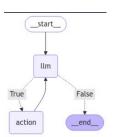
Streaming and Persistence

viernes, noviembre 01, 2024 1:53

- 1. Adding persistence to the model.
- 2. Adding streaming
 - a. Both can be synchronous
 - b. Or asynchronous



Appendix (in notebooks) HUMAN IN THE LOOP INTERACTIONS

We can add interrumpts in different nodes like node="action" so whenever The agent needs to run a node (e.g action), it will stop there, and from there We decide whether resuming the graph or stopping the agent





The **persistence** allows us to checkpoint

Stores the

checkpoints
In the database
without stopping
Any process

The state of the agent after and between every node

a. It can be synchronous
b. Or asynchronous

Waits for the llm/tool
To finish in order to checkpoint it.
(stores everything sequentially)

thread = {"configurable": {"thread_id": "1"}} We are using threads. This allows us in real world apps to Have multiple conversations in pararell - Whereas the agents, can renmber from the Context. E.g if you use a different thread_id, it won't renember anything

2. Streaming

abot.graph.stream({"messages": messages}, thread):

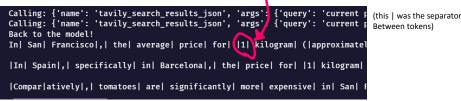
Depending on the <u>persistence</u> configuration (agent graph memmory saver) we selected: we'll see the intermediate steps of the agent and output

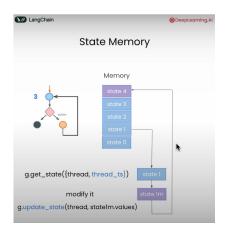
A) It can be synchronous

```
{'messages': [AIMessage(content='', additional_kwargs={'tool_calls': [{'id': Calling: {'name': 'tavily_search_results_json', 'args': {'query': 'Los Angel Back to the model!
{'messages': [ToolMessage(content='[{\'url\': \'https://www.weatherapi.com/\\
{'messages': [AIMessage(content='The current weather in Los Angeles is 15.1°
```

B) Or it can be asynchronous

The LLM now streams tokens too when running, So we can see <u>each</u> generated **token** in real time





Extra note: We can acess to all the different "states" inside the Ilm, And changue them

We can also "Mock out" responses For the Ilm instead of calling an Action node, so it directly goes to the Llm...etc

(details in notebooks)