

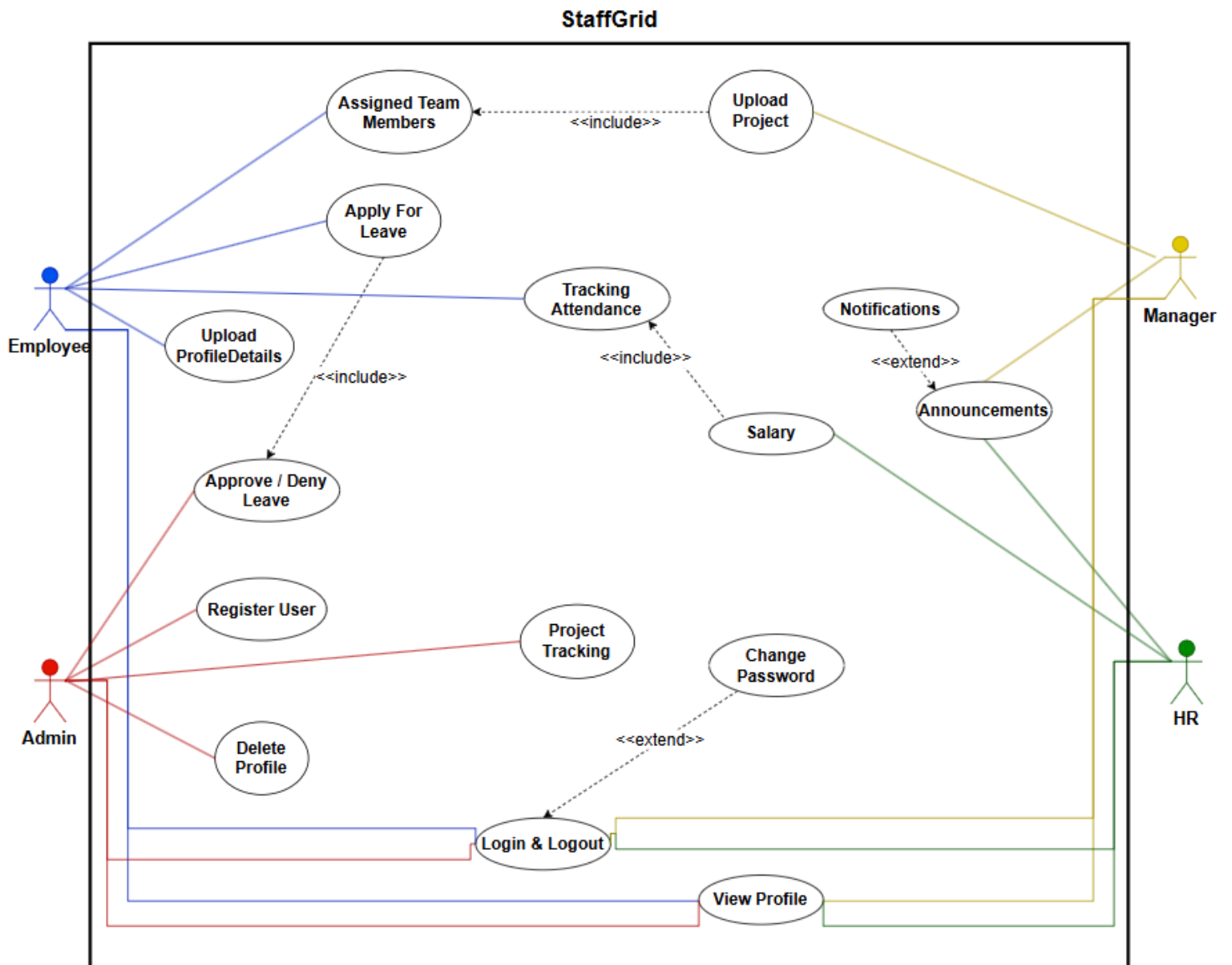


# **IT314: Software Engineering**

## **G17: StaffGrid**

### **Sprints with Class Diagram and Sequence Diagram**

## Use case Diagram:

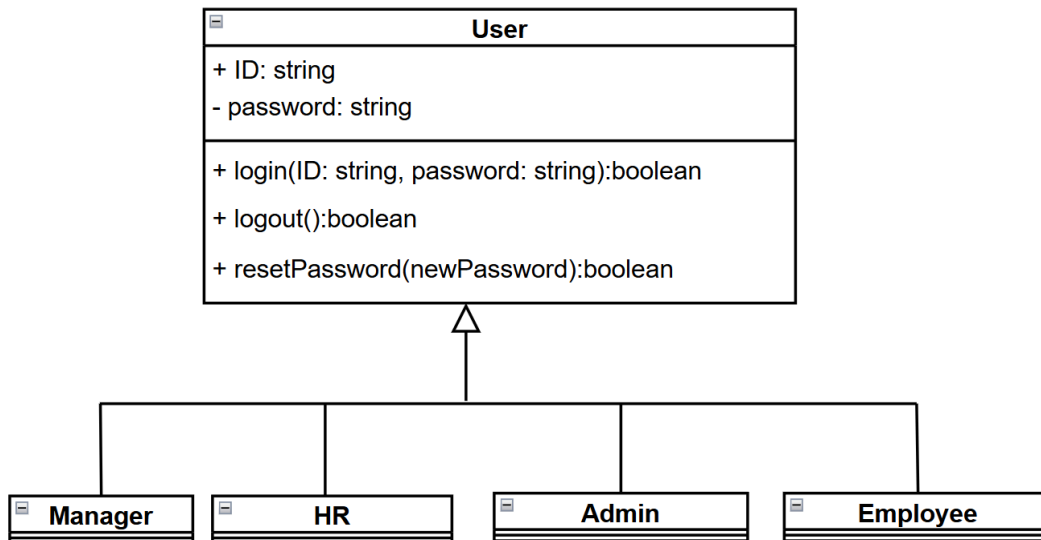


# SPRINTS:

## Sprint 1: Setup and Basic User Authentication

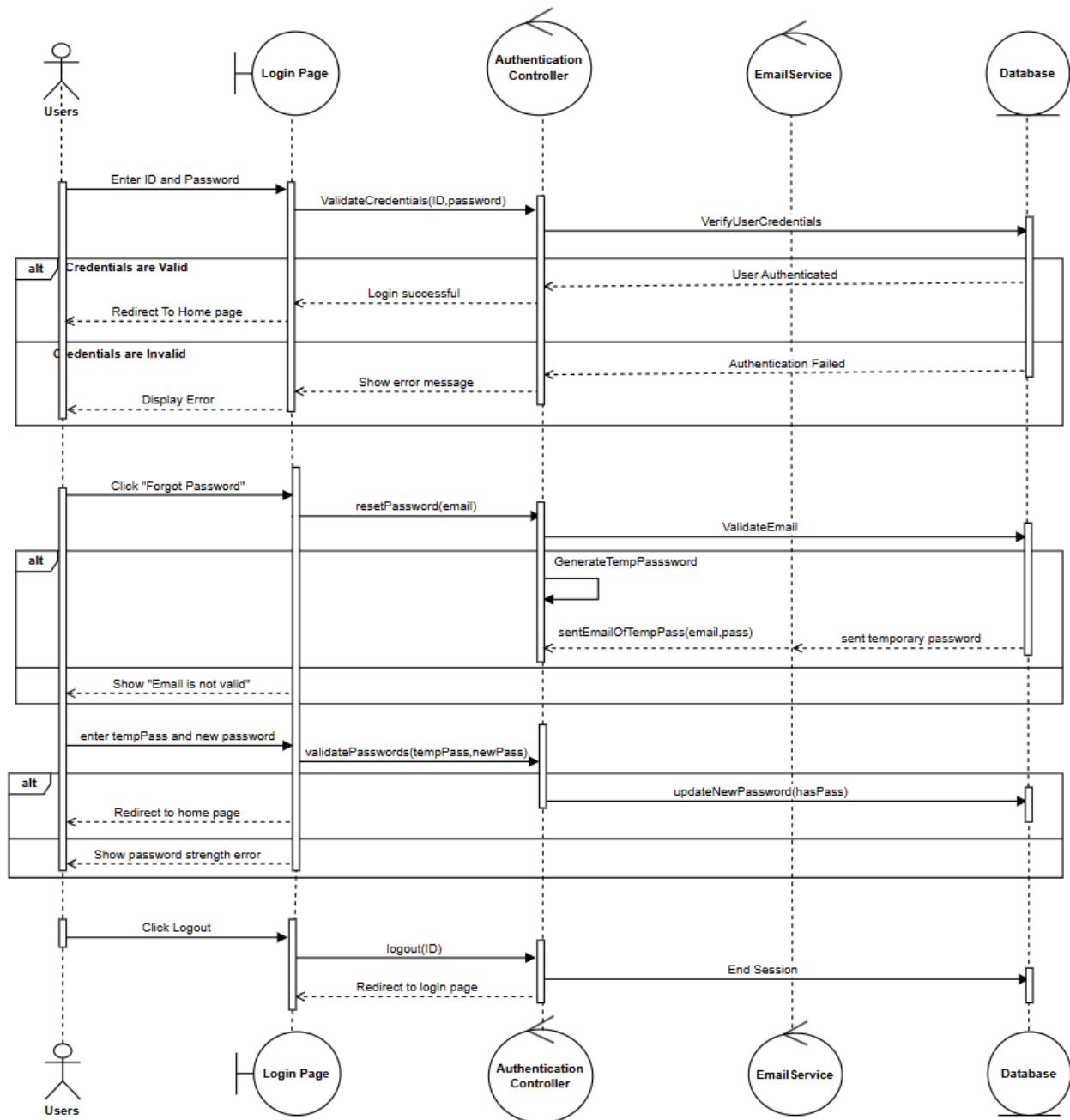
- **Objectives:**
  - Set up the project structure (frontend and backend)
  - Implement login/logout functionality for all users
  - Implement forgot password for all user
  - Ensure basic security (password hashing, encrypted connections)
- **Deliverables:**
  - Basic project structure with authentication flow complete

