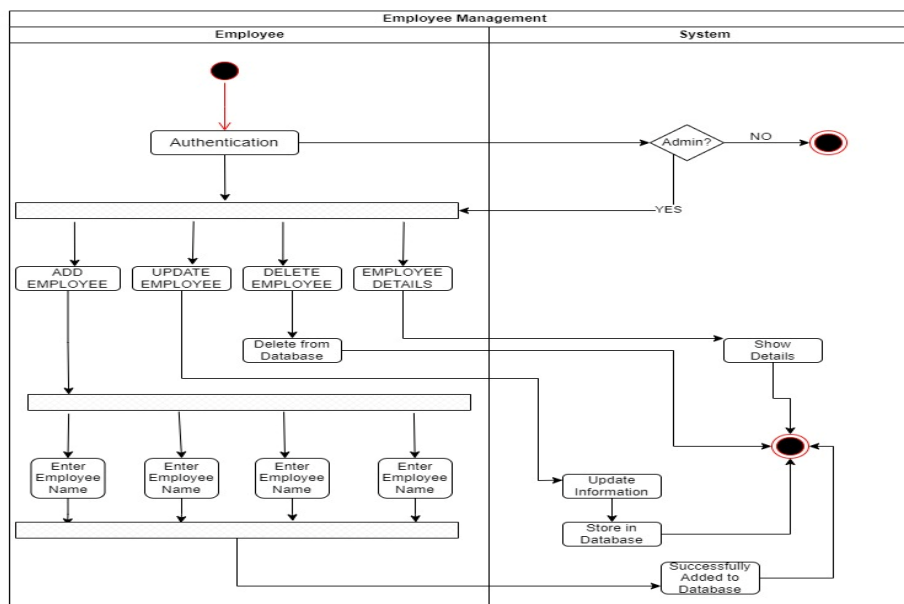
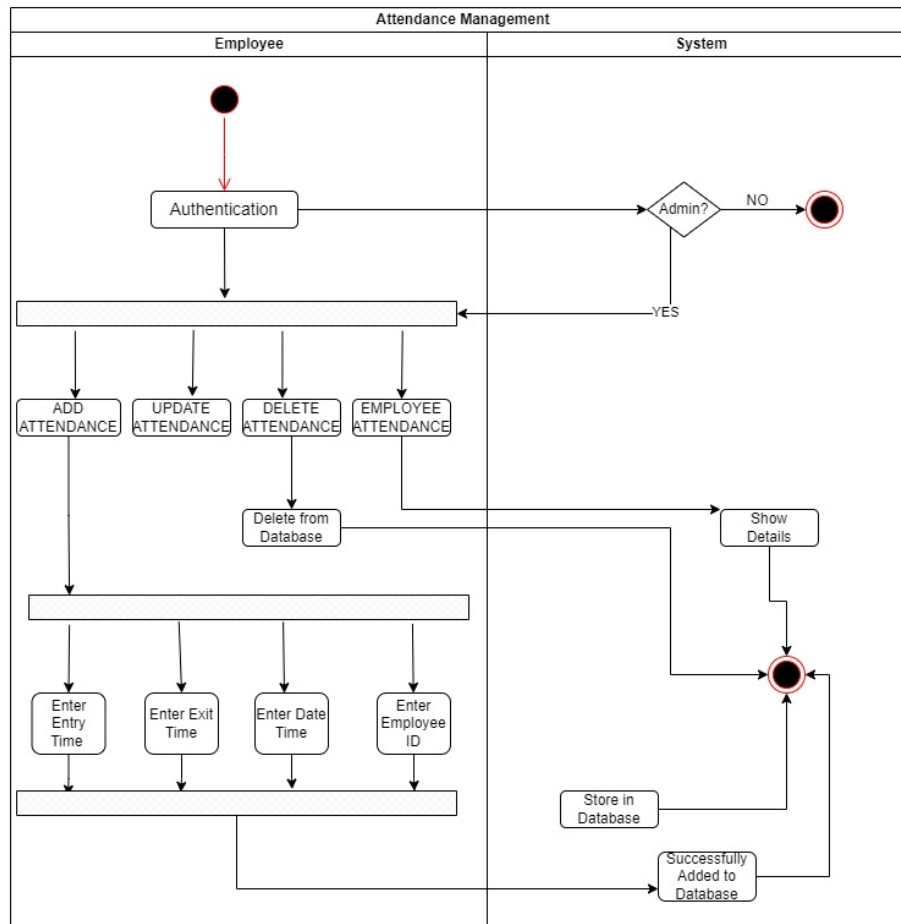
Class diagram:



Class Diagram

Swimlane diagrams:





Swimlane Diagram

