

Divyesh Sharma

Travel Chatbot with LLM

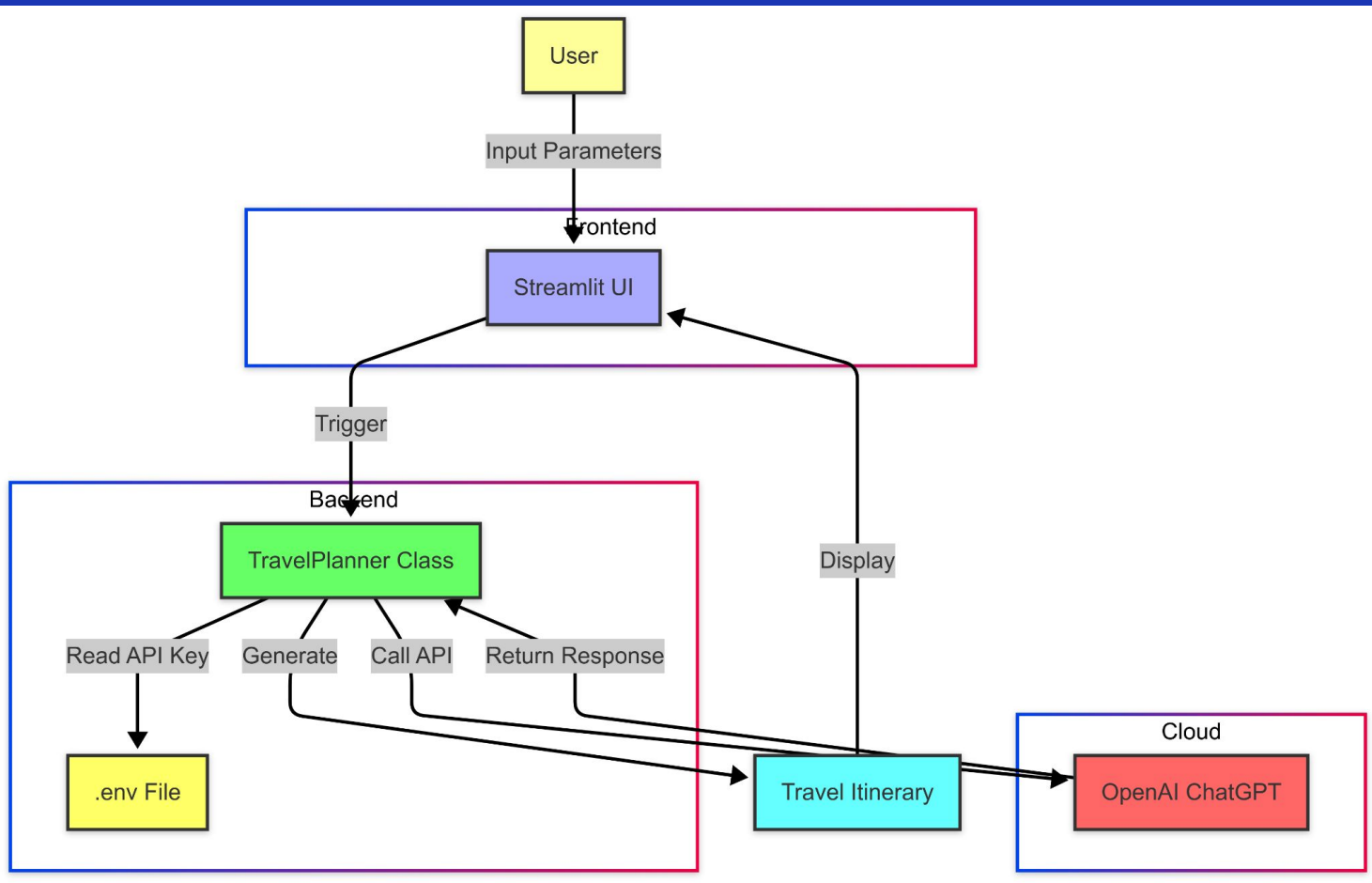
Chatgpt API integration

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- **Objective:**
 - Generate personalized travel itineraries using AI
- **Key Features:**
 - Destination-based planning
 - Budget-aware recommendations
 - Interest customization (history, food, adventure)
- **Tech Stack:**
 - Python, Streamlit, OpenAI API



Architecture Diagram

How It Works

1. User Inputs:

- Destination, budget, interests

2. AI Processing:

- Chain-of-Thought prompting to ChatGPT

3. Output:

- Day-by-day itinerary with costs and tips

Code Snippet

```
prompt = f"""
```

```
Create a {days}-day itinerary for {destination} with:
```

- Budget: \${budget}
- Interests: {interests}

```
Format: Morning/Afternoon/Evening activities
```

```
"""
```

Security & Setup

- **API Key Management:**
 - Stored in .env file (excluded from Git)
 - Loaded via python-dotenv

How to run?

