



Homework 2

Software Engineering Principle

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Features

Gantt Chart

Used for planning project plan and tasks duration or deadline.

Class Diagram

Used for designing classes in the projects.

Interaction Diagram

Used for designing how classes interact each others in the projects.

Markdown Renderer for the task assignment page

How it works:

- As mentioned earlier, we can use markdown to express the task, ∴ we need a markdown renderer.

Implementation Approach:

- Use QEngineWebView Module in PyQt.

VS-Code Extension (OPTIONAL)

TODO extension in VS-Code with better description for the task and with team member(s) assigned to that task.

How it works:

- If you have comment with TODO in the front, you can add description of the task in a different entry and also in a markdown file.
- If you want to add a person in charge for that task (OPTIONAL), you can use @TEMP, where TEMP can be either role or team member names.
- After saved, you can access the TODO description as you hover and click to inspect task in the comment.

Implementation Approach:

- Scan through the file looking for comment with TODO in the front then keep the entry into the DB.
- We can edit the TODO description inside a external markdown file.

Page included in this homework

- **Design Page:** Page to brainstorm the program architecture and to adjust tasks duration or deadline.
- **User Settings Page:** Page to edit current user settings.

Code:

DesignPage.py

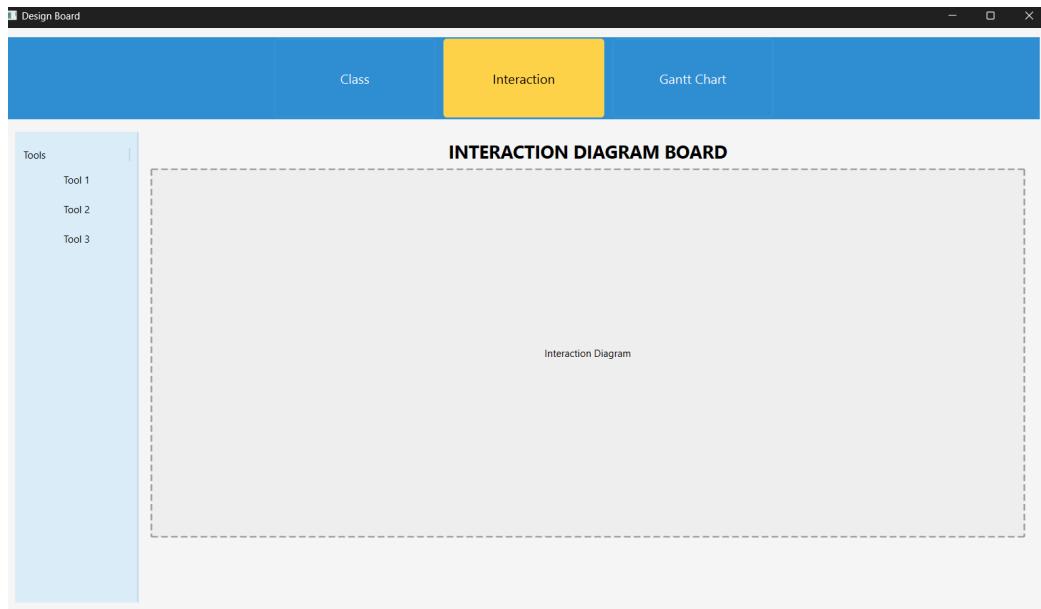
<MINTED>

UserSettingsPage.py

<MINTED>

Output:

Design Page



User Settings Page

The screenshot shows a window titled "Setting" with a yellow sidebar on the left and a white main content area on the right.

Account:

Username: Raph
Email: raph@example.com
Phone: +66 1234 5678
Account ID: 12345
Status: Active

Email:

Phone:

Account ID (Read-only):
12345

Change Password

Old Password:

New Password:

Confirm Password:

Save