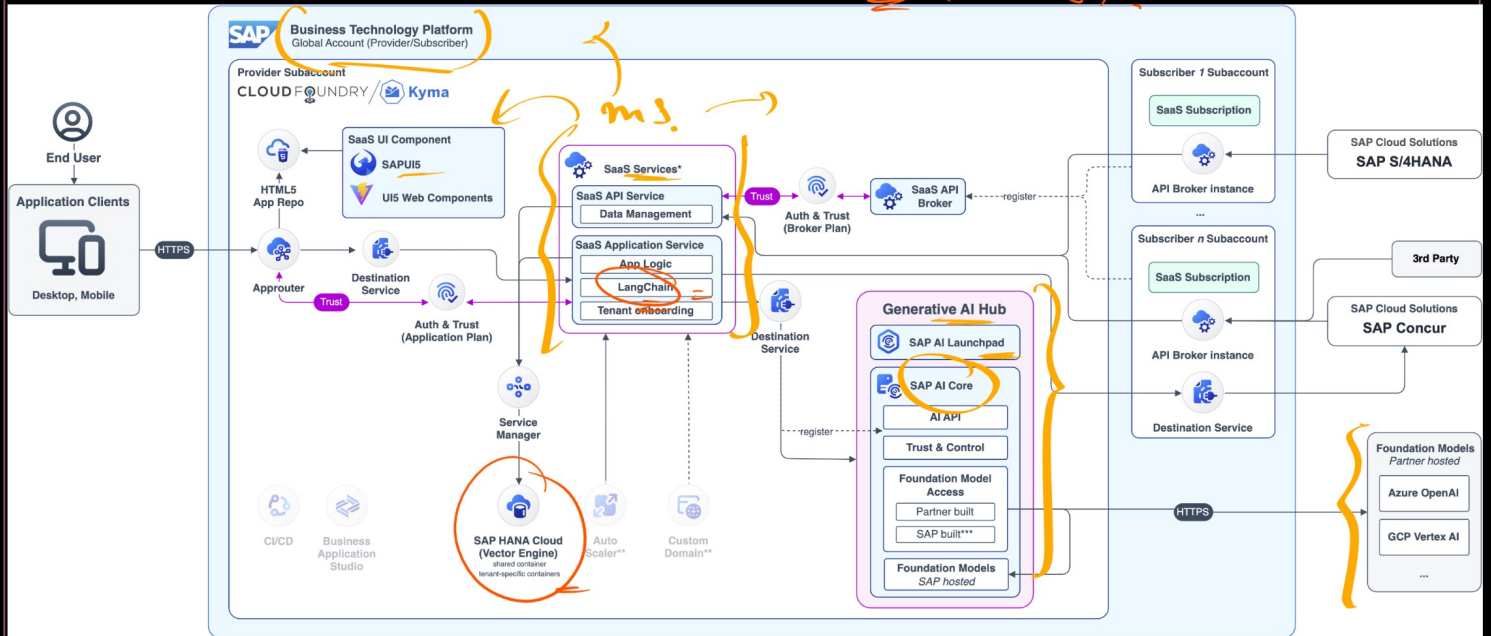
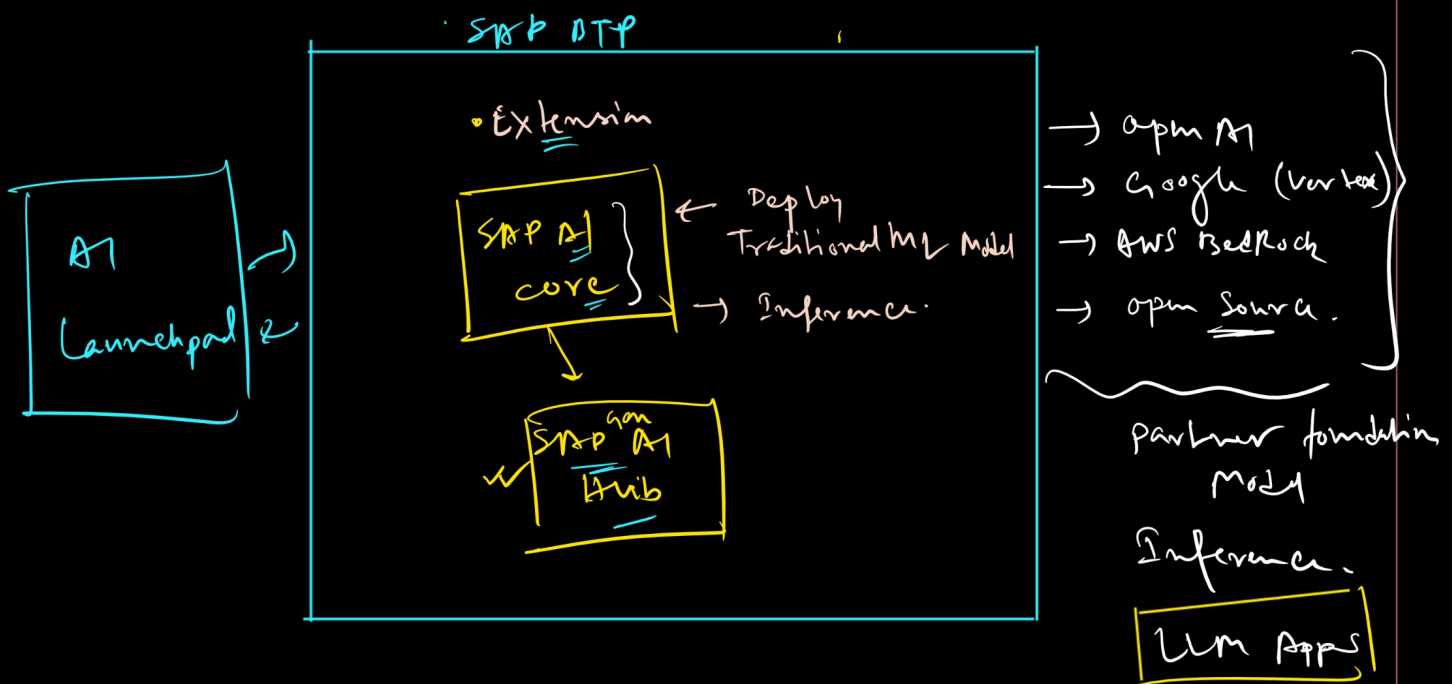
