# **Use Case Diagram**

The Use Case Diagram shows the interactions between users and the system's functionalities.

### Actors:

- Admin
- Employee

### **Use Cases:**

- Create Account
- Log In
- Log Out
- Create Task
- Update Task Status
- Edit Task Description
- Assign Task
- Delete Task

## **Textual Representation:**

```
Admin

Create Account

Log In

Create Task

Create Task

Update Task Status

Edit Task Description

Assign Task

Delete Task

Employee

Create Account

Log In

Log Out

Create Task

Update Task Status

Edit Task Description
```

# **Sequence Diagram**

The Sequence Diagram shows the interaction between the user and the system for various operations.

## **Example: Create Task (Admin)**

```
Admin -> main.py: Choose "Create Task"

main.py -> login.py: Check if Admin is logged in

login.py -> main.py: Return authentication status

main.py -> tasks_logic.py: Call create_task()

tasks_logic.py -> objects.py: Instantiate Task object

objects.py -> tasks_logic.py: Return Task object

tasks_logic.py -> database: Save Task

tasks_logic.py -> main.py: Return success message

main.py -> Admin: Display success message
```

# **Class Diagram**

The Class Diagram shows the structure of the system in terms of classes and relationships.

#### Classes:

- User
- Attributes: username, password, role
- Methods: create\_account(), log\_in(), log\_out()

#### - Task

- Attributes: title, description, status, assigned to
- Methods: create\_task(), update\_status(), edit\_description()

## **Textual Representation:**

```
Class User
  - username: str
  - password: str
  - role: str
  + create_account()
 + log_in()
 + log_out()
Class Task
 - title: str
 - description: str
 - status: str
 - assigned_to: User
 + create_task()
 + update_status()
 + edit_description()
User "1" <-- "0..*" Task
```

# **User Access Table Diagram**

The User Access Table Diagram shows the access control for different functionalities based on user roles.

### **Textual Representation:**

These textual representations should give a clear overview of the system's structure and functionalities.