Multi Agent System

Agent A: weather

* Web search API -> getting information about delays
* Weather API -> current weather in wanted destination

Agent B: booking

* Parsing and retrieving flight information

Agent C: recommendation

* Based on user preference and Agent A info recommend destination

Agent D: (RAG) Internal Data about Airline

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**1. Agent A: Information Retrieval Specialist**

• Responsibilities:

• Conduct web searches to gather data on flight delays, travel advisories, and other pertinent information.

• Access real-time weather data for specific destinations.

• Potential Resources:

• Weather APIs:

• OpenWeatherMap: Offers current weather data, forecasts, and historical data.

• WeatherAPI.com: Provides weather and geolocation data.

• Open-Meteo: An open-source weather API offering free access without requiring an API key.

• National Weather Service API: Supplies forecasts, alerts, and observations.

**2. Agent B: Flight Information Processor**

• Responsibilities:

• Interpret and extract flight details from user input, such as dates, destinations, and preferences.

• Validate and structure this information for seamless integration with other agents.

• Potential Resources:

• Flight Data APIs:

• AviationStack: Provides real-time flight status and global aviation data.

• FlightAware: Offers flight tracking data and APIs.

**3. Agent C: Travel Recommendation Advisor**

• Responsibilities:

• Analyze user preferences alongside data from Agent A to offer tailored travel recommendations.

• Consider factors like weather conditions, potential delays, and destination popularity.

• Potential Resources:

• Travel Advisory Platforms:

• TripAdvisor: For user reviews and travel insights.

• Lonely Planet: Offers destination guides and travel tips.

**4. Agent D: Regulatory and Compliance Consultant**

• Responsibilities:

• Maintain and provide information on airline policies, terms, and conditions.

• Ensure that recommendations and bookings comply with relevant regulations.

• Potential Resources:

• Airline Policy Repositories:

• International Air Transport Association (IATA): For industry standards and regulations.

• Individual airline websites for specific policies.

**5. Agent E: Rebooking and Modification Facilitator**

• Responsibilities:

• Assist users in altering existing bookings, such as changing flight dates or times.

• Handle rebooking processes in cases of delays or cancellations.

• Potential Resources:

• Booking Management Systems:

• Access to airline reservation systems (subject to necessary permissions and integrations).

• Amadeus: Provides APIs for travel booking and management.

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Here is the link to the Paris Chapter Travel Advisor for anyone who is interested:

<https://dagshub.com/Omdena/ParisFranceChapter_AITravelAdvisors>

Crewai Folder

**Things to do:**

1. Select Framework, Crewai, Autogen, Open ai, etc
2. I’ve reached out to Tushar to see if we have access to any framework
3. Identify how many agents we need and Identify a task lead to ensure completion
4. The Paris chapter worked on a travel advisor before. I reached out to Tushar concerning access