### Class diagram:



## Sequence diagram:

Login, Forgot password, logout



## Sprint 2: - Account Management, Profile Management

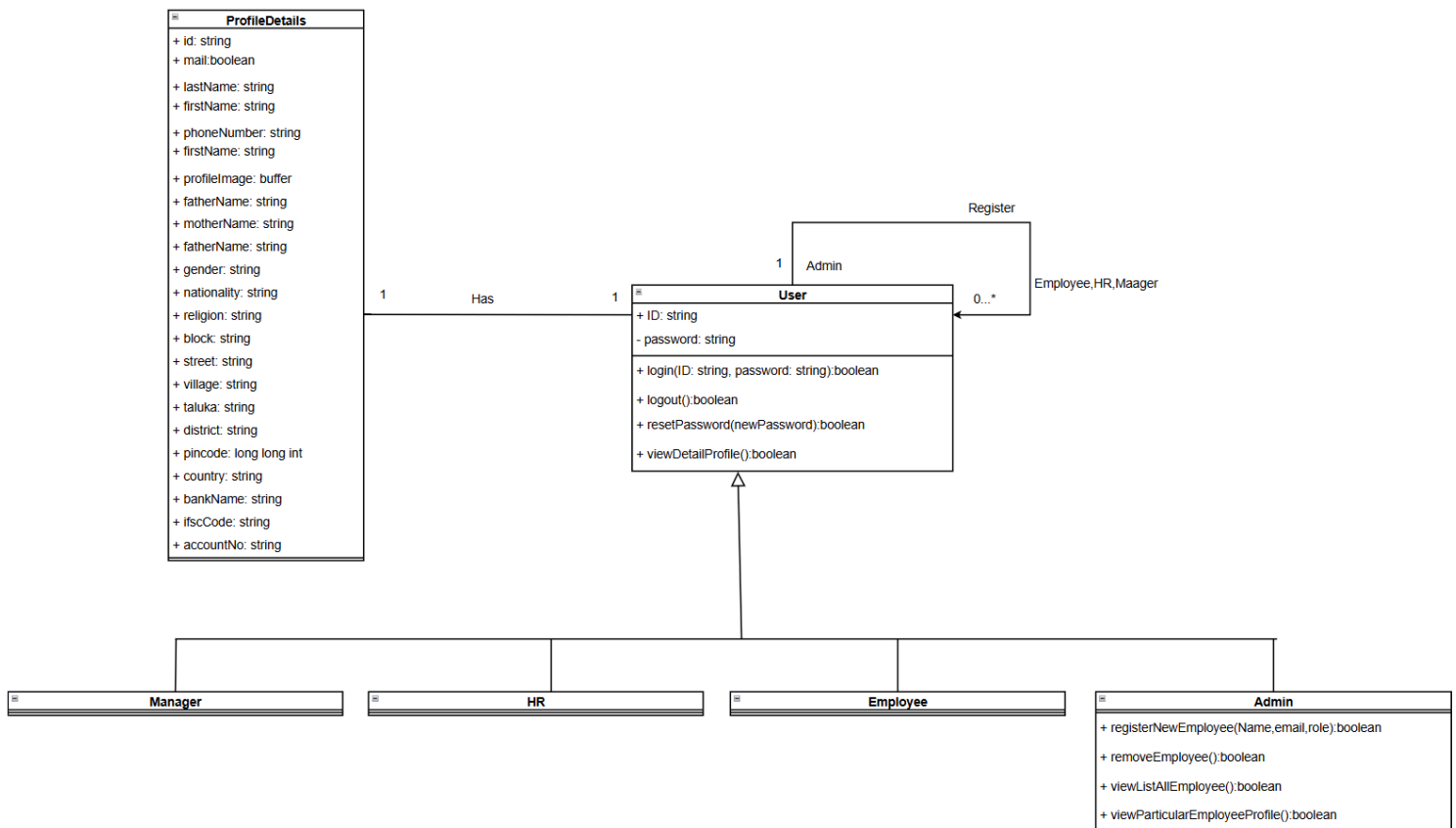
- **Objectives:**

- Implement "Create New Employee Account" feature for Admin
- Implement "Delete Employee Profile" feature for Admin
- Add Complete Details and profile image
- Ensure data validation for add and delete employee
- Create "View Profile" functionality for all roles (Admin, HR, Manager, Employee)
- Implement "add Profile Details" functionality for employees
- Implement "Show all list of employees that are working for the company" admin feature
- Ensure data validation and error handling for profile updates, confirmation for account deletion

