



Balqa Applied University – Center  
IT – Software Engineer Department

# SYNCHAND

## WEB APPLICATION

Smart and modular way to manage your  
projects in synchronous procedures.







# *Special Thanks message*

**Special thanks to Dr. Sawsan Abu-Taleb for her  
exceptional supervision and the invaluable  
guidelines provided throughout the Synchand  
project.**

# About Us



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*Sync Hand*

*Synchronous* ← *Hand*

This project name means the project vision, where we mean synchronous operations that are provided through executing the project, also based on collaborations between the team members on the one hand!

# Project Features

- **Project Tracking:** This enables users to track the status and progress of their personal and team projects in real-time.
- **AI Assistance:** Integrates artificial intelligence to assist in task management, workflow optimization, and decision-making.
- **User-Friendly Dashboard:** Designed with a modern UI to ensure usability, accessibility, and seamless navigation as we learn in GUI and HCI
- **Progress Monitoring:** Offers a structured approach to tracking project milestones, ensuring users stay informed about their progress.



# Technologies and techniques

01

Next JS

02

Tailwind

03

MongoDB

04

MCV

05

Draw IO

06

Gemini API

07

Penetration  
Testing

08

Clerk

09

PWA





# Software Engineering Techniques

## In SyncHand Project

### Requirements

This refers to gathering and defining what a software system should do.

### Activity Diagram

Represents the workflow of a system, showing different activities and decisions in a process

### Use Case Diagram

A visual representation of how users (actors) interact with a system

### Robustness Diagram

Provides workflow of the system It ensures logical consistency between components

### Sequence Diagram

Displays how objects interact in a specific sequence, focusing on the order of messages exchanged between components over time.

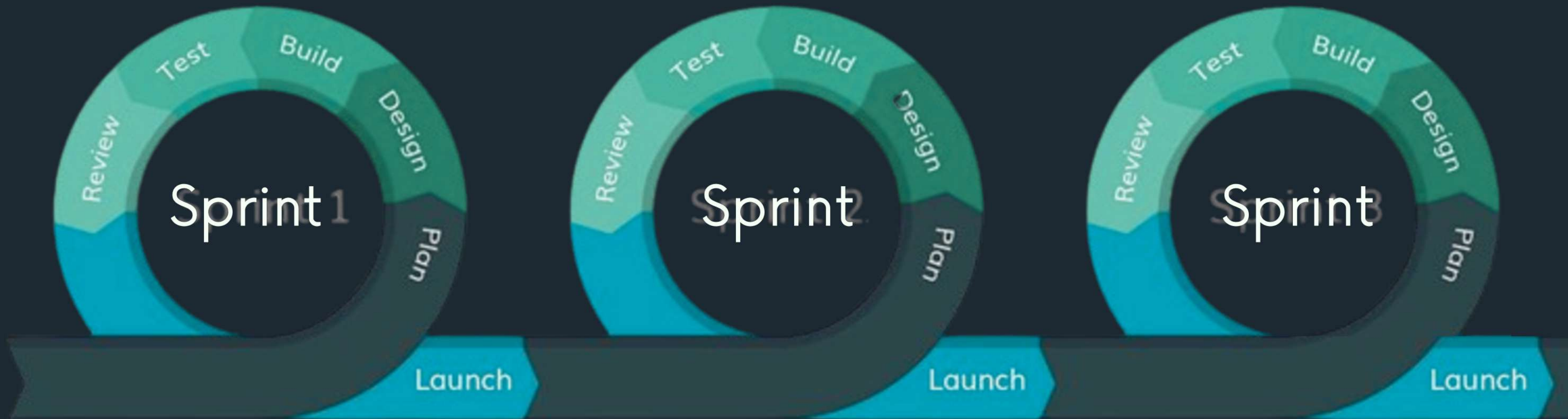
### Component Diagram

Represents the physical structure of a system, and their dependencies.



SDLC - Agail - Scrum

# *Software Engineering Approach* That used in SyncHand Project





# Software Requirements Specifications

A technique that used in requirements:

- Role-playing [ as a gathering ]
- process-oriented [ as implementing principle ]

- 1.The system shall allow users to log in securely using their credentials.
- 2.The system shall allow users to log out securely from their accounts.
- 3.The system shall allow users to create new projects, specifying relevant details.
- 4.The system shall allow users to update existing projects, modifying project details as needed.
- 5.The system shall allow users to delete projects, permanently removing them from the dashboard.



