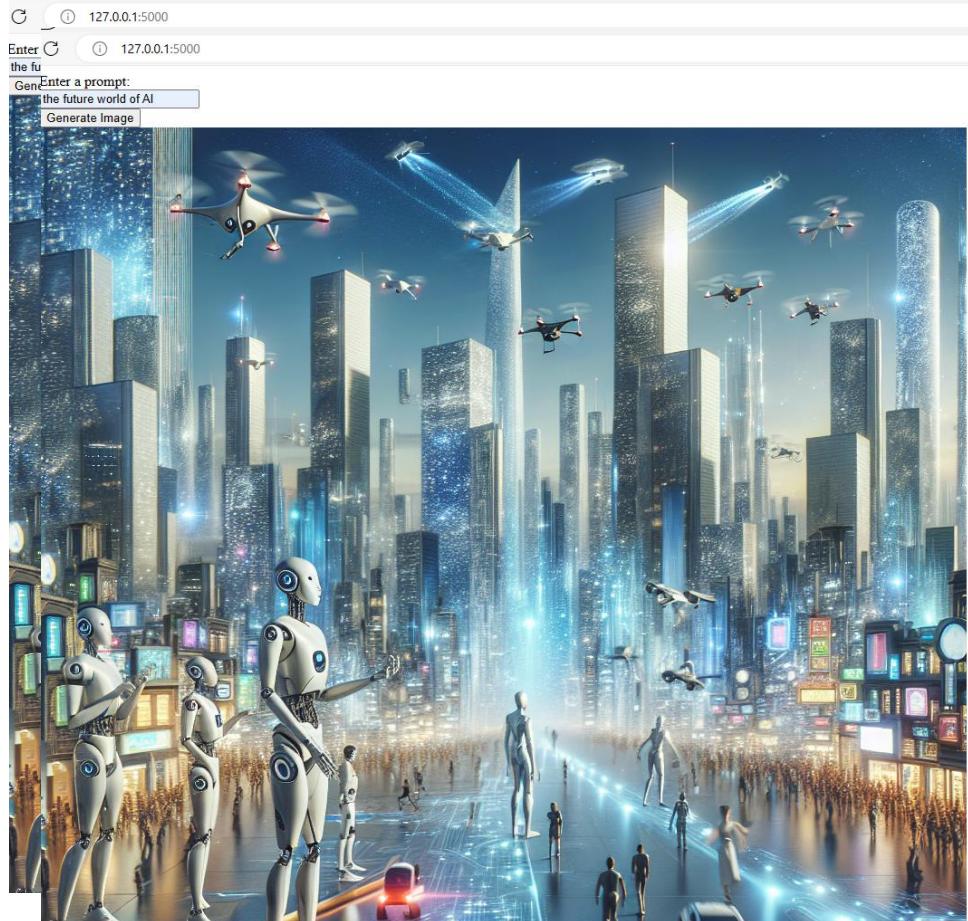


Dall-E 3 Image Generator Web App with Flask

*Coding made fun with
GitHub Copilot Chat*



Pre-requisites

Installed openai Python package version 1.x

👉 pip install openai



Vincent Kok (VK)
郭进强, MCT, ACLP



Install Flask

To create a simple web application using Flask that takes user input and generates an image using the DALL-E 3 model, you can follow these steps:

1. Install Flask if you haven't done so already. You can install it using pip:

```
pip install flask
```



Create Flask Application



2. Create a new Flask application. Here's a simple example of what your Flask application might look like:

```
from flask import Flask, render_template, request
import os
from openai import AzureOpenAI
import json

app = Flask(__name__)

@app.route('/', methods=['GET', 'POST'])
def home():
    if request.method == 'POST':
        prompt = request.form.get('prompt')

        client = AzureOpenAI(
            api_version="2023-12-01-preview",
            azure_endpoint=
            api_key=
        )<Replace with your endpoint and key>

        result = client.images.generate(
            model="dall-e-3", # the name of your DALL-E 3 deployment
            prompt=prompt,
            n=1
        )

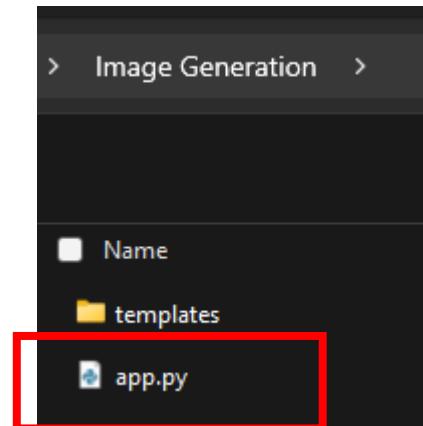
        image_url = json.loads(result.model_dump_json())['data'][0]['url']

        return render_template('home.html', image_url=image_url)

    return render_template('home.html')

if __name__ == '__main__':
    app.run(debug=True)
```

Create a app.py file on the root directory.



Vincent Kok (VK)
郭进强, MCT, ACLP

Create HTML file

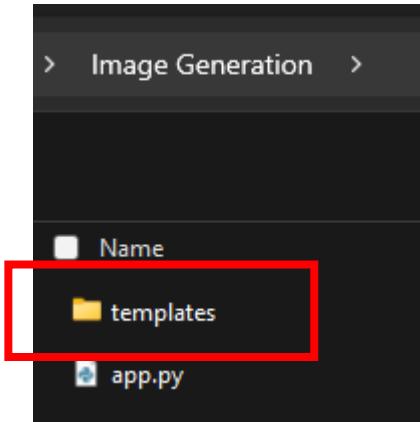
3. Create a new HTML file in a `templates` directory in the same directory as your Flask application. This file should contain a form for the user to enter their prompt. Here's a simple example of what your HTML file might look like:

```
<!DOCTYPE html>
<html>
<head>
    <title>DALL-E 3 Image Generator</title>
</head>
<body>
    <form method="POST">
        <label for="prompt">Enter a prompt:</label><br>
        <input type="text" id="prompt" name="prompt"><br>
        <input type="submit" value="Generate Image">
    </form>

    {% if image_url %}
        
    {% endif %}
</body>
</html>
```



Create a ***home.html*** file in the newly created folder **“templates”**



Run your Flask App

Run your flask app
with the command
python app.py

4. Run your Flask application. You can do this by running the Python script that contains your Flask application.

This is a very basic example and there's a lot more you can do with Flask, but it should give you a good starting point.



Vincent Kok (VK)
郭进强, MCT, ACLP



Have fun!

Browse to the localhost:5000,
and have fun creating images! 😊



Vincent Kok (VK)
郭进强, MCT, ACLP