- **Deliverables:**

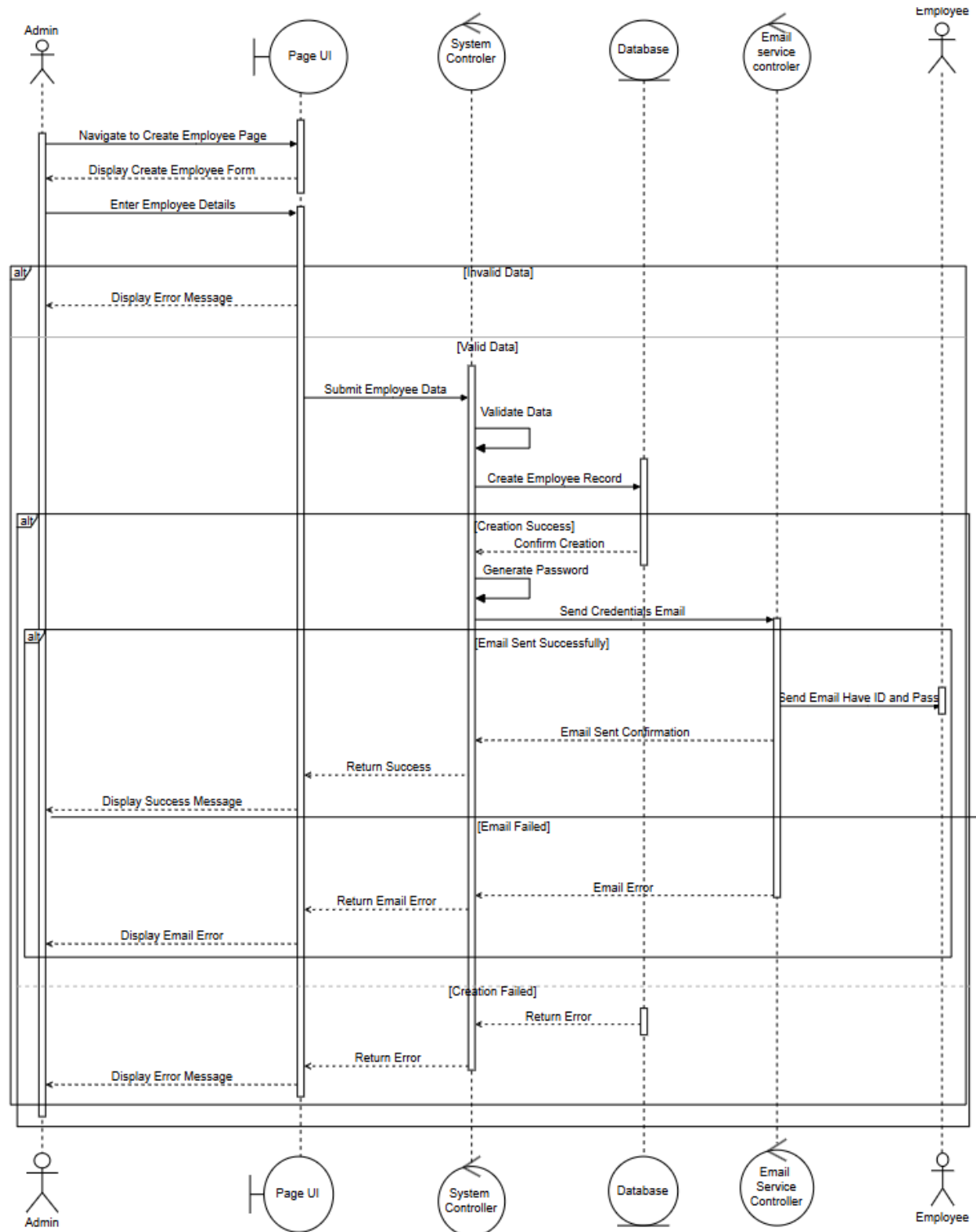
- Employee account creation and deletion fully functional
- Functional user profiles with update and view capabilities