# Software Requirements Specifications

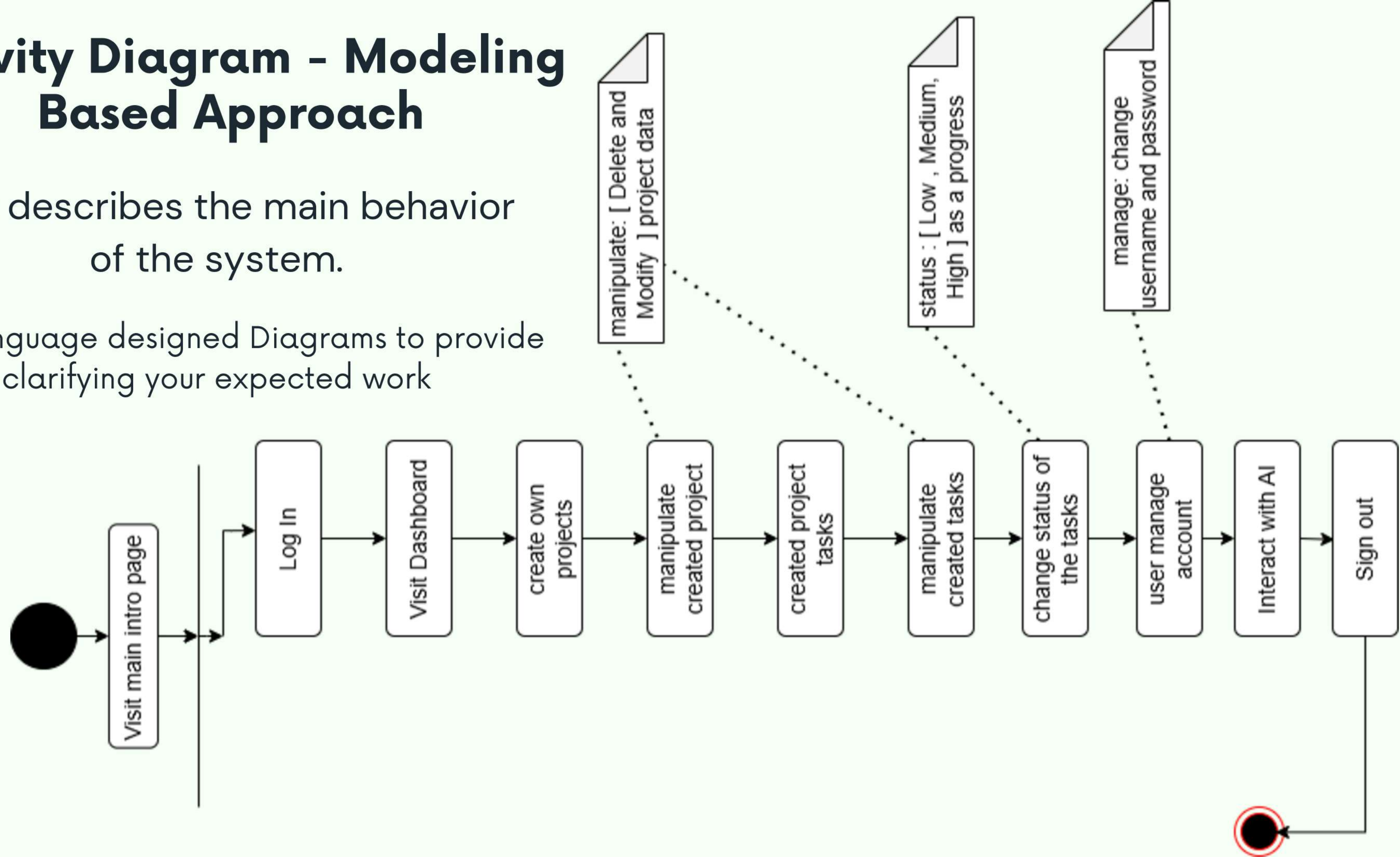
1. The system shall provide users with a real-time progress tracker, displaying project completion as a percentage (0% to 100%).
2. The system shall provide a dedicated page for project status, categorizing projects as "Completed" or "In Progress".
3. The system shall provide a dedicated AI assistance page, offering intelligent suggestions to help users build, improve, and optimize their projects.
4. The system shall allow users to submit feedback on their experience, helping enhance the platform's usability and effectiveness.



# Activity Diagram - Modeling Based Approach

That describes the main behavior of the system.

