

Final Project Report - AI for Developers

1. Introduction

This project is a simple AI application that generates text or images using OpenAI API.

It allows users to input textual instructions and receive AI-generated responses either as text via GPT-4 or as images via DALL-E.

2. Technical Requirements

Tools and Technologies Used:

- Programming Language: Python
- Libraries Used: openai, flask, requests
- Development Environment: Visual Studio Code, GitHub Copilot
- GitHub Repository: [Link to be added later]

3. Implementation Stages

Setting Up the Environment:

1. Install the required libraries using: `pip install openai flask requests`
2. Create a `app.py` file for the main script.

Core Code Example:

(Refer to the document for full script details)

Uploading the Project to GitHub:

1. Create a new GitHub repository.
2. Use git commands to upload the project.

Using GitHub Copilot:

- Copilot assisted in writing and improving the script.

4. Running and Testing the Application

1. Start the server using: `python app.py`
2. Send API requests using Postman or curl.
3. Receive generated content.

5. Conclusions and Challenges

Achievements:

- Successfully implemented the application.
- Effectively utilized GitHub Copilot.
- Documented the process.

Challenges:

- Setting up the OpenAI API requires a valid key.
- Some requests take longer, especially for image generation.

6. Final Deliverables

- Project files uploaded to GitHub.
- This report contains all details and screenshots.

Thank you! You can check out the repository and try the application yourself.