### Class diagram:

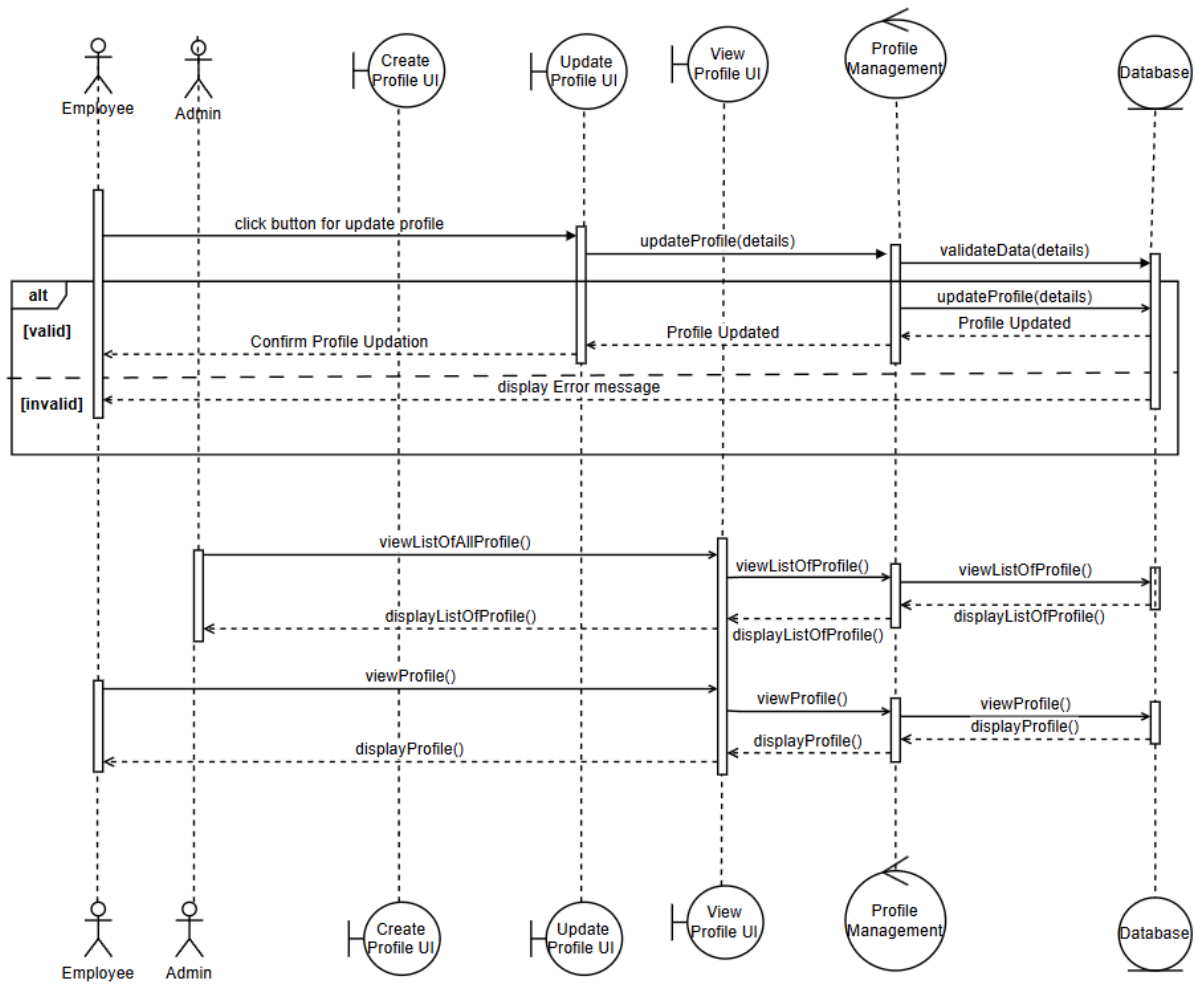


## Sequence diagram:

### Register, Delete Employee



## Add Detail Profile, View List of all employees

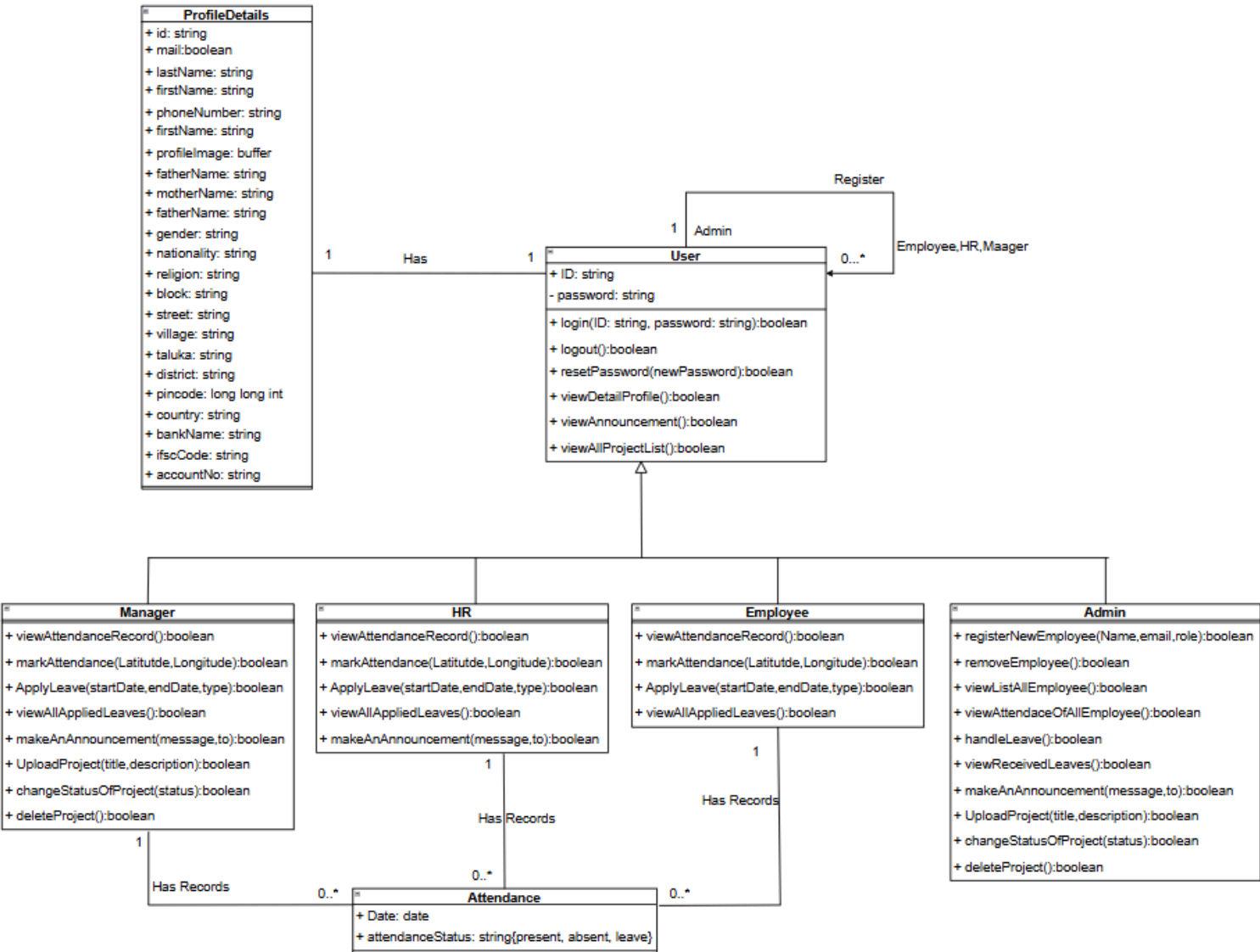


### **Sprint 3: Attendance Tracking and Mark**

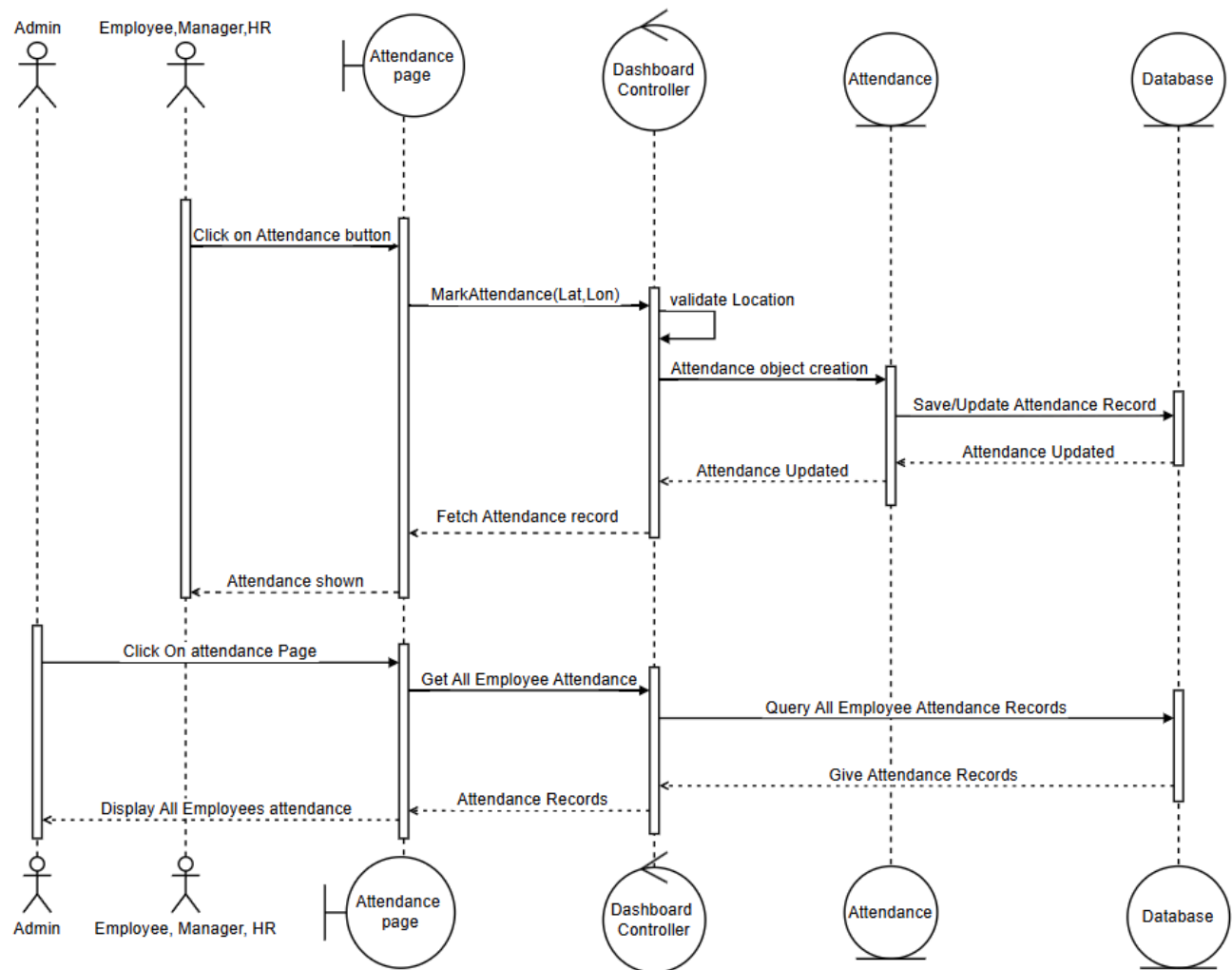
- **Objectives:**
  - Implement "View Attendance Records" for employees
  - Mark Attendance
  - Implement "view attendance of all employees" for admin
  - Ensure data display for daily, monthly, and yearly attendance records
- **Deliverables:**
  - Working attendance mark attendance, tracking and viewing feature for employees



Class diagram:



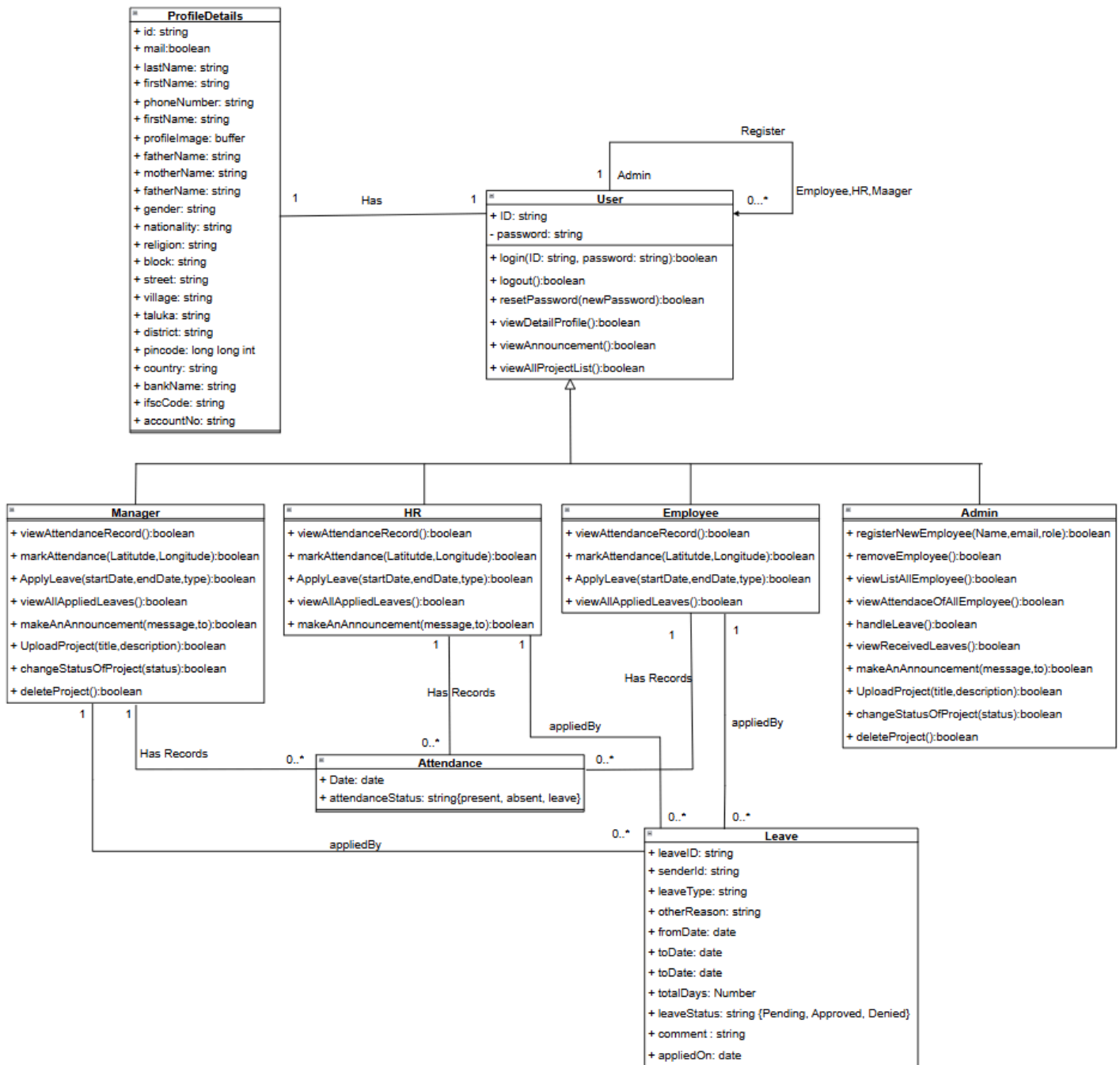
## Sequence diagram:



## **Sprint 4: Leave Management**

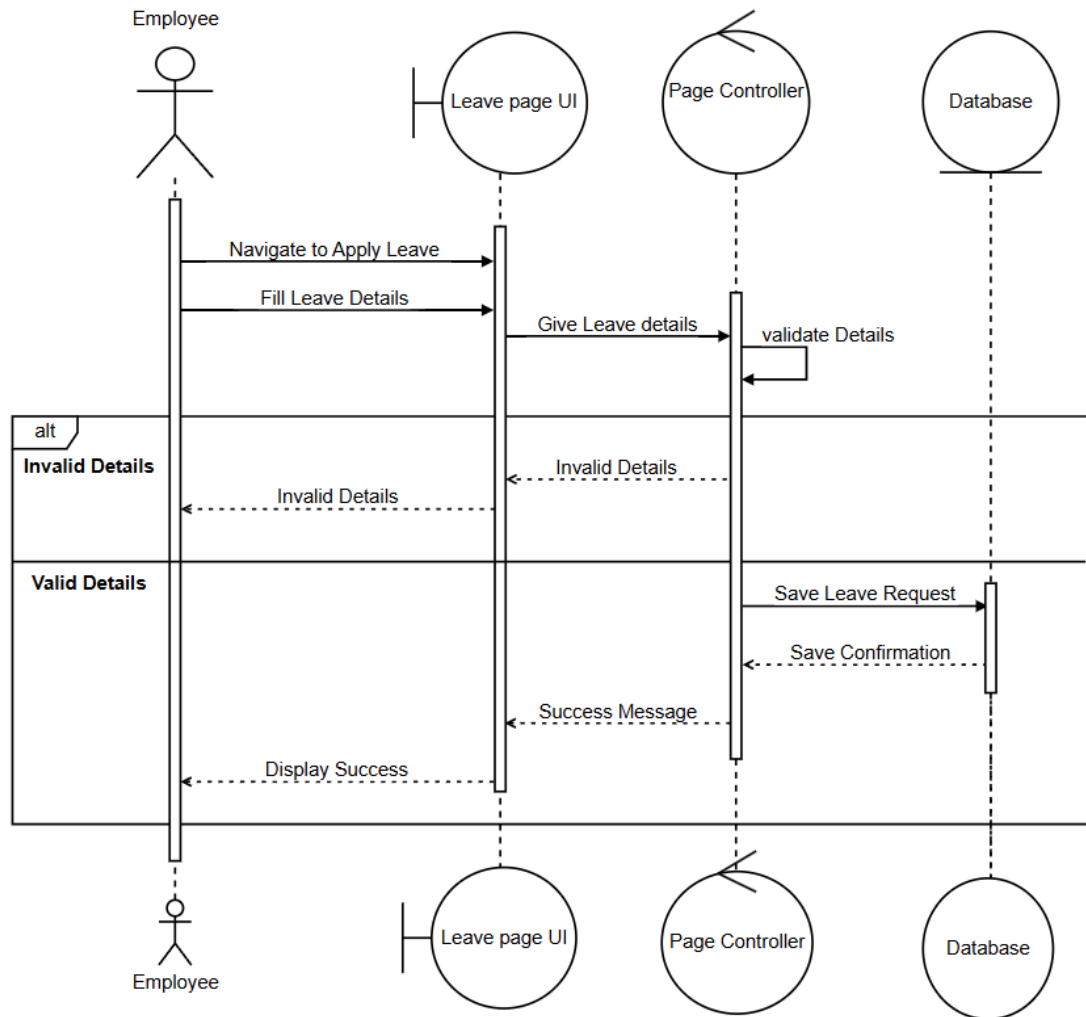
- **Objectives:**
  - Implement "Apply for Leave" for employees
  - Implement "Approve/Deny Leave Requests" for Managers
  - Integrate leave balances and automatic updates upon approval/denial
  - View Applied or Received Leaves
- **Deliverables:**
  - Functional leave management system for both employees and managers

## Class diagram:

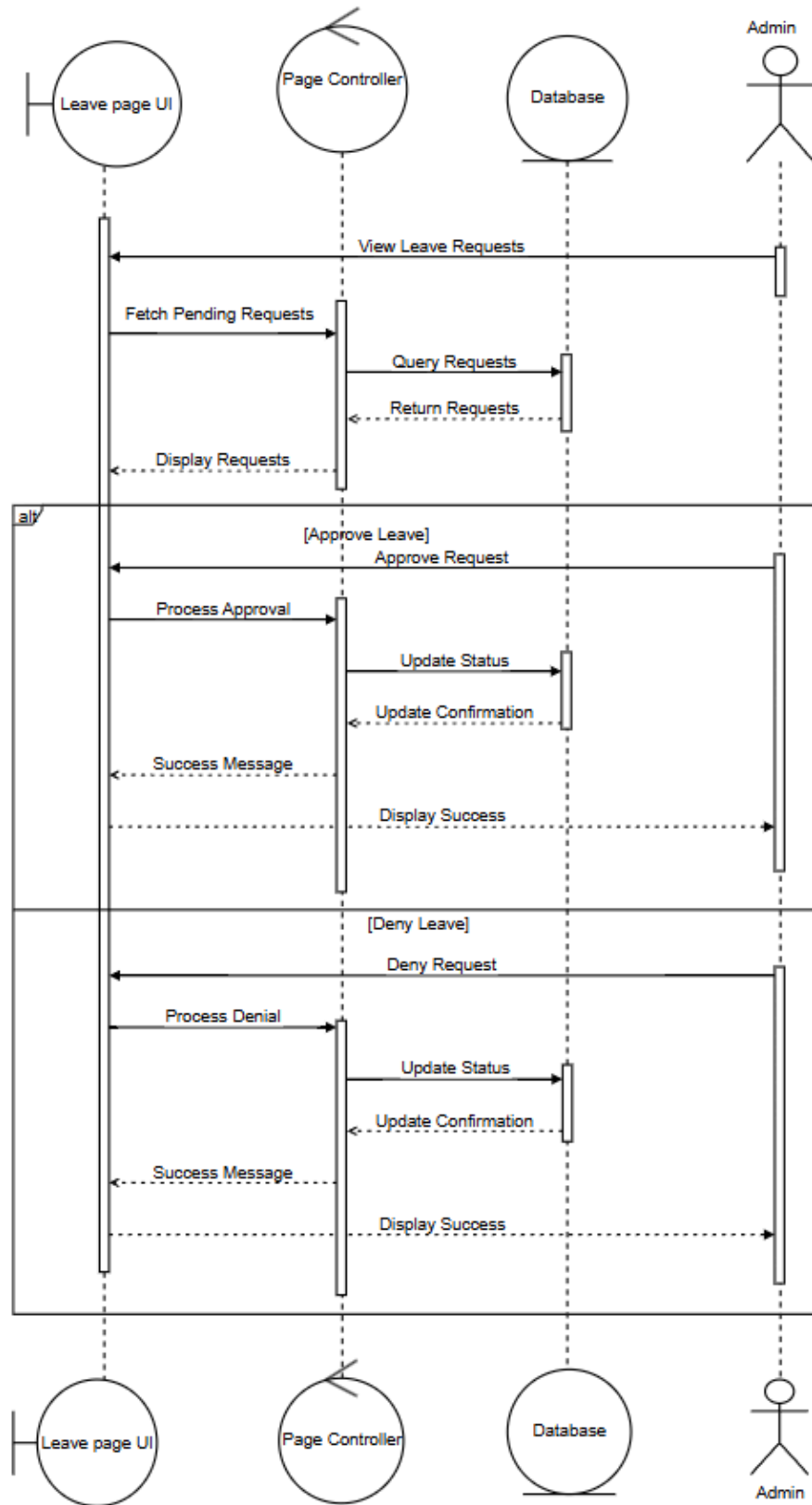


## Sequence diagram:

### Apply for leave



## Approve/Deny Leave



## **Sprint 5: Announcements**

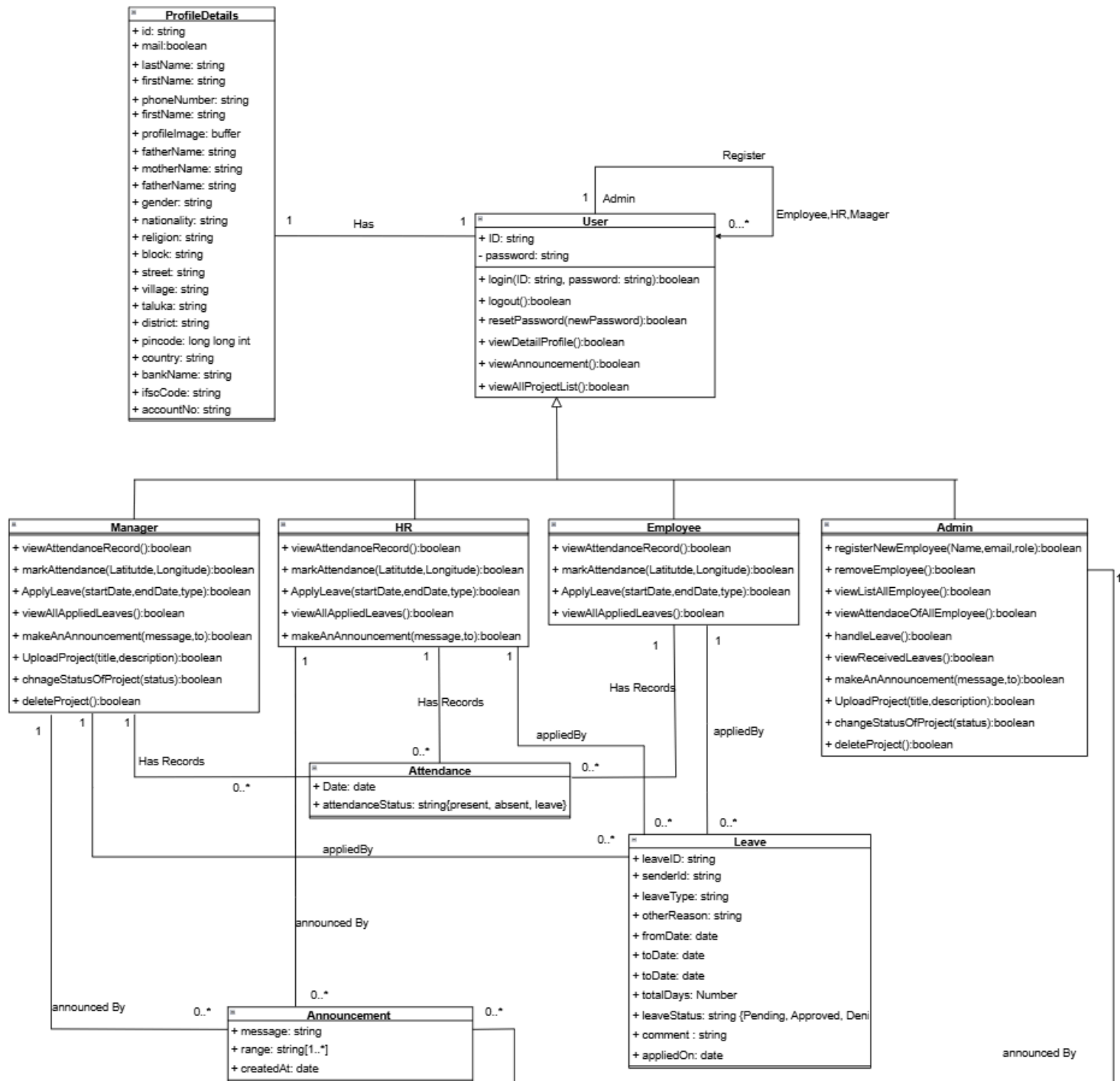
- **Objectives:**

- Implement "Send Announcements" for managers, HR, and admin for selected employees.
- Employees can "View Announcements" of all the announcements they get
- Admin has an add-on feature to send announcements to all employees

- **Deliverables:**

- Announcement systems working across all roles

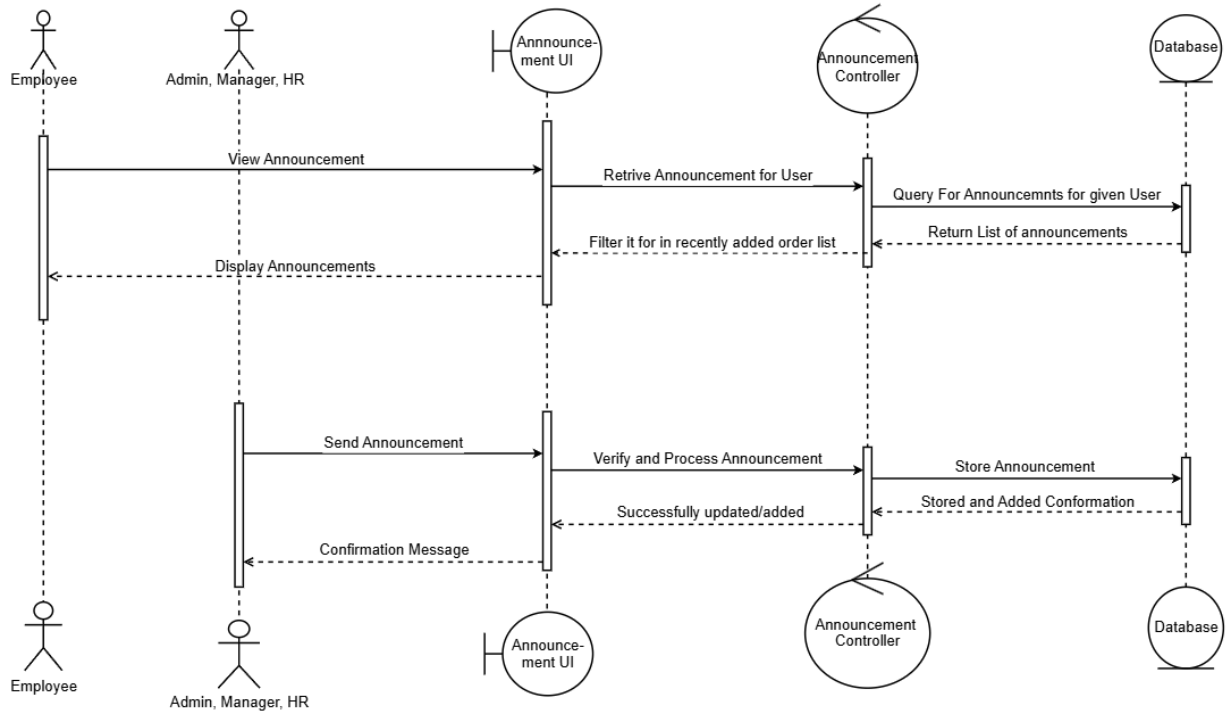
## Class diagram:





