### Quickstart Guide: Setting Up a Python Flask Development Environment

#### Prerequisites

- Basic understanding of Python, HTML, CSS, and JavaScript.

- Access to a computer with an internet connection.

#### 1. Install Visual Studio Code (VS Code)

- \*\*Download\*\*: Go to the [VS Code website](https://code.visualstudio.com/) and download the installer for your operating system.

- \*\*Install\*\*: Run the installer and follow the on-screen instructions.

- \*\*Verify\*\*: Open VS Code to ensure it's installed correctly.

#### 2. Install Python

- \*\*Download\*\*: Visit the [Python website](https://www.python.org/downloads/) and download Python 3.11.

- \*\*Install\*\*: Run the installer. Ensure you check the option to "Add Python 3.11 to PATH".

- \*\*Verify\*\*: Open a command prompt or terminal and type `python --version` to check if Python is installed.

#### 3. Install Anaconda

- \*\*Download\*\*: Go to the [Anaconda website](https://www.anaconda.com/products/individual) and download Anaconda for Python 3.11.

- \*\*Install\*\*: Execute the installer and follow the instructions.

- \*\*Create Virtual Environment\*\*:

- Open the Anaconda Prompt and type:

```bash

conda create -n myflaskenv python=3.11

```

- Activate the environment:

```bash

conda activate myflaskenv

```

#### 4. Install Jupyter in VS Code

- \*\*Install Jupyter Plugin\*\*:

- Open VS Code.

- Go to Extensions (sidebar) and search for "Jupyter".

- Install the Jupyter extension.

- \*\*Install Jupyter and Ipykernel\*\*:

- In your activated virtual environment (`myflaskenv`), run:

```bash

conda install jupyter ipykernel

ipython kernel install --user --name=myflaskenv

```

#### 5. Install Required Libraries

- \*\*Pandas, Numpy, Flask, OpenAI, and ChromeDB\*\*:

- In the virtual environment, run:

```bash

pip install pandas numpy flask openai chromadb

```

#### 6. Verify Installation

- Create a simple Python file in VS Code and try importing Flask, Pandas, etc., to ensure everything is installed correctly.

#### 7. Starting Your First Flask Project

- \*\*Create a New Folder\*\* for your project and open it in VS Code.

- \*\*Create a New Python File\*\* (e.g., `app.py`) in the folder.

- \*\*Write a Basic Flask App\*\*:

```python

from flask import Flask

app = Flask(\_\_name\_\_)

@app.route('/')

def hello\_world():

return 'Hello, World!'

if \_\_name\_\_ == '\_\_main\_\_':

app.run(debug=True)

```

- \*\*Run Your Flask App\*\*:

- Open a terminal in VS Code.

- Ensure your virtual environment is active.

- Run the command `python app.py`.

- Open a web browser and go to `http://127.0.0.1:5000/` to see your Flask app.