

Sapper Task

Before starting, please fill out this questionnaire (background survey):

https://qfreeaccountssjc1.az1.qualtrics.com/jfe/form/SV_20tCsgSlsvvHEii

Warmup Tasks (Learning)

Task 1: Generate an image based on user descriptions (Sapper utilizes design view for initial code construction, followed by fine-tuning in the project view) **[Simple task, dalle]**

Task 2: Building upon Task 1, add two functionalities: the first allows users to select the drawing type (ink, woodcut, oil painting), with different prompts for each type, and the second permits users to choose the target audience (children, adults) **[if else]**

Optional: Add a requirement change

Task 3: Extending Task 2, add the ability to continue the next scene and generate images through continuation **[chatgpt]**

Task 4: Building upon Task 3, add a loop that allows users to request continuous continuation and drawing. After each new image is drawn, inquire if the user wishes to continue; if yes, continue the continuation; otherwise, end the process **[while]**

Each task should be recorded separately in a video and save the corresponding JSON file.

General Requirements:

1. For each task, it should include the following steps:
 - Read the prompt
 - Create a file/project
 - (optional) Search/consult API documentation
 - Write the code
 - Test the code: strictly follow the provided test samples. Successful testing is required before saving the file.
 - Save the file

Note: Prompt perfection is not required; the focus is on ensuring the entire process flows smoothly, and the answers are reasonably accurate.

For each task, **start recording from reading the prompt, and end the recording once the file is saved**. Also, save the code or JSON file. After each recording session begins, check the corresponding task's checkbox. Every time a test is successfully completed, check the corresponding checkbox.

- File naming format: **<Tool Name>_task<ID>**, for example, sapperV1_task1a.mp4, python_task3b.py, sapperV2_task2c.json.
- All saved files should be placed in a single folder, without the need for multiple separate folders.

Before commencing the user study, please refrain from pre-searching OpenAI's official documentation. Official documentation should be accessed on-site. Do not copy code from the previous user study.

During the user study, you are permitted to directly copy and use API documentation web pages or new code that you find for the tasks. You can copy code from the OpenAI website or prompts from this document.

In this user study, three tools are used for tasks: Python, SapperV1 (without design view), and SapperV2 (with design view).

After completing all tasks, please fill out the questionnaire:

https://qfreeaccountssjc1.az1.qualtrics.com/jfe/form/SV_cAasiUScCFvJ7y6