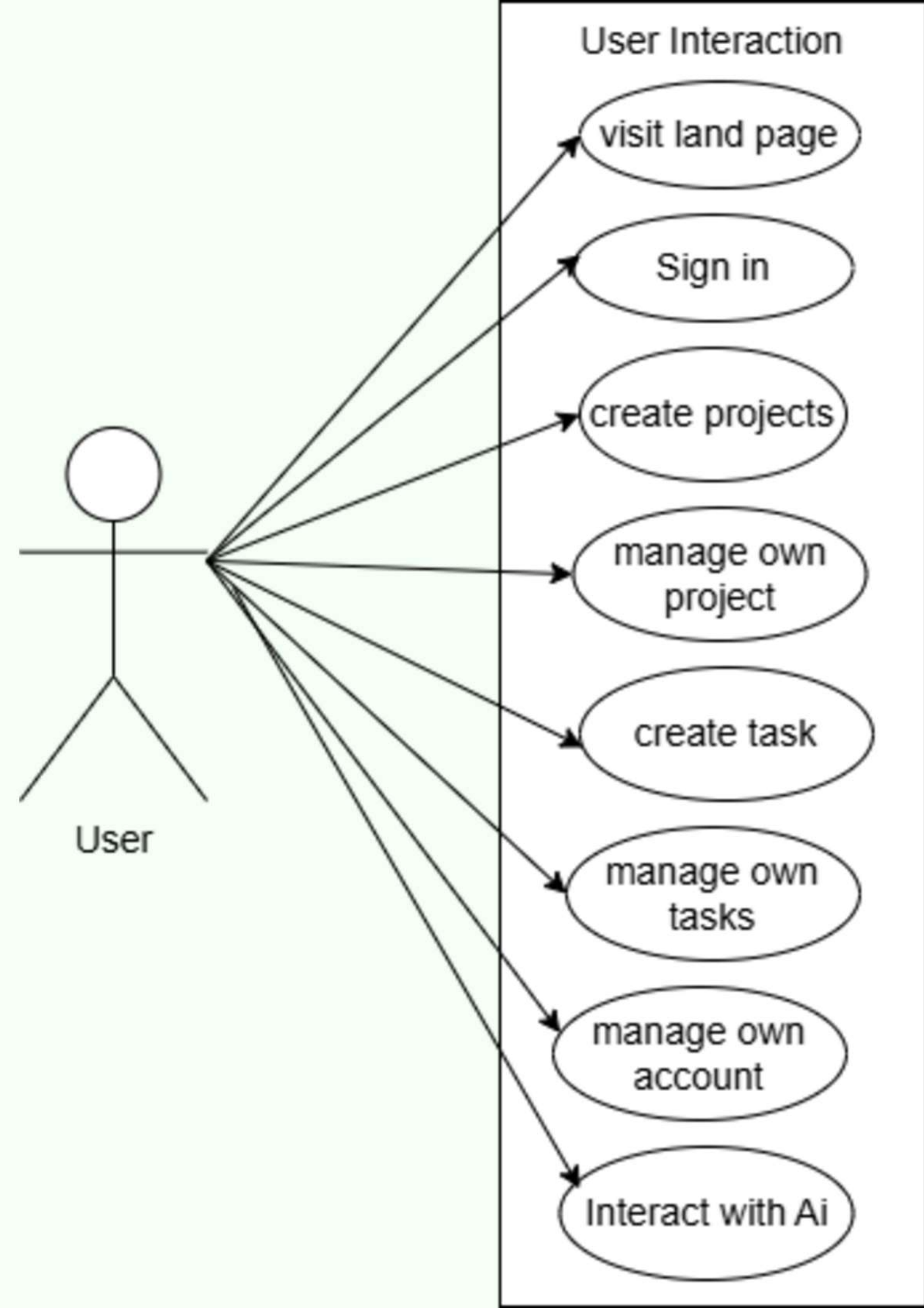
OCIL language designed Diagrams to provide clarifying your expected work