## Sequence diagram:

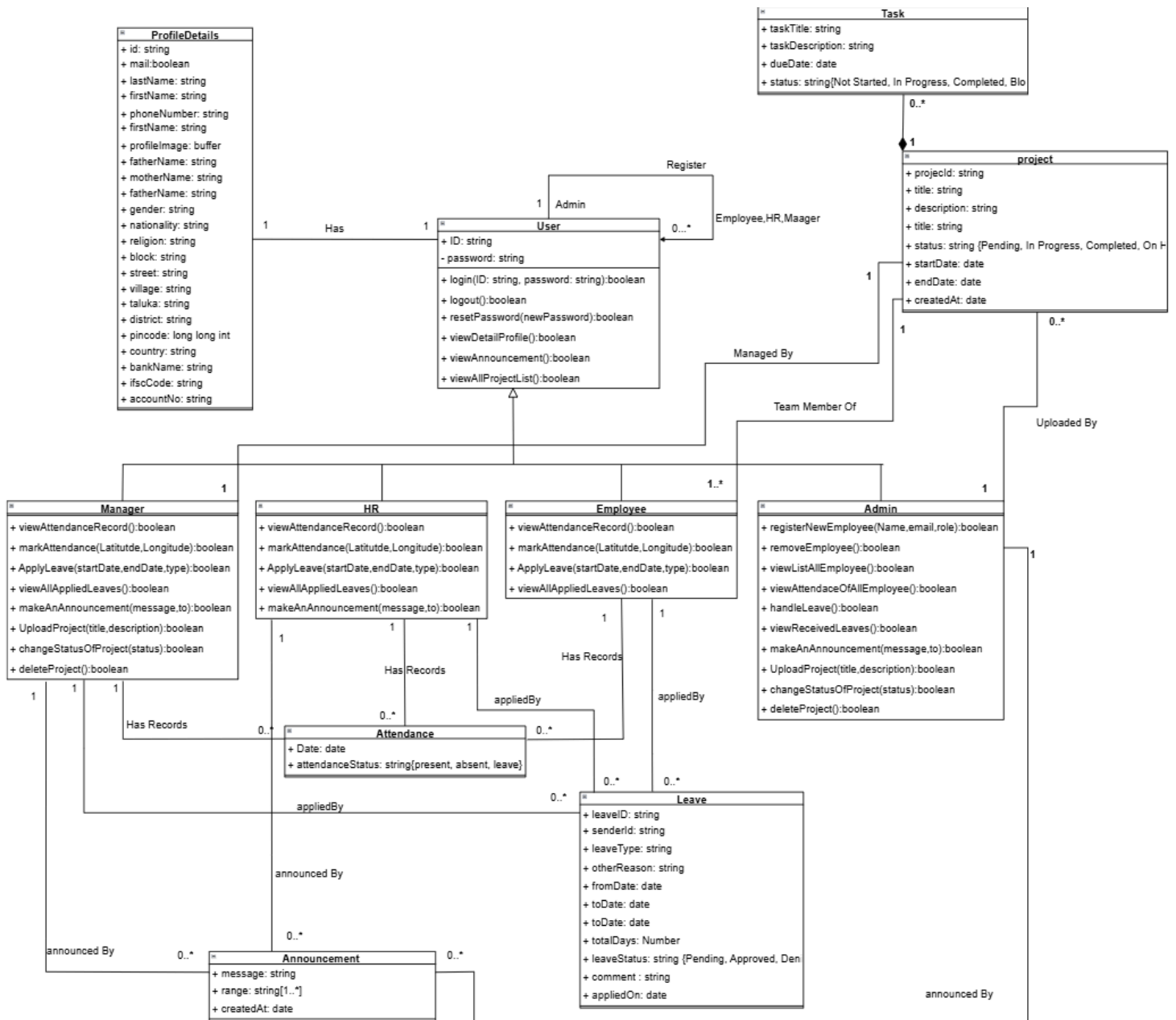
### Make and view an announcement



## **Sprint 6: Project management**

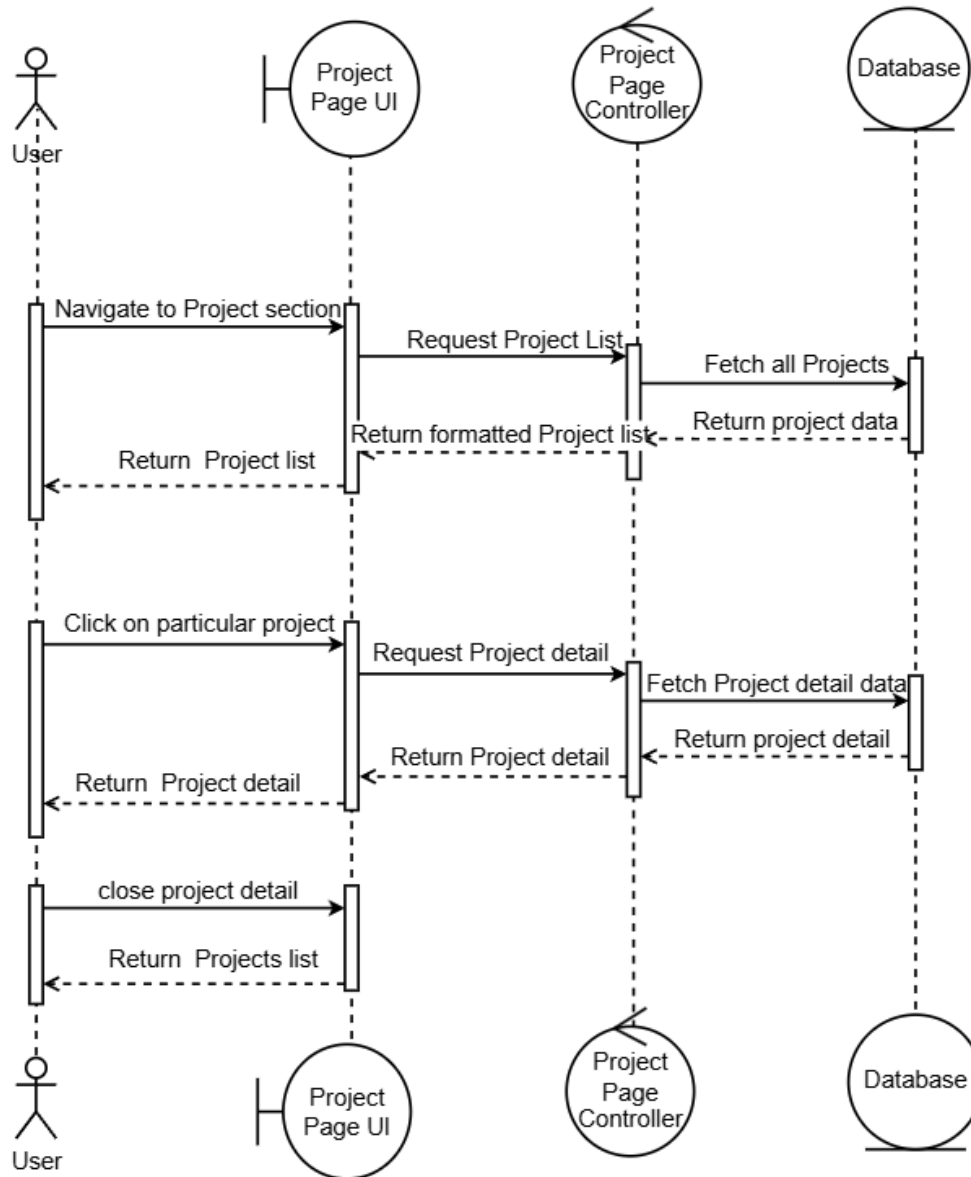
- **Objectives:**
  - Implement "Upload Project" for manager and admin.
  - Employee/admin/hr/manager can view all projects that are currently on the website
  - Managers/admin can "Change Project status"
  - Managers/admin can "Delete Existing Project"
- **Deliverables:**
  - Project managed by manager and admin and viewed by all roles