- **streamlit run app.py**

Demo Screenshots



Minimal Travel Planner

Destination

Tokyo

Days



Budget (\$)

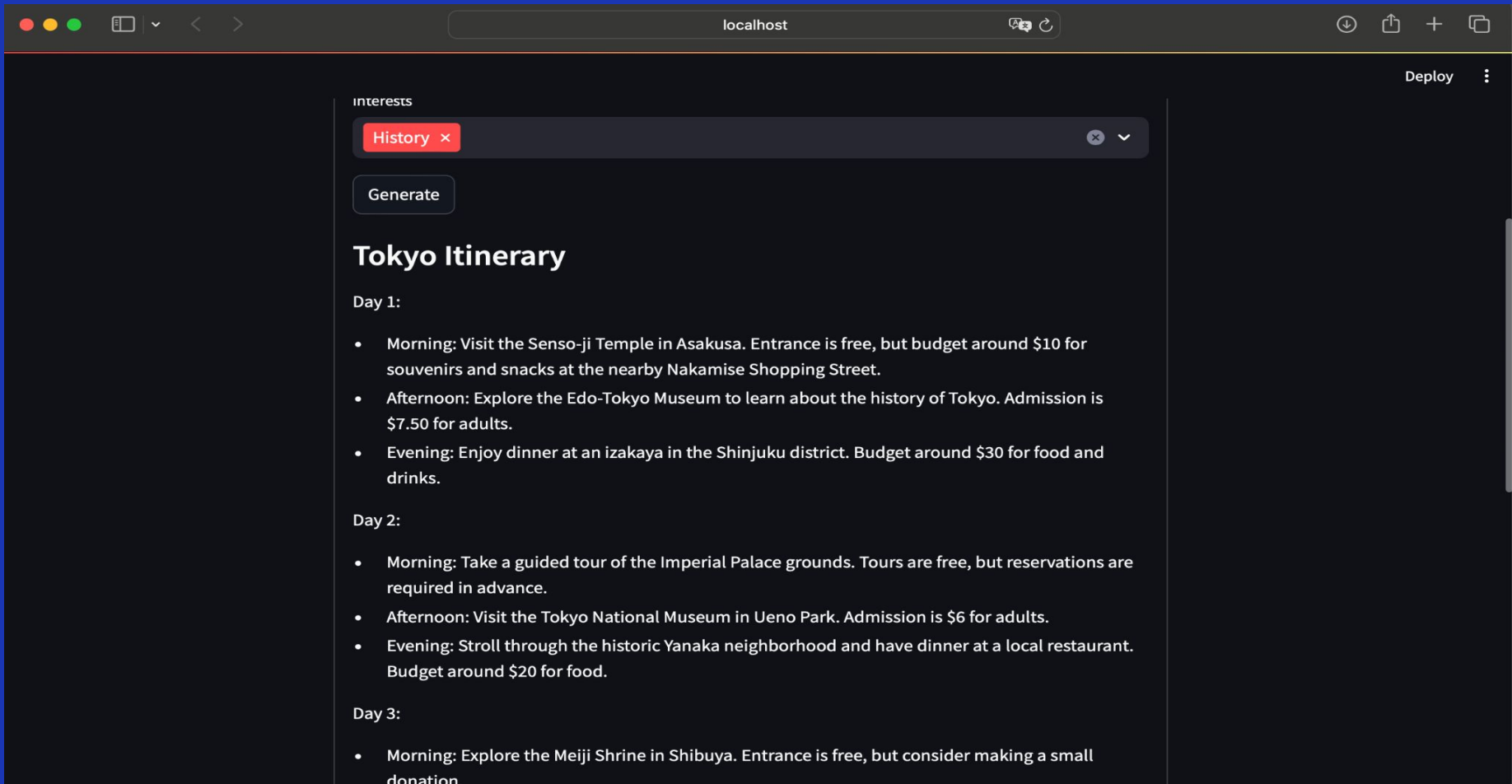


Interests

History ×



Generate



interests

History x

Generate

Tokyo Itinerary

Day 1:

- Morning: Visit the Senso-ji Temple in Asakusa. Entrance is free, but budget around \$10 for souvenirs and snacks at the nearby Nakamise Shopping Street.
- Afternoon: Explore the Edo-Tokyo Museum to learn about the history of Tokyo. Admission is \$7.50 for adults.
- Evening: Enjoy dinner at an izakaya in the Shinjuku district. Budget around \$30 for food and drinks.

Day 2:

- Morning: Take a guided tour of the Imperial Palace grounds. Tours are free, but reservations are required in advance.
- Afternoon: Visit the Tokyo National Museum in Ueno Park. Admission is \$6 for adults.
- Evening: Stroll through the historic Yanaka neighborhood and have dinner at a local restaurant. Budget around \$20 for food.

Day 3:

- Morning: Explore the Meiji Shrine in Shibuya. Entrance is free, but consider making a small donation.

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Future Enhancements

1. **Integrate Real APIs:**
 - Google Maps (hotels)
 - Skyscanner (flights)

Github link for project.

1. <https://github.com/dsharma3/TravelPlannerWithChatGPT>