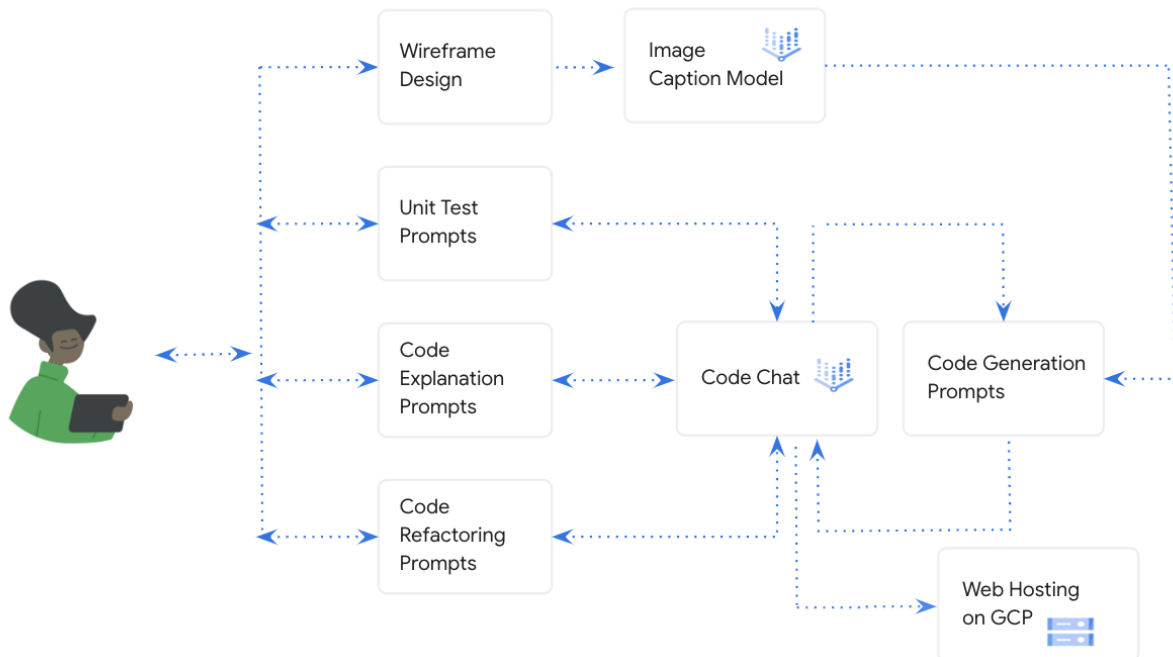# Demo Guide

Lei Pan 10/30

Example - Turn a wireframe image to a live website (HTML, CSS, JS) deployed on GCP in a few simple steps.

UI Demo

Step 1: Enable Vertex AI in your GCP project

1. Go to the Vertex AI Console: https://console.cloud.google.com/vertex-ai/.
2. Click the Enable Vertex AI button.
3. Follow the on-screen instructions to enable Vertex AI.

Step 2: Navigate to the Vision section under Generative AI Studio and Generate Caption.

1. In the Vertex AI Console, click the Generative AI Studio tab.
2. In the Vision section, upload the wireframe image.
3. Click the Generate button.

4. The caption will be generated in a few seconds.

Step 3: Navigate to the Language section under Generative AI Studio and click Code Chat

1. In the Vertex AI Console, click the Generative AI Studio tab.
2. In the Language section, click the Code Chat button.

Step 4:

Step 4.1: Generate HTML and CSS

- Prompt - "Generate **a login page for a website with username and password fields** in HTML and CSS with CSS embedded in HTML"
  - *"a login page for a website with username and password fields"* is generated from the previous step (captioning model)

Step 4.2: Change the color of the login button to red

- Prompt - Change the login button to red

Step 4.3: Add a JavaScript function to handle login logics

- Prompt - Add Javascript code to handle the click of the red login button. If the username is 'Lei' and password is '1234', please show a popup window saying 'Success!', otherwise please a popup window saying 'Login Failed!'

Step 4.4: Generate unit tests to test the code generated

- Write unit test for the Javascript code you just generated

Step 4.5: Explain the code generated

- Explain the code you just generated line by line

Step 4.6: Refactor the code by splitting it into three files

- Split the code you just generated into 3 files including HTML, CSS and Javascript files

API Demo

Step 1: Enable Vertex AI in your GCP project

1. Go to the Vertex AI Console: https://console.cloud.google.com/vertex-ai/.
2. Click the Enable Vertex AI button.
3. Follow the on-screen instructions to enable Vertex AI.

Step 2: Install libraries

Step 3: Create a test GCS bucket where you can host your static website

Step 4: Run the notebook on the left hand side and index.html url (you get that from GCS bucket) on the right hand side. So they can see the changes while you run it.

- All the steps are in the notebook
- Refer to the videos for more details