**Class diagram:**

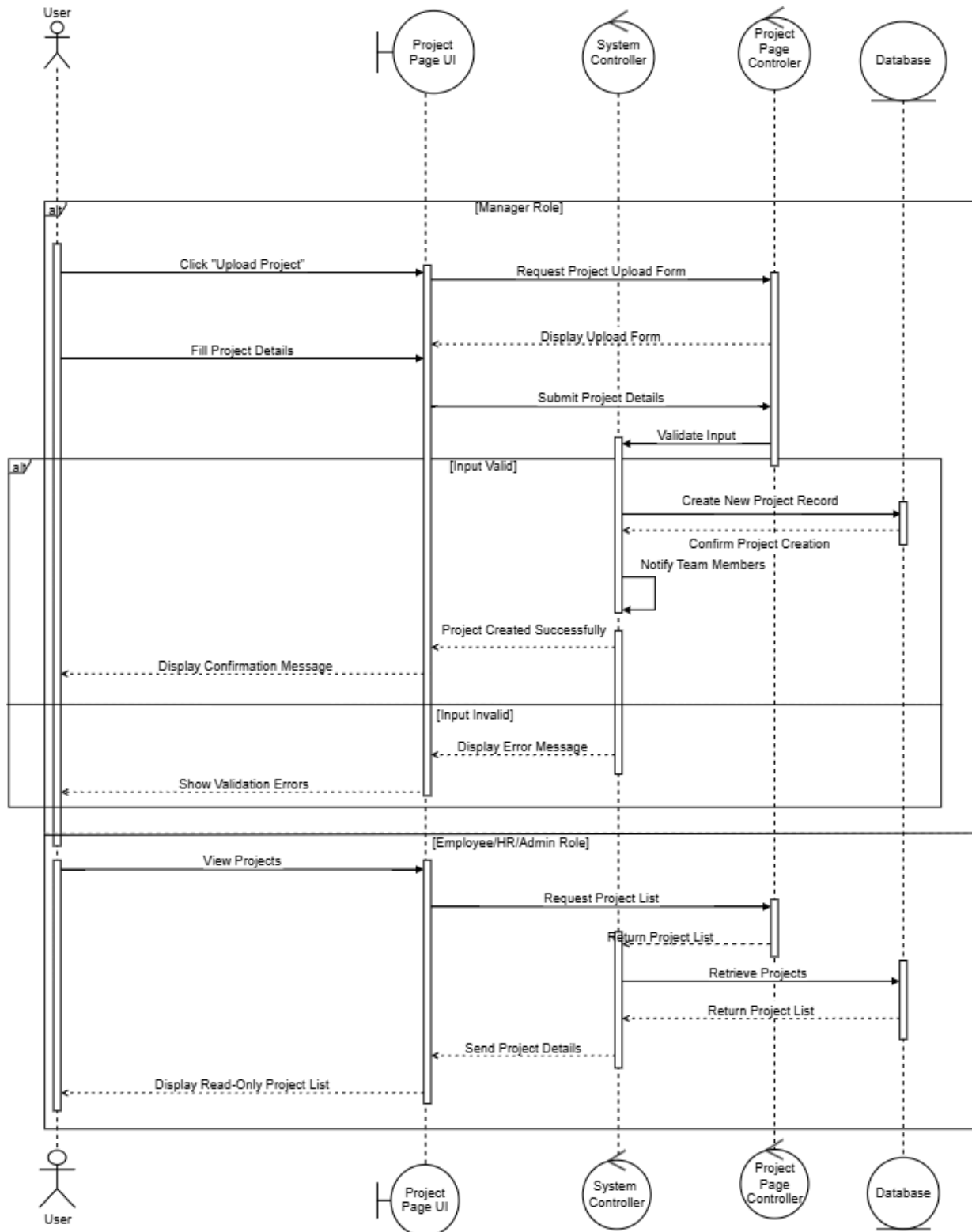


## Sequence diagram:

View List of all project



## Upload project



## Sprint 7: Salary Management

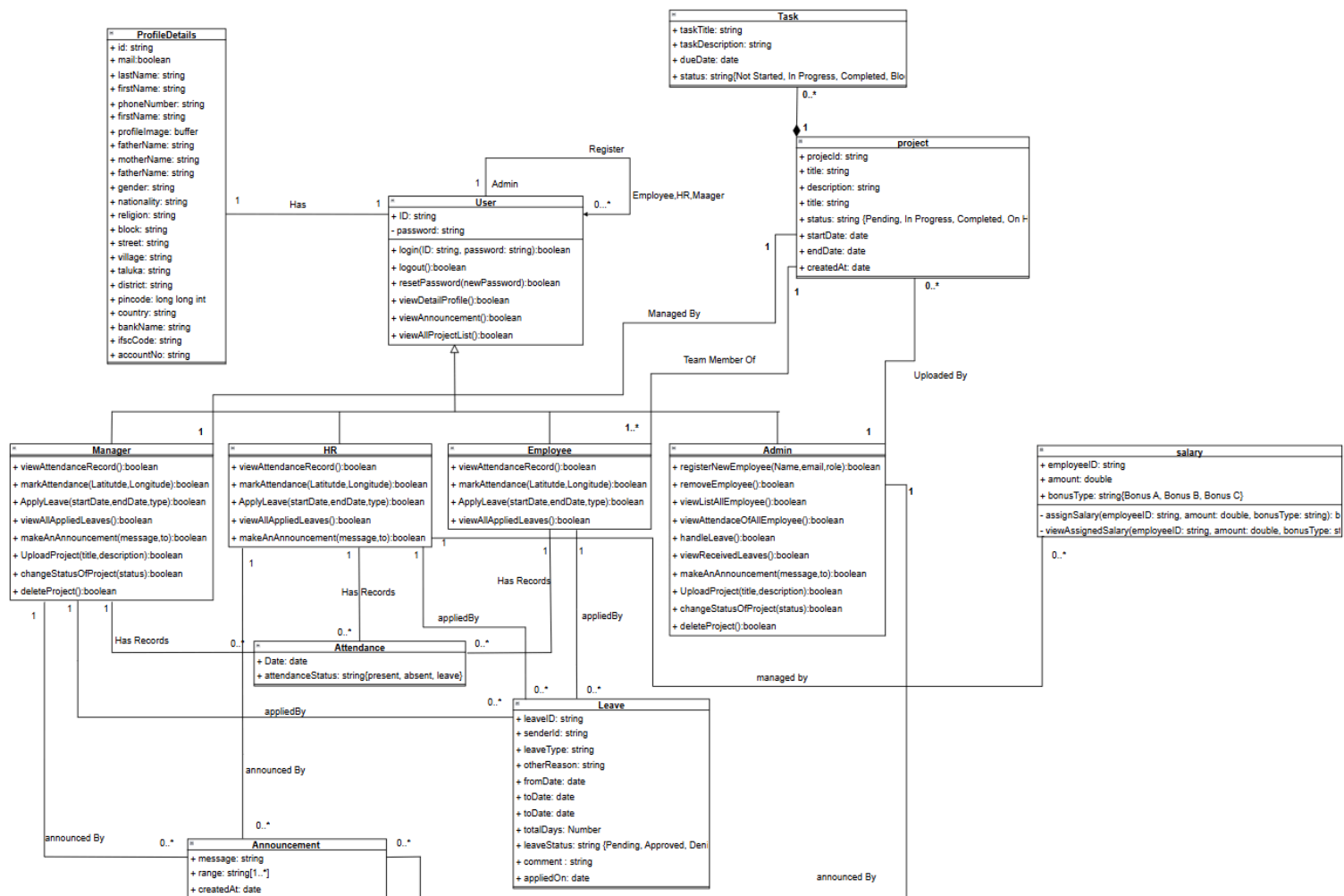
- **Objectives:**

- Implement a Payment Gateway for paying salaries to employees by HR.
- Store record of all past salary payment
- Salary and Bonus should be calculated from attendance and performance

- **Deliverables:**

- Salary paid by HR and Received by employee

### Class diagram:



Sequence Diagram:

