Lesson 4 Demo 05

Implement the Application Using the Streamlit UI

Objective: To demonstrate how the trip planner application uses user inputs (origin, cities, travel dates, and interests) to generate a personalized trip plan

By utilizing CrewAI agents and tasks, the application intelligently creates an itinerary and provides relevant city information, offering an interactive and customized travel experience.

Tools required: VSCode

Prerequisites: Complete the Lesson 4 Prerequisite Demo, Lesson 4 Demo 1, Lesson 4 Demo 2, Lesson 4 Demo 3, and Lesson 4 Demo 4

Steps to be followed:

- 1. Create a main.py file
- 2. Import dependencies
- 3. Collect user inputs
- 4. Initialize TripCrew and run the trip planner
- 5. Display the results
- 6. Run the code

Step 1: Create a main.py file

Note: Refer to Lesson 4 Demo 1 to create a .py file

Step 2: Import dependencies

```
main.py >...
1  from textwrap import dedent
2  from crew import TripCrew
3
```

Step 3: Collect user inputs

- 3.1 Prompt the user to enter details about their travel preferences:
 - a) Origin of travel
 - b) Cities they are interested in visiting
 - c) Travel date range
 - d) Personal interests or hobbies

```
4 if __name__ == "__main__":
5     print("## Welcome to Trip Planner Crew")
6     print('-------')
7
8     origin = input(dedent("From where will you be traveling from?\n"))
9     cities = input(dedent("What are the cities options you are interested in visiting?\n"))
10     date_range = input(dedent("What is the date range you are interested in traveling?\n"))
11     interests = input(dedent("What are some of your high-level interests and hobbies?\n"))
```

Step 4: Initialize the TripCrew and run the trip planner

4.1 Use the collected input to initialize the TripCrew class, which contains the logic for creating and managing the trip plan

```
trip_crew = TripCrew(origin, cities, date_range, interests)
result = trip_crew.run()
```

Step 5: Display the results

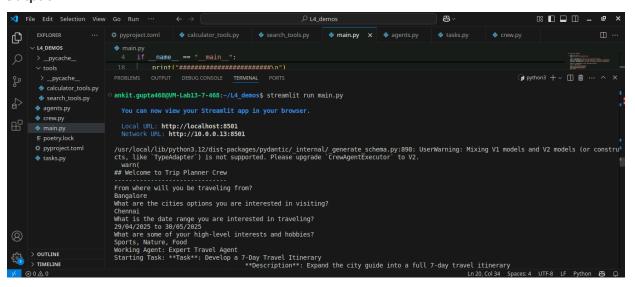
Step 6: Run the code

6.1 Save the file and then run code from VS code terminal using the command given below: **streamlit run main.py**

NOTE – if you are getting errors related to crewai and langchain modules, then you can use these commands (in the VS code terminal itself) to resolve the issue (make sure same versions are installed):

```
pip install crewai==0.1.24 --break-system-packages
pip install langchain-openai==0.0.5 --break-system-packages
```

Output:



By following the above-mentioned steps, you have successfully built an AI-powered tripplanning demo using CrewAI and its intelligent agents. The demo effectively integrates specialized tools and agents to deliver personalized itineraries and real-time local insights. This robust framework streamlines travel planning and paves the way for future enhancements and customizations.