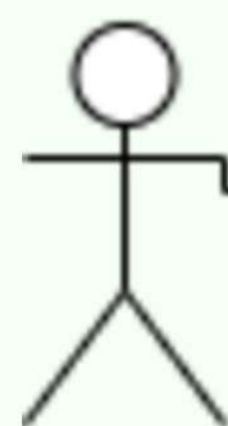


# Main Usecase

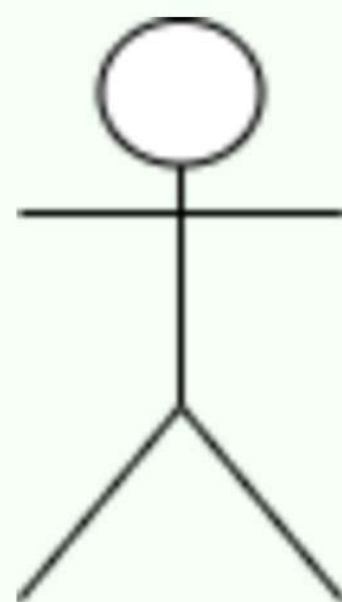
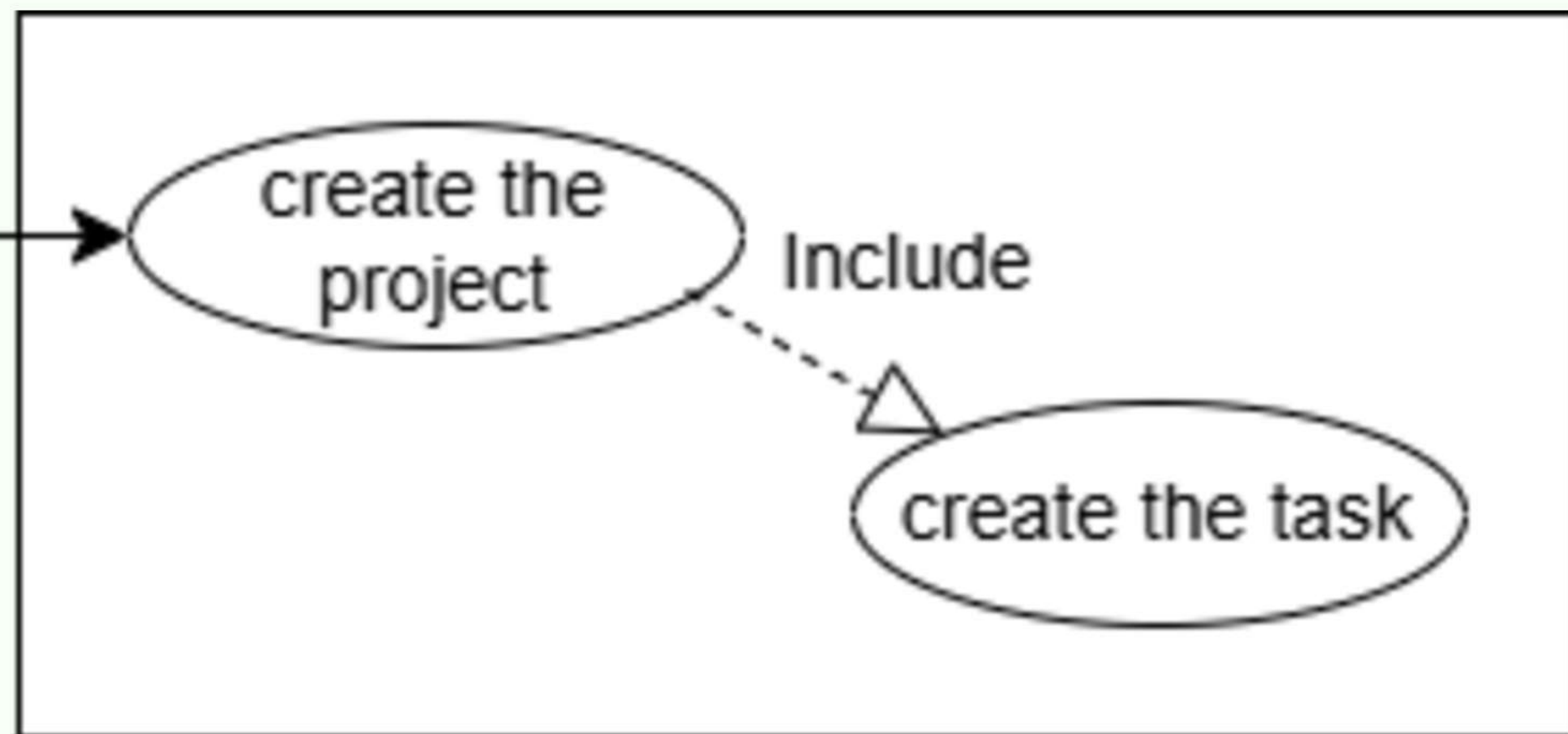
That describes the user interaction with the system.



