AI Travel Planner - User Manual

Introduction

The AI Travel Planner is an interactive Streamlit-based web application that helps users plan their trips efficiently. It provides cost estimations, generates detailed itineraries, and includes a built-in AI chatbot for travel-related queries.

Features

1. Travel Cost Estimation

- Estimates travel costs based on:
  - Source and Destination
  - Budget and Currency
  - Number of Travelers (Adults & Children)
  - Transport Mode (Flight, Train, Bus, Cab, Any)
  - Whether food expenses should be included
  - Travel Date
- Considers transport, accommodation, food, and miscellaneous expenses.
- Adjusts for weekends, peak seasons, and cost-saving options.

2. AI-Powered Travel Itinerary Generator

- Generates a structured itinerary including:
  - Must-visit attractions and local experiences
  - Accommodation recommendations (budget, mid-range, luxury)
  - Local transport recommendations
  - Best restaurants to try local cuisine
  - Hourly breakdown of activities
  - Cost-saving travel tips

3. Chatbot Assistant

- Answers questions related to:
  - Using the application
  - Travel recommendations
  - Travel budgeting and planning
  - Additional travel-related queries
- Powered by Google Gemini AI via LangChain.
- Provides AI-generated responses based on stored travel knowledge.

User Guide

Step 1: Enter Your API Key

1. Open the sidebar on the left.
2. Enter a valid Google API Key.
3. If valid, a success message appears. Otherwise, enter a correct key.

Step 2: Input Travel Details

1. **Source & Destination**: Enter the starting location and destination.
2. **Number of Travelers**: Select the number of adults and children.
3. **Currency**: Choose from INR, USD, EUR, GBP, AUD, CAD.
4. **Transport Mode**: Select Flight, Train, Bus, Cab, or Any.
5. **Travel Date**: Pick your travel date.
6. **Budget (Optional)**: Enter your estimated budget.
7. **Include Food Expenses**: Check the box if food should be included.

Step 3: Get Cost Estimation

1. Go to the **"💰 Cost Estimation"** tab.
2. Click **"Get Travel Cost Estimate 🧾"**.
3. The app will generate and display estimated travel costs.

Step 4: Generate Itinerary

1. Go to the **"📍 Itinerary"** tab.
2. Click **"Generate Itinerary 📌"**.
3. The app will create a detailed travel itinerary.

Step 5: Chat with AI Travel Assistant

1. Click the 💬 **Floating Chatbot Button** (bottom-right corner).
2. Enter your question in the chatbot sidebar.
3. View responses and chat history.

FAQs

1. How do I get a Google API Key?

You need to create an API key from Google Cloud Console under the Gemini AI API section.

2. What happens if my API key is invalid?

The app will prompt you to enter a valid API key.

3. Can I customize the travel itinerary?

Currently, the itinerary is generated automatically. However, you can modify the provided suggestions.

4. Does the app consider seasonal price fluctuations?

Yes, the AI factors in peak seasons and weekends while estimating costs.

5. How can I improve my chatbot experience?

Provide detailed and clear questions about your travel plans for better responses.

Troubleshooting

Issue: API Key Not Working

- Ensure your API key is active and correctly entered.
- Check if you have exceeded the API request limit.

Issue: No Response from AI

- Try refreshing the app.
- Verify API key validity.
- Ensure you have a stable internet connection.

Issue: Cost Estimation or Itinerary Not Generating

- Ensure all required fields are filled correctly.
- If the issue persists, restart the app.

Contact & Support

For further assistance, please contact support at **support@aitravelplanner.com** or visit our website at **www.aitravelplanner.com**.