**Setup Instructions for Hosting the Flask API**

Follow these steps to set up a virtual environment for hosting the Flask API on your machine.

**Step 1: Clone the Repository**

First, make sure you've cloned the repository to your local machine, if you haven't done so already.

git clone <repository-url>

cd <repository-folder>

**Step 2: Set Up Virtual Environment**

1. Open a terminal (Command Prompt or PowerShell) in the project directory.
2. Create a new virtual environment using the following command:
3. python -m venv oci-venv
4. Activate the virtual environment:
   * For PowerShell (Windows):
   * .\oci-venv\Scripts\Activate.ps1
   * For Command Prompt (Windows):
   * .\oci-venv\Scripts\activate

**Step 3: Install Required Packages**

Once the virtual environment is activated, install the required dependencies:

* pip install Flask
* pip install oci
* pip install python-dotenv

**Step 4: Configure the .env File**

Create a .env file in the root directory of your project with the following contents. Replace the dummy values with your actual Oracle Cloud Infrastructure (OCI) credentials and configuration.

OCI\_COMPARTMENT\_ID=your\_compartment\_ocid

OCI\_TENANCY\_ID=your\_tenancy\_ocid

OCI\_USER\_ID=your\_user\_ocid

OCI\_FINGERPRINT=your\_fingerprint

OCI\_REGION=your\_region

OCI\_PRIVATE\_KEY\_PATH=path\_to\_your\_private\_key.pem

OCI\_PROFILE=DEFAULT

OCI\_MODEL\_ID=your\_model\_ocid

Ensure that the path to your private key is correct and points to the .pem file used for authentication.

**Step 5: Run the Flask API**

With the environment set up and dependencies installed, run the Flask API with the following command:

python Cohere\_GenAI\_API.py

Your API will now be running locally on http://127.0.0.1:5000/.

**Step 6: Testing the API**

You can test the API using Postman or a similar tool:

* Send a POST request to http://127.0.0.1:5000/generate.
* Set the body as raw JSON, e.g.,
* {
* "message": "Are you there?"
* }

**Troubleshooting**

* If you encounter any issues with missing dependencies, ensure that all required packages are installed in the virtual environment.
* Ensure that the .env file is properly configured with your OCI credentials.

**Step 7: Deactivate the Virtual Environment**

Once you are done with the development or testing, deactivate the virtual environment using the following command:

deactivate