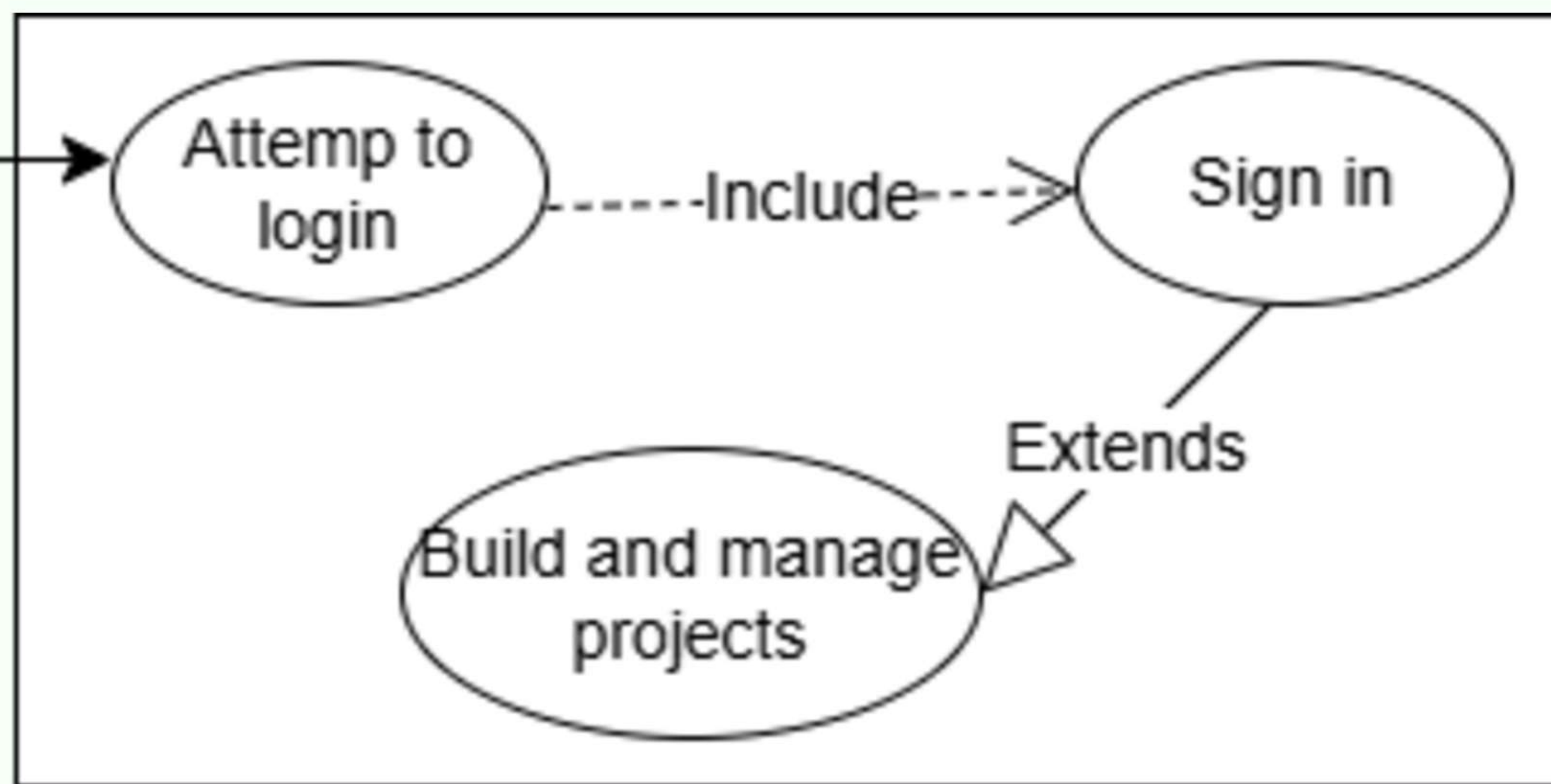




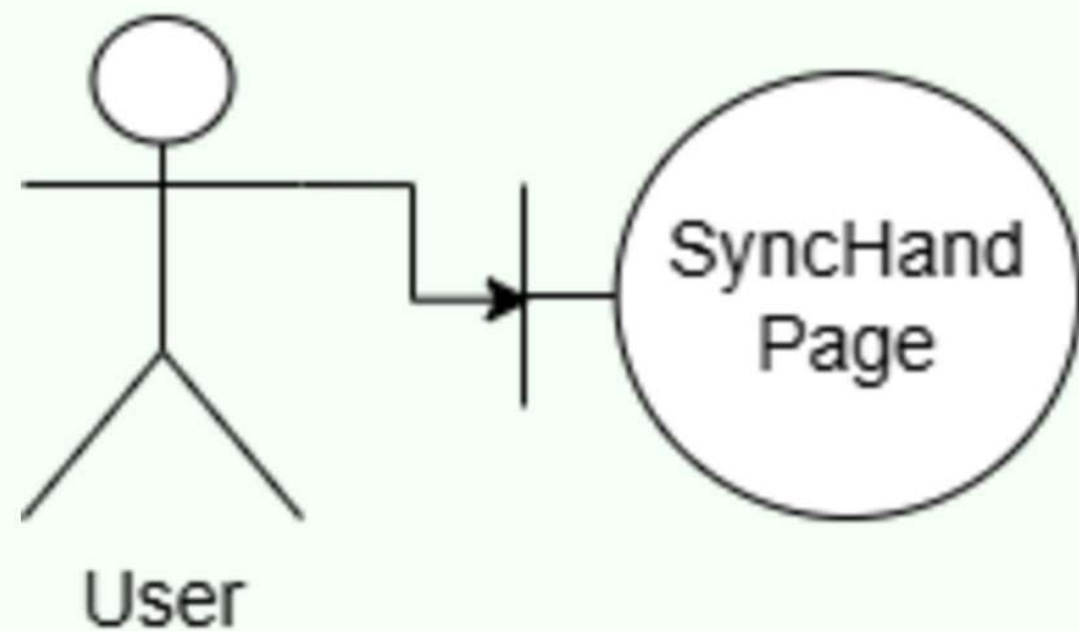
