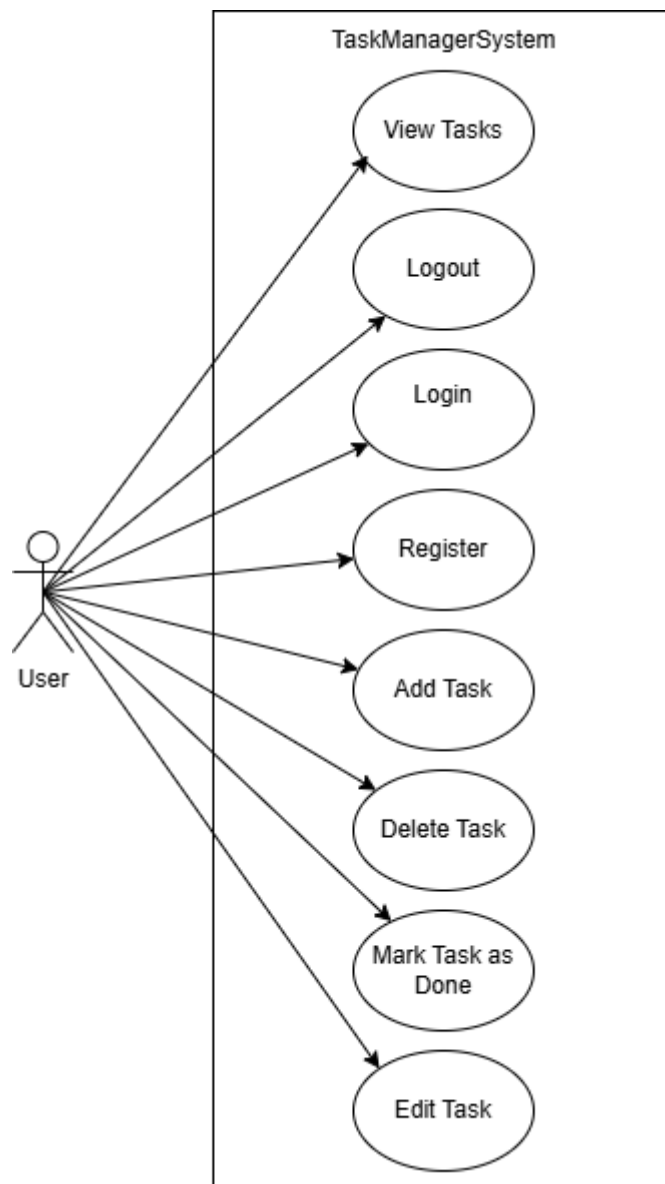


Task Manager System - Diagrams Overview

1. Use Case Diagram:

The **Use Case Diagram** illustrates the interaction between the **User** and the system. The purpose of this diagram is to show how users interact with the Task Manager system. Key use cases include **User Registration**, **Task Creation**, and **Task Completion**. The user can perform multiple actions such as adding, editing, or removing tasks.

- **Actors:**
 - **User:** The person interacting with the system to manage tasks.
- **Use Cases:**
 - **Register:** Allows the user to create an account.
 - **Login:** The user logs into the system after registering.
 - **Add Task:** The user can add a new task to the system.
 - **Update Task:** The user can update an existing task.
 - **Delete Task:** The user can delete a task from the list.
 - **Complete Task:** Marks a task as complete.

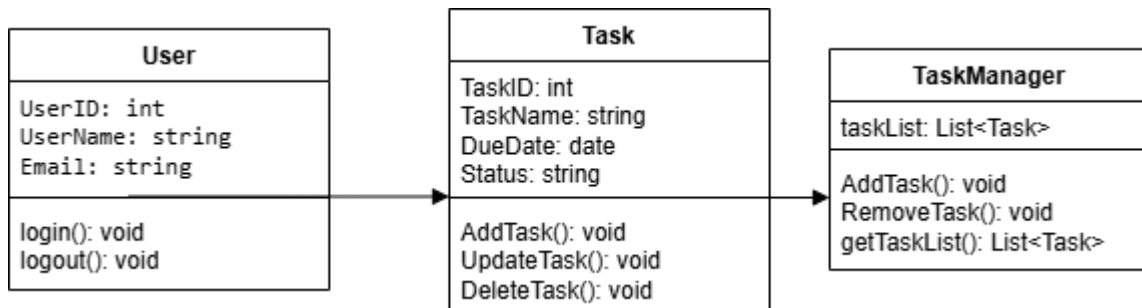


2. UML Class Diagram:

The **UML Class Diagram** represents the structure of the system by defining the **classes** involved, their **attributes**, and their **methods**. This diagram helps in understanding the internal structure of the system. It includes the following classes:

- **User Class:**
 - **Attributes:** username, password
 - **Methods:** register(), login()
- **Task Class:**
 - **Attributes:** taskName, dueDate, status
 - **Methods:** addTask(), editTask(), deleteTask(), completeTask()

These classes and their methods define the core functionality of the Task Manager system.



3. Activity Diagram:

The **Activity Diagram** shows the workflow of the system, particularly the flow of tasks when a user interacts with the system. It outlines the sequence of actions that the system follows for **task creation, updating, and deletion**. The diagram starts with the user logging in and ends with a task being either completed or deleted.

Key activities include:

- **User Login:** The system verifies user credentials.
- **Add Task:** The user adds a new task.
- **Update Task:** The user updates an existing task.
- **Delete Task:** The user deletes a task.
- **Complete Task:** The user marks a task as complete.

The flow of these actions is captured to show the sequence and decision-making process.

