Project Introduction

Project Name: Jeju Tour Chatbot
Team Member Information: 1-Person Team (Hyunkyung Lee)

Development Background:
The **Jeju Tour Chatbot** was developed to address the growing demand for personalized and accessible travel information. As more travelers seek unique experiences and detailed knowledge about destinations, this project aims to bridge the gap between visitors and the rich cultural, natural, and culinary experiences of Jeju Island. By leveraging advanced AI models and real-time data, the chatbot offers not only friendly small-talk conversations but also convenient and detailed answers about specific places.

Utilization of Upstage API:

- **Fine-tuning and Inference**: The Upstage API was used for both fine-tuning and inference, enabling the AI model to deliver contextually aware and relevant responses.
- **Multi-turn Response Generation**: The project utilized a LoRA-tuned "Solar-1-mini-chat" model to generate coherent and contextually appropriate multi-turn conversations with users, ensuring an interactive and informative experience.
- **Search Query Keyword Generation**: The basic "Solar-1-mini-chat" model was used to infer and generate accurate search query keywords, which enabled the chatbot to retrieve and provide detailed information relevant to user inquiries.

Technologies Used:

- **AI Model**: "Solar-1-mini-chat" (Upstage)
- **Web Implementation Technology**: Streamlit
- **APIs**: Google Maps API
- **Database**: MongoDB

Social Impact and Innovation:
The **Jeju Tour Chatbot** represents a significant innovation in the way travelers interact with tourism information. By providing an AI-driven, conversational interface, this project makes travel planning more inclusive and accessible, particularly for individuals who may face lack familiarity with Jeju Island. The chatbot's ability to conduct multi-turn conversations allows users to receive personalized recommendations and detailed information, enhancing their overall travel experience.

Moreover, the integration of real-time search and mapping capabilities empowers users to explore Jeju's attractions more effectively, contributing to the promotion of local tourism. The **Jeju Tour Chatbot** ultimately enriches the travel experience, making it more interactive, informed, and enjoyable for a diverse range of users.