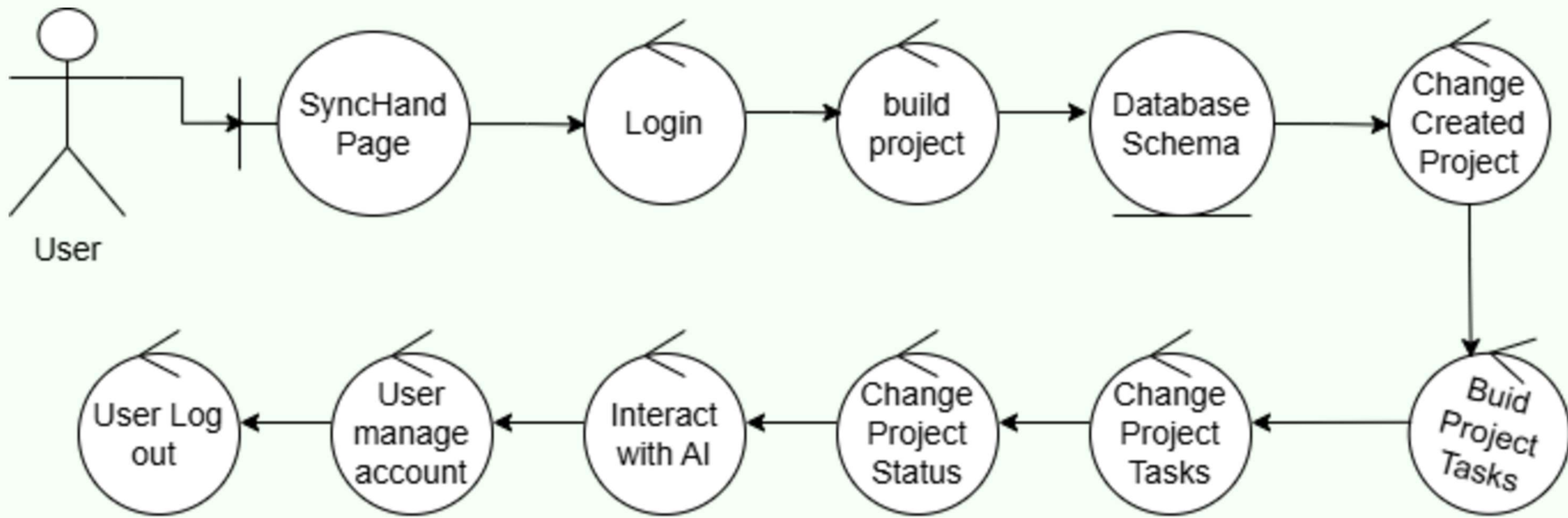
User



