Use Cases and Sequence Diagrams

Use Case 1: User Login

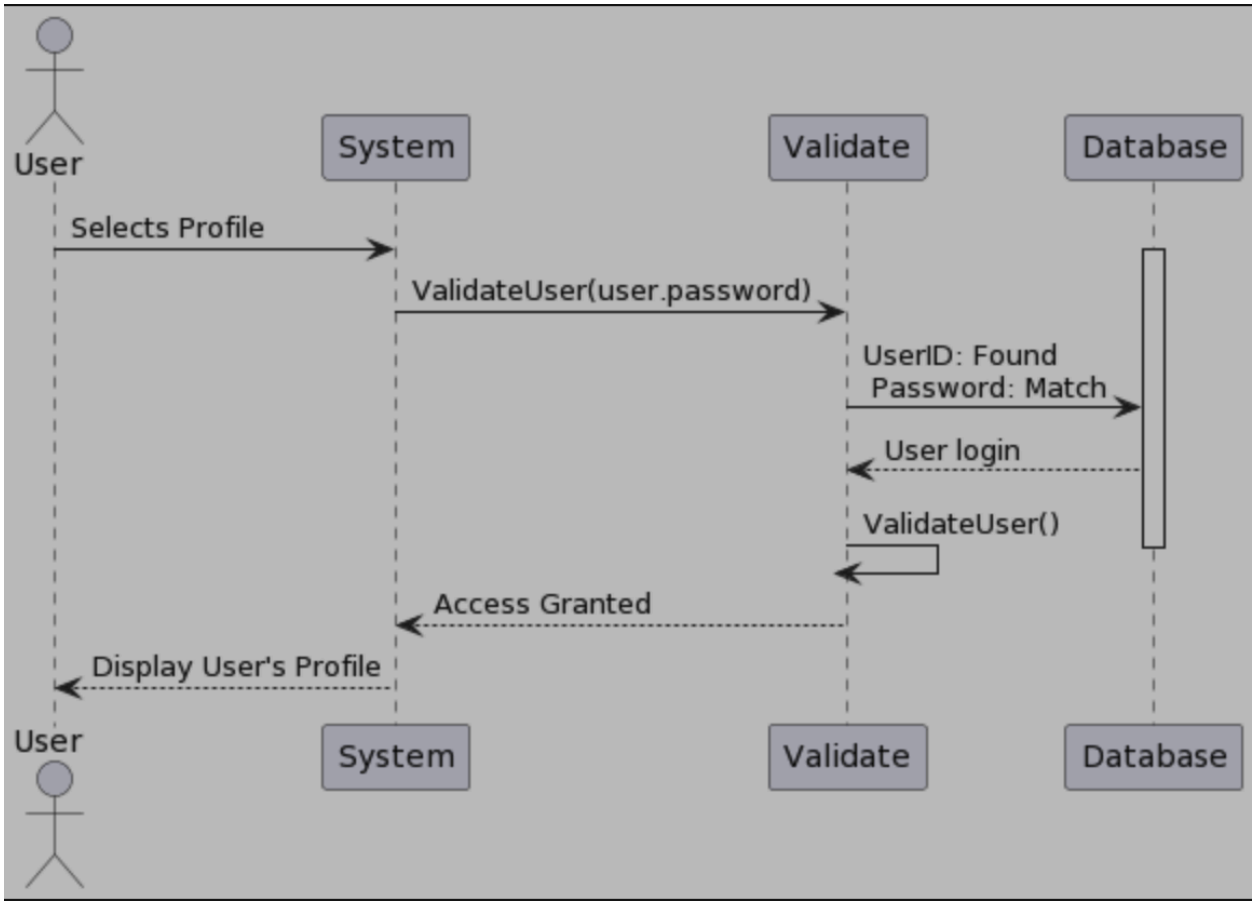
Actors: User, System, Database

Description: The user wants to log in to the to-do list system to access their tasks.

Interaction:
The user opens the to-do list application.
The system presents the login screen to the user.
The user enters their username and password.
The system verifies the user's credentials with the database.
If the credentials are valid, the system grants access to the user's tasks.
If the credentials are invalid, the system displays an error message.

Additional Information:
The system should enforce security measures such as encryption for user authentication.
Upon successful login, the system may redirect the user to their task list dashboard.

Sequence Diagram:

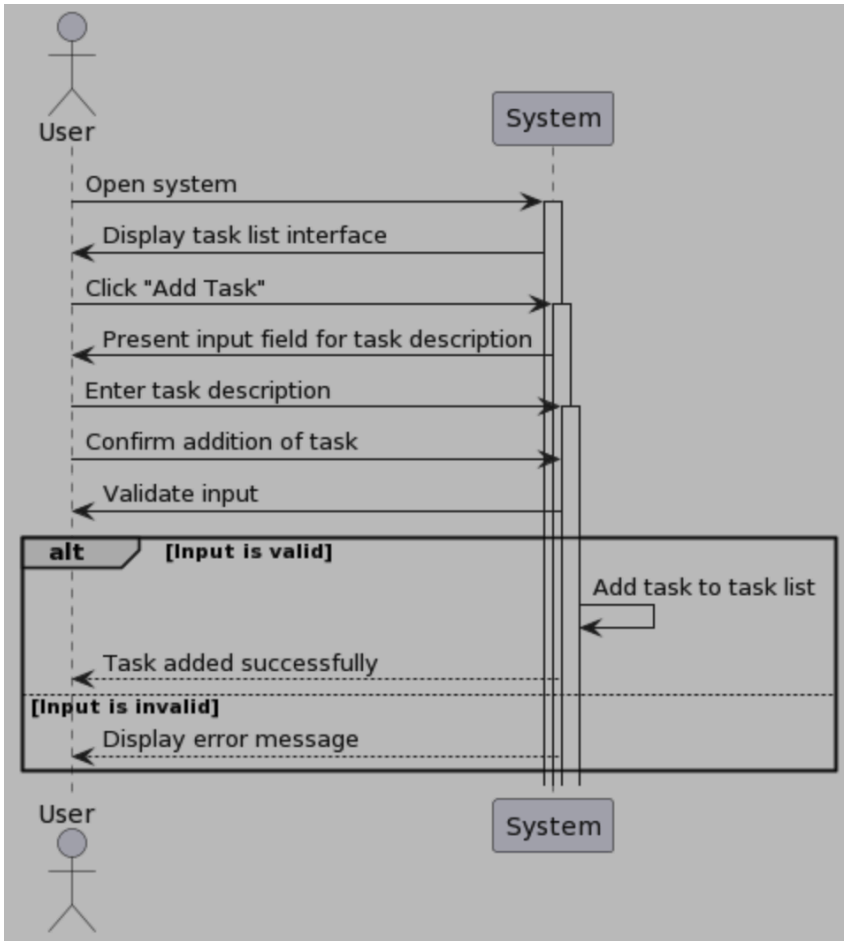


Use Case 2: Display Task List

Actors: User, System

Description: The user wants to view their task list after successfully logging in.

Interaction:
The user opens the to-do list application.
The system retrieves the user's task list from the database.
The system displays the task list interface to the user.
The user can view all tasks in their task list, including details such as title, description, due date, and priority.

Additional Information:
The system should ensure that only authenticated users can access their task lists.
The task list interface should be user-friendly and provide easy navigation and interaction options for the user.

Sequence Diagram: