

AI Bug Helper - Project Report

Project Overview

AI Bug Helper is a Flask web application that helps beginners debug their code errors using OpenAI's ChatGPT. Users can paste their code and describe their errors, and the AI will respond with an explanation and suggested fix.

Tech Stack

- Flask (Python)
- HTML + CSS + JavaScript
- OpenAI GPT-3.5
- Git & GitHub
- Developed and tested in PyCharm

Run Locally

1. Clone the repository:

```
git clone https://github.com/yourusername/ai-bug-helper.git
```

```
cd ai-bug-helper
```

2. Install dependencies:

```
pip install -r requirements.txt
```

3. Set up OpenAI API key:

Create a .env file in the root with the content:

```
OPENAI_API_KEY=your_openai_api_key_here
```

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4. Run the app:

```
python app.py
```

Visit <http://localhost:5000> in your browser.

Project Structure

- static/: Contains CSS files
- templates/: Contains HTML templates
- app.py: Flask application file
- tasks.json: Stores user-submitted tasks
- requirements.txt: Python dependencies
- README.md: Project documentation

How it Works

1. User inputs code and error message.
2. Flask backend sends request to OpenAI API.
3. AI responds with error explanation and fix.
4. Data is saved to tasks.json.

Features

- Paste code and error message
- AI explains the bug and suggests a fix
- JSON task storage
- Designed with beginners in mind

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Developed By

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Internship Project | AI-Supported Full Stack Developer Role

IDE Used: PyCharm