



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, \therefore 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

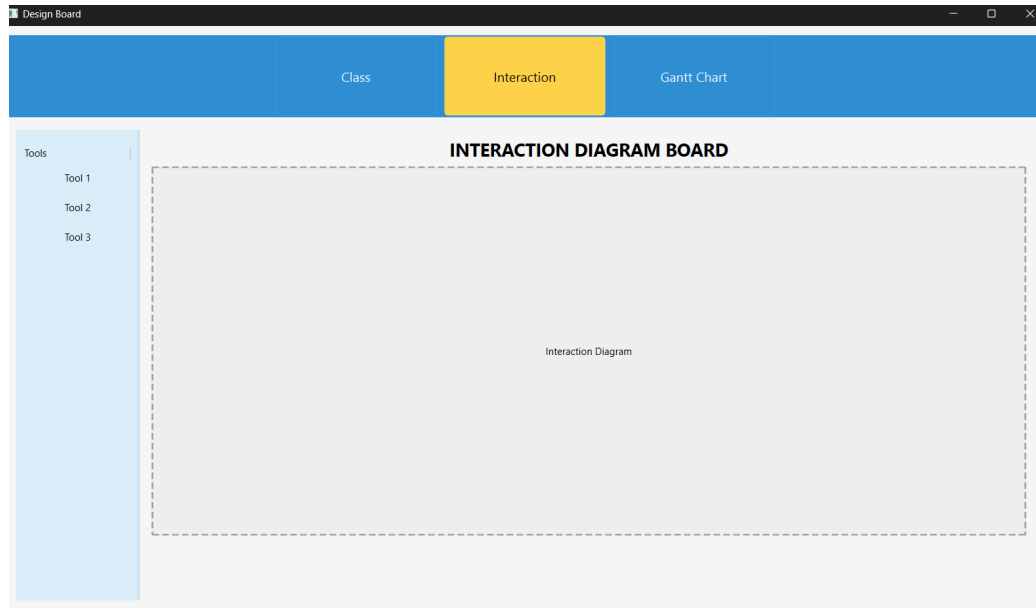
<MINTED>

UserSettingsPage.py

<MINTED>

Output:

Design Page



User Settings Page

Setting

Account:

Username: Raph

Email: raph@example.com

Phone: +66 1234 5678

Account ID: 12345

Status: Active

Email:

Enter new email

Phone:

Enter phone number

Account ID (Read-only):

12345

Change Password

Old Password:

Enter old password

New Password:

Enter new password

Confirm Password:

Confirm new password

Save