

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.

The screenshot shows the OpenAI Agents SDK dashboard. The left sidebar contains navigation options: Chat, Agent Builder, Audio, Images, Assistants, Manage, Usage, API keys, Logs, Storage, Batches, Optimize, Evaluation, and Fine-tuning. The main area displays a trace for "Automated SDR" with a table of steps and their durations. The right panel shows the function call for "send_html_email" with a detailed HTML body.

Step	Duration
POST /M/responses	3,142 ms
POST /M/responses	8,060 ms
sales_agent3	2,447 ms
Busy Sales Agent	2,447 ms
POST /M/responses	2,448 ms
sales_agent2	4,366 ms
Engaging Sales Agent	4,366 ms
POST /M/responses	4,366 ms
sales_agent1	3,272 ms
Professional Sales Agent	3,272 ms
POST /M/responses	3,272 ms
POST /M/responses	4,882 ms
Handoff - Email Manager	0 ms
Email Manager	21,10 ms
POST /M/responses	8,402 ms
html_converter	10,81 ms
HTML email body converter	10,81 ms
POST /M/responses	8,925 ms
send_html_email	1,589 ms
subject_writer	3,076 ms

```
send_html_email({
  "subject": "Is Your Compliance Game as Strong as Your Coffee?",
  "html_body": "<p>Hey [CEO's Name]</p><p>Hope you're having a day that's as smooth as butter on warm toast! </p><p>I'm Alice from DevOps, and I'm here to sprinkle a bit of joy into your compliance routine! You may not have thought it possible (or you might just be slipping on a bit too much decaf), but compliance can be downright thrilling! </p><p>Imagine gliding through SOC2 compliance faster than a kid on a slip 'n' slide! Our AI-powered SaaS tool is like having a personal compliance assistant who's also a ninja—a silent protector that ensures you're audit-ready while teaching you about everything from machine learning to finance wizardry. No late-night cramming required! </p><p>I'd love to connect and chat about transforming compliance from 'meh' to 'oh wow!' I promise it'll be more fun than trying to fold a fitted sheet. Yes, I said it! </p><p>Let me know if you'd prefer a virtual coffee, an in-person chat, or perhaps a smoke signal. Whatever suits your style! </p><p>I'm ready for compliance that gets you up and moving! </p><p>Warmly, Alice </p></p>")
})
```

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.

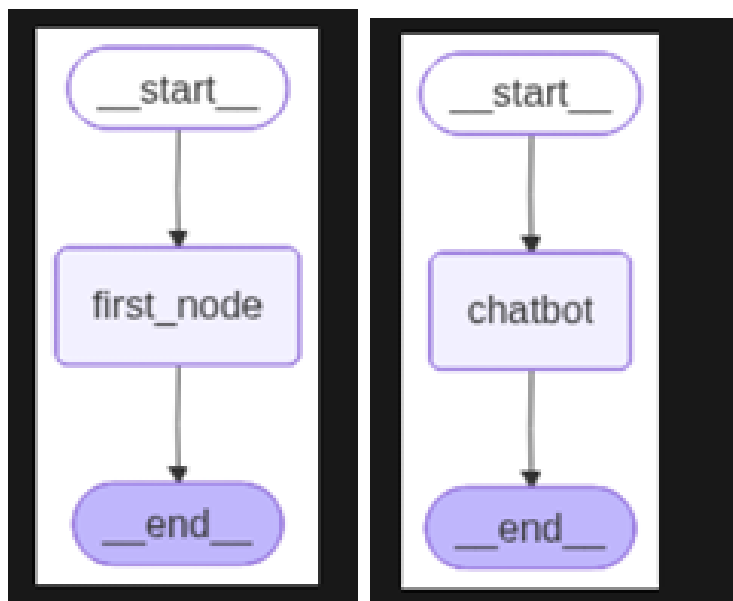
Tools we used in these labs are: send grid for email, and WebSearchTool by google, and implemented a sales manager setup with handoffs.

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.

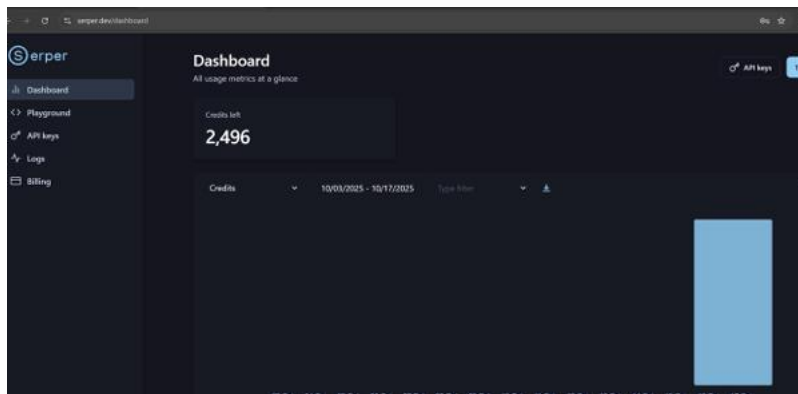
We integrated with one more framework called **LangSmith** for tracing purpose,

Name	Input	Output
LangGraph	user: can you push it ...	ai: I have sent the excl
LangGraph	user: can you give me ...	ai: The current exchan
LangGraph	user: who am i	ai: You are Tejal If ther
LangGraph	user: myself teja	ai: Hello Tejal How car
LangGraph	user: what is my name	ai: Your name is Teja. I
LangGraph	user: hi myself teja	ai: Hi Tejal How can I z
LangGraph	user: who am i	ai: I don't have access
LangGraph	user: myself teja	ai: Hello Tejal How car

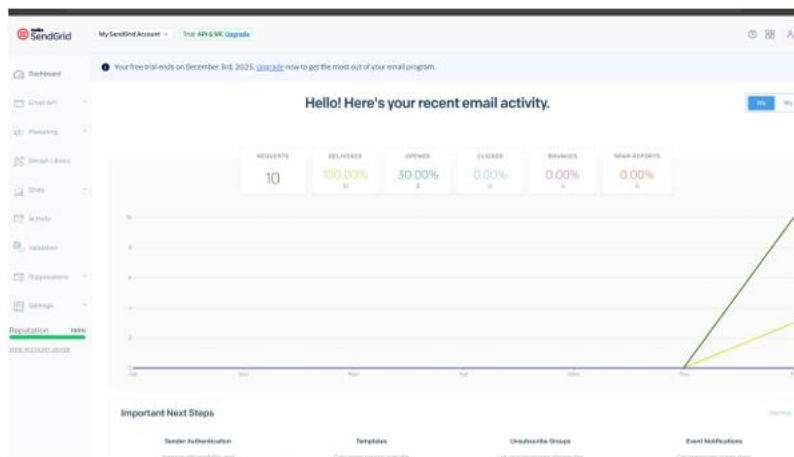
LangGraph Trace Summary:

- START TIME: 10/18/2025, 03:04:11 PM
- END TIME: 10/18/2025, 03:04:15 PM
- STATUS: Success
- TOTAL TOKENS: 1,517 tokens / \$0.0002559
- LATENCY: 4.96s
- TYPE: Chain

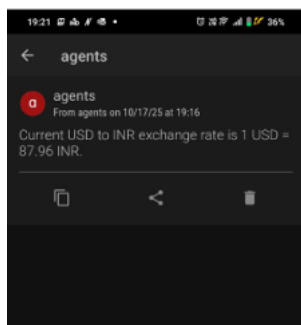
Also integrated with serper.dev for google search tool



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.