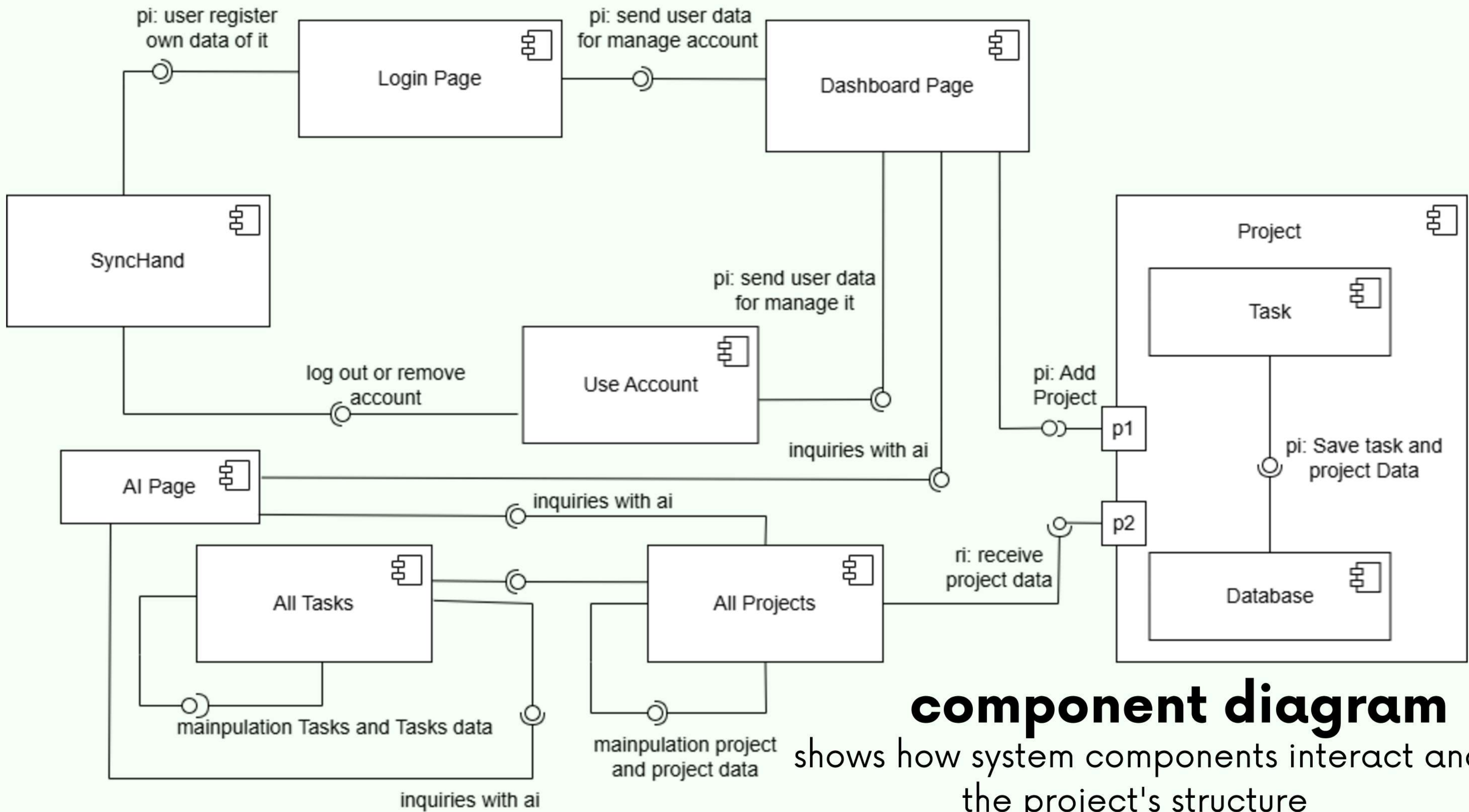
User



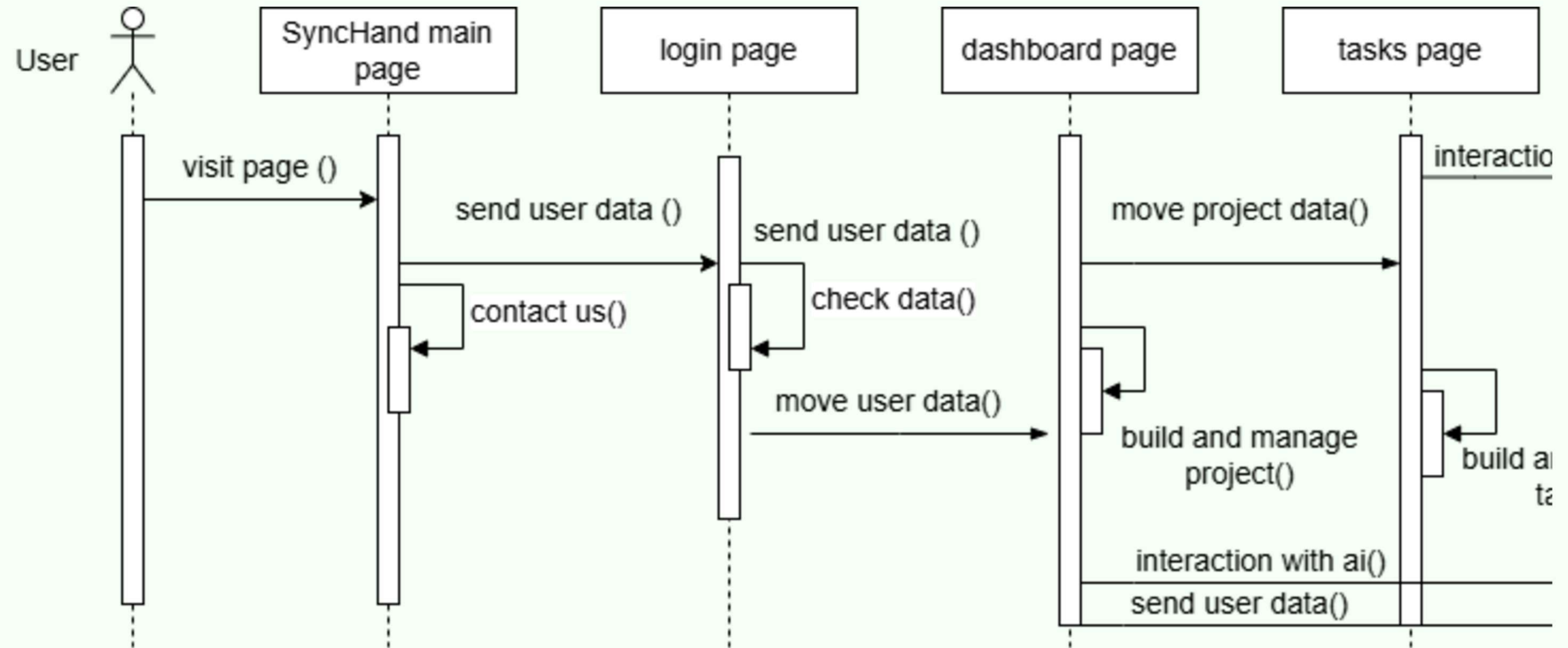




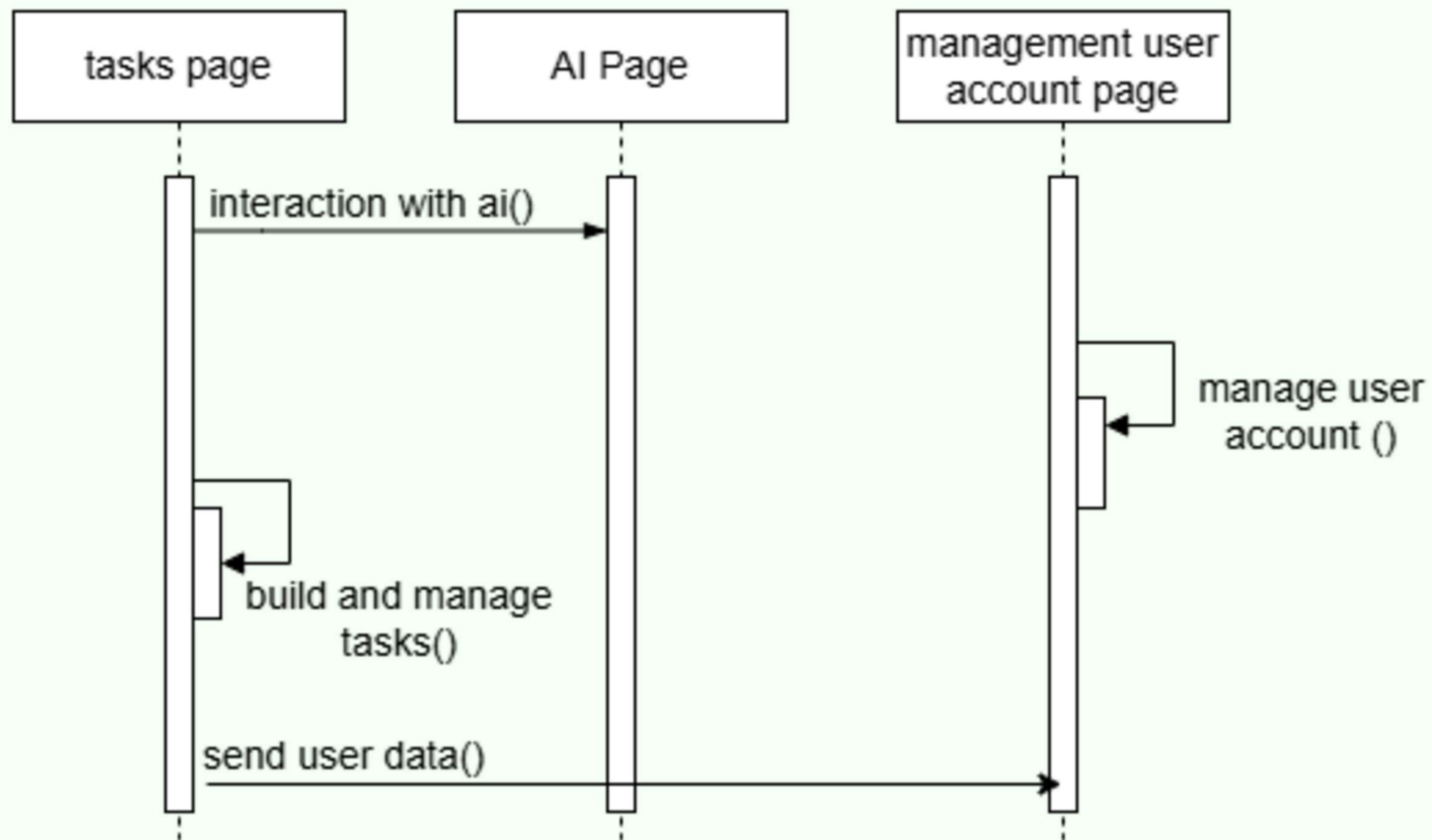
**Robustness Analysis Diagram:**  
helps us bridge the gap between Use Cases and Sequence diagrams that are used in software architecture.



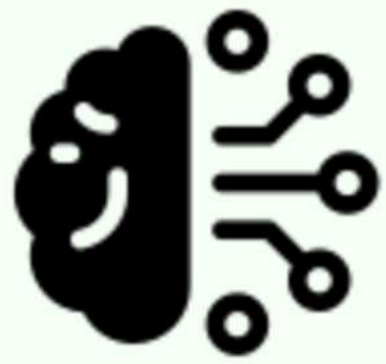




**A sequence diagram** shows the order of interactions between system components.

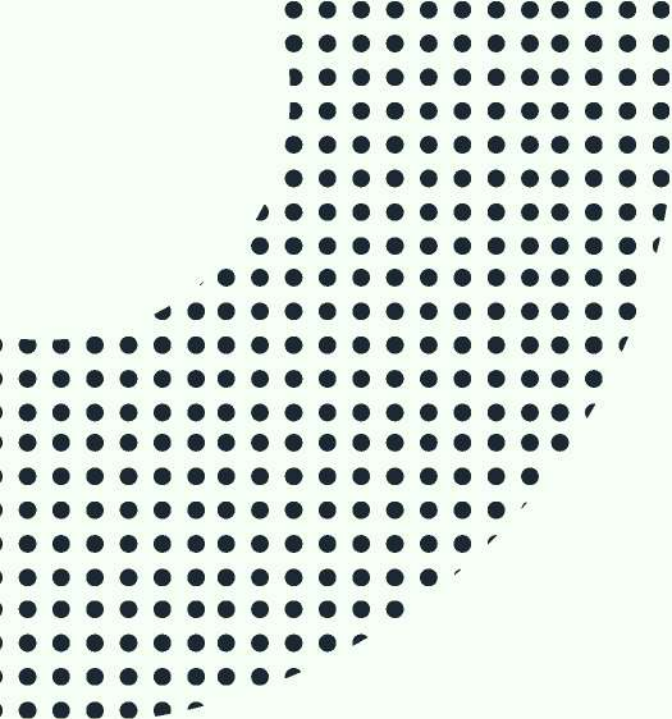






## *Future Feature*

Based on feedback from Dr. Sawsan Abu-Taleb, we have suggested implementing a chat system to facilitate communication between the project owner and team members.



*Thanks for all of you*

**If you have any questions, we are welcome to  
answer the theme**