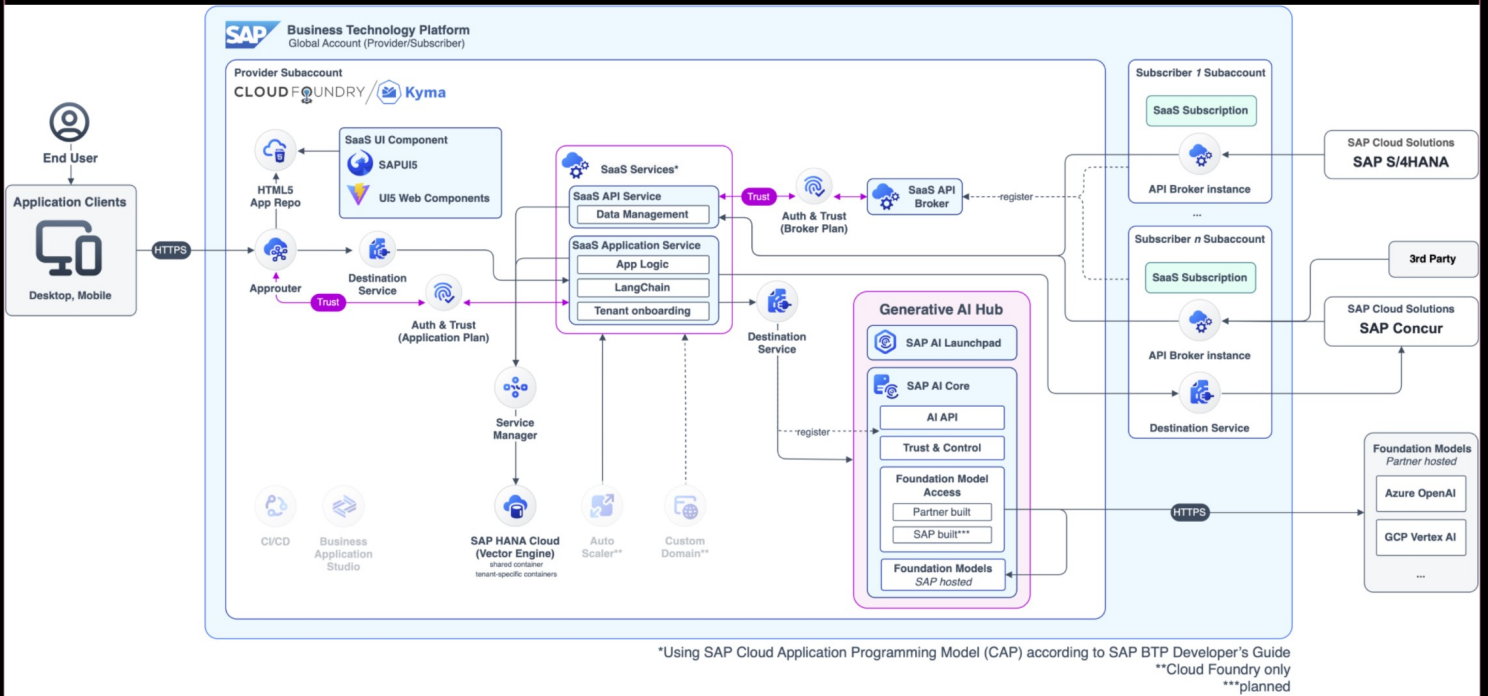


