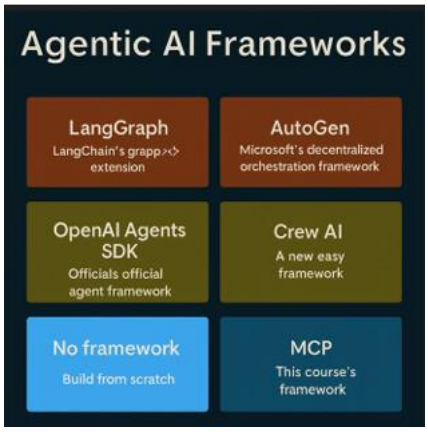
Recap: in previous session, we went through OPENAI SDK core without framework as part of complexity level 1



In morning session, we used openSDK framework to implement Agentic workflow.

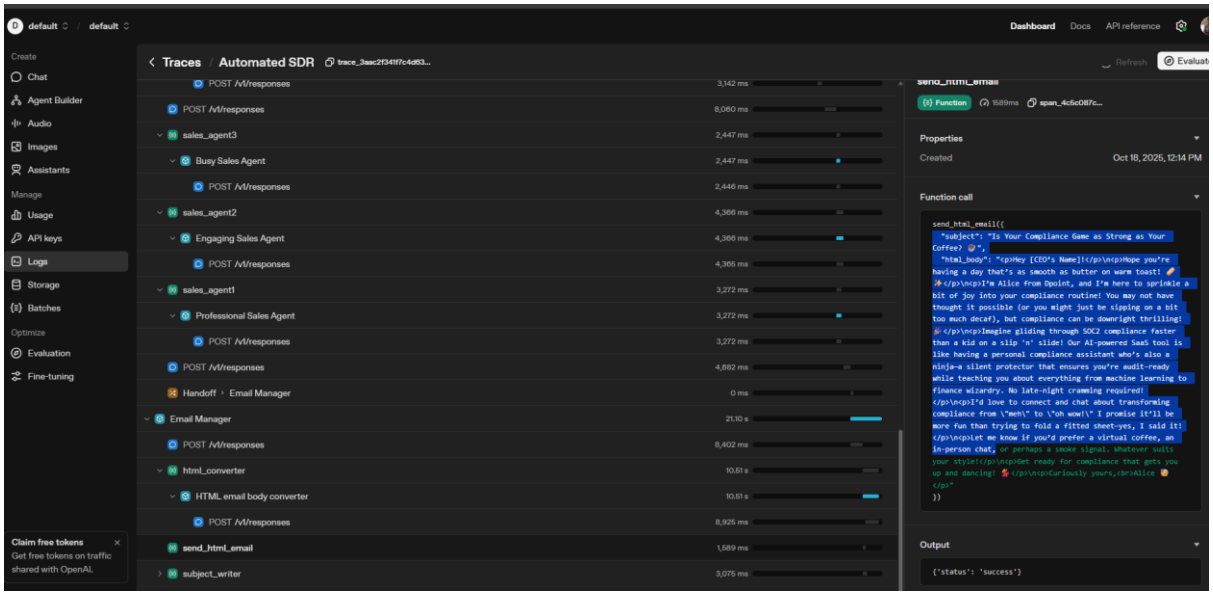
We learned about asyncio operations, when to use and why?

We got introduction to Open AI Agents SDK.

Documentation 1: https://openai.github.io/openai-agents-python/

Documentation 2: https://openai.github.io/openai-agents-python/quickstart/

We learned about **tracing** in the openai.



We had practical exposure with labs and exercise to get hands on with Agents, Handoffs, Guardrail's. We read documentation and went across the stand template steps to create agentic workflow.

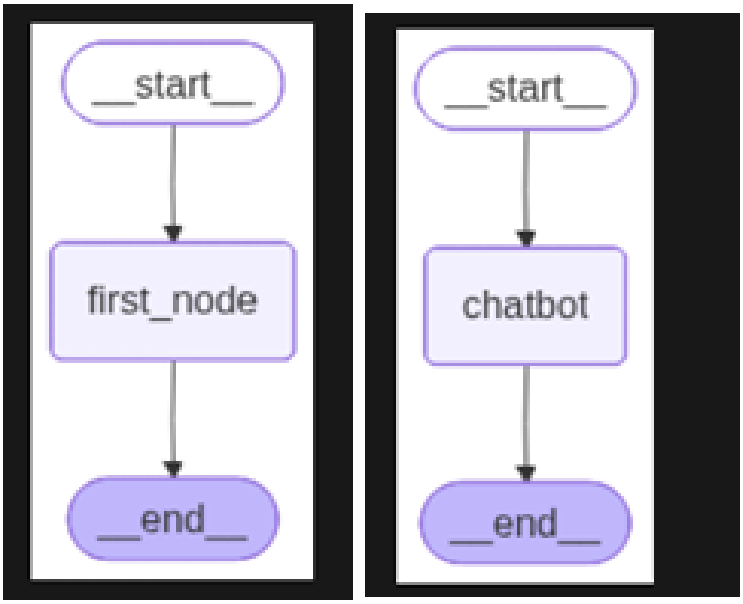
Tools we used in these labs are: send grid for email, and WebSearchTool by google, and implemented a sales manager setup with handoffs.

In afternoon session, we used Langchain and langGraph framework to implement Agentic workflow.

We learned why the existence of Langchain and LangGraph, what is the need and when we should go for which one compared to our previous frameworks.

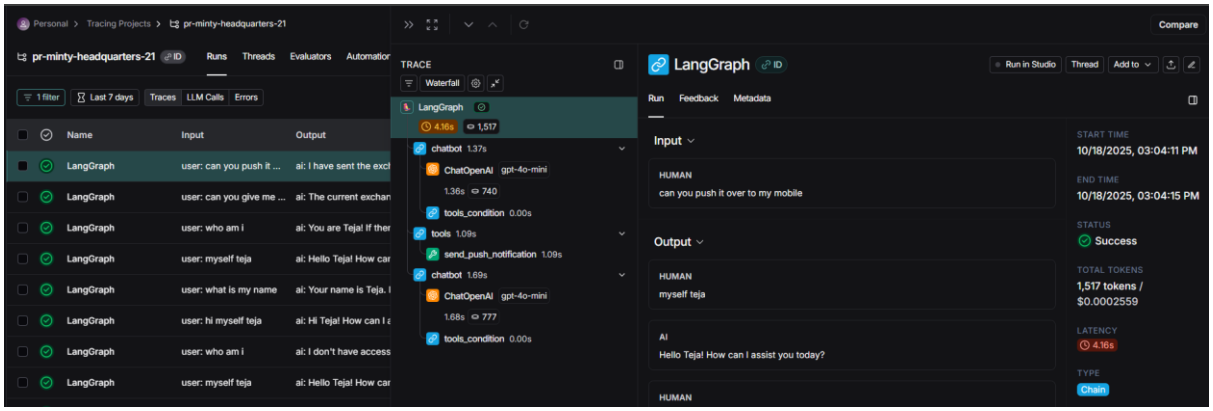
We discussed standard terminologies like nodes, graph, edges, conditional edges, and went through five steps of graph.

We implemented lab and understood about State, immutability, reducers, super steps, networking and performance measurements.

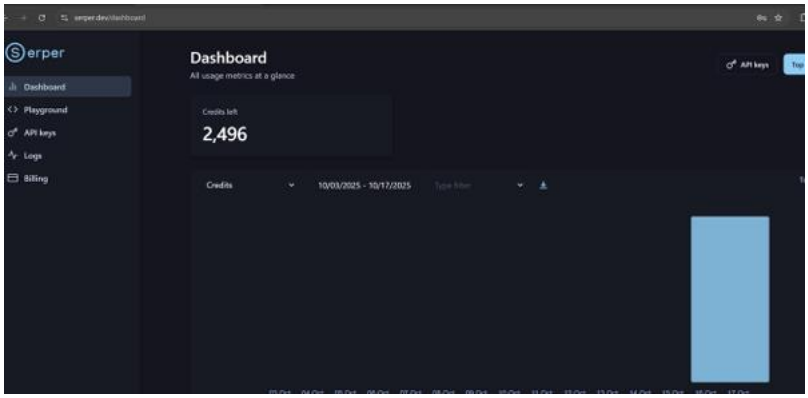


We used custom tools, and tools provided by Langchain.

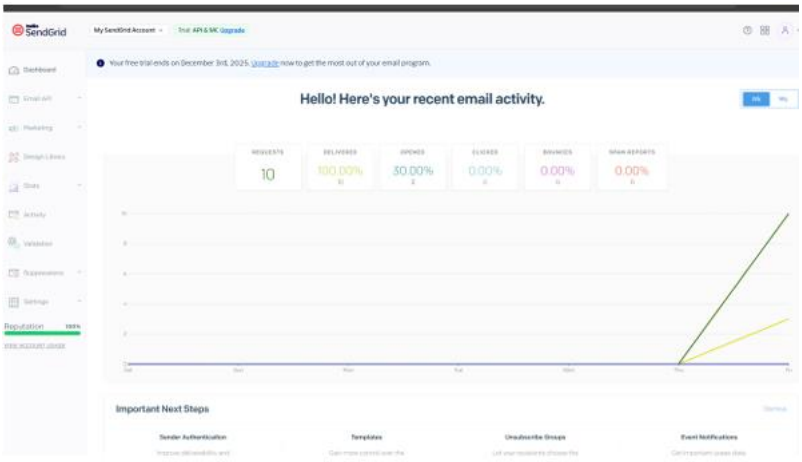
We integrated with one more framework called **LangSmith** for tracing purpose,



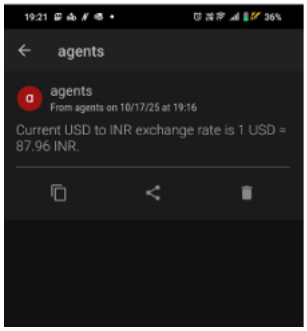
Also integrated with serper.dev for google search tool



And sendgrid for email



And pushover for mobile notification.



We implemented the memory – in memory and persistent memory into the graph using SQLite.

And saw decorators like @function_tool, @input_guardrails, and many such relevant agentic at decorators.

ASSIGNMENT:

1. Complete the hosting on to hugging face.
2. Do the video recording of your implementation with tools, resources, guardrails, handoffs, vector, memory, following one of the agentic patterns. – you can use OBS studio for recording which is free of cost.
3. Push the recording and documentation, along with relevant system and flow diagrams in the readme of GitHub.
4. Push your complete app code in GitHub.
5. Complete previous assignments.
6. Complete the exercises in the lab.