- Ø SAP GenAI Reference Architecture
- Ø SAP BTP GenAI Hub (Overview)
- Ø Build Chat application
- Ø Build SQL Agent application
- Ø RAG (Retrieval-Augmented Generation)
- Ø Build RAG Application  
using SAP GenAI Hub + HANA

CAPM (Nodes)

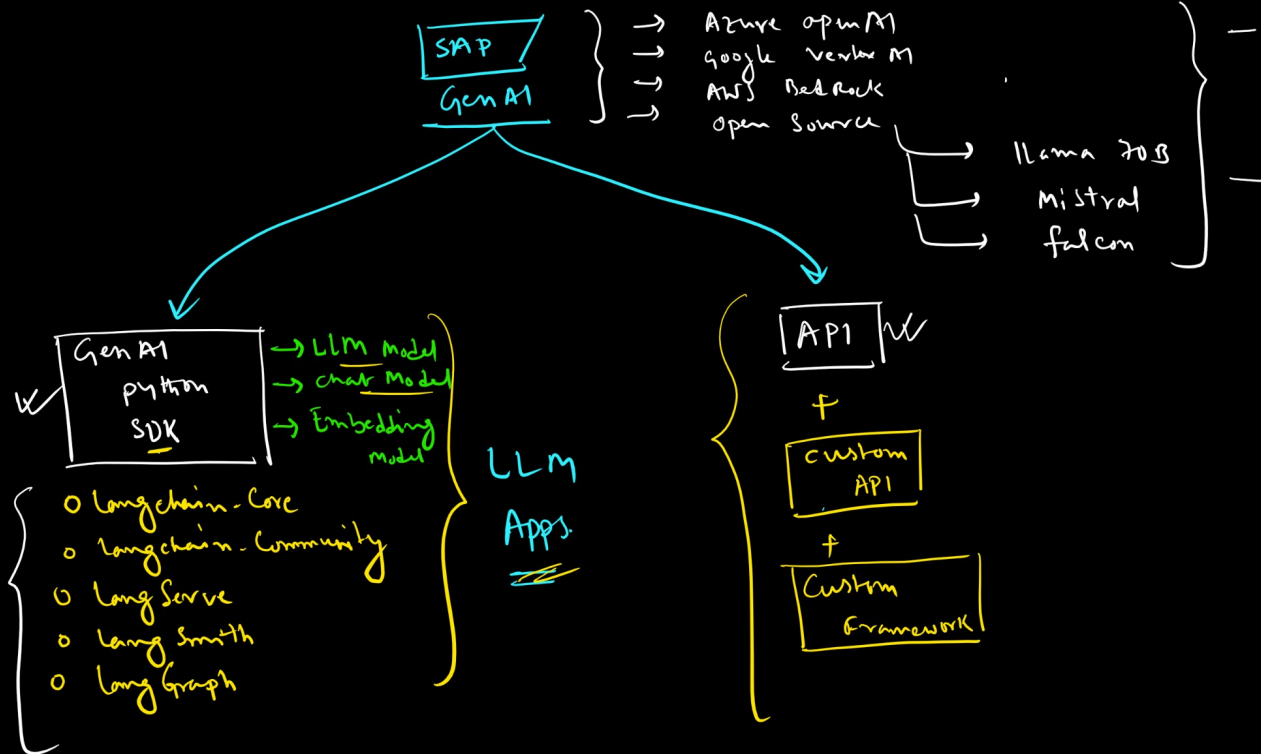


\*Using SAP Cloud Application Programming Model (CAP) according to SAP BTP Developer's Guide  
 \*\*Cloud Foundry only  
 \*\*\*planned

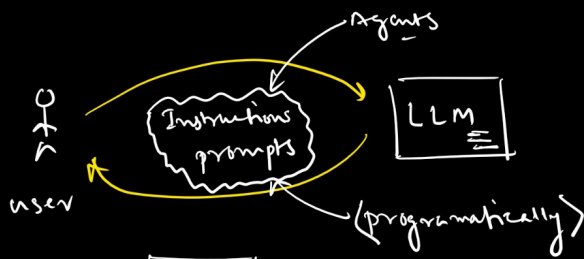


```
from gen_ai_hub.proxy.native.openai import
from gen_ai_hub.proxy.native.openai
from gen_ai_hub.proxy.langchain.init_models
from gen_ai_hub.proxy.langchain.openai
```

```
from langchain.chains import LLMChain
from langchain.prompts import PromptTemplate
```



<https://help.sap.com/docs/sap-ai-core/sap-ai-core-service-guide/consume-generative-ai-models-using-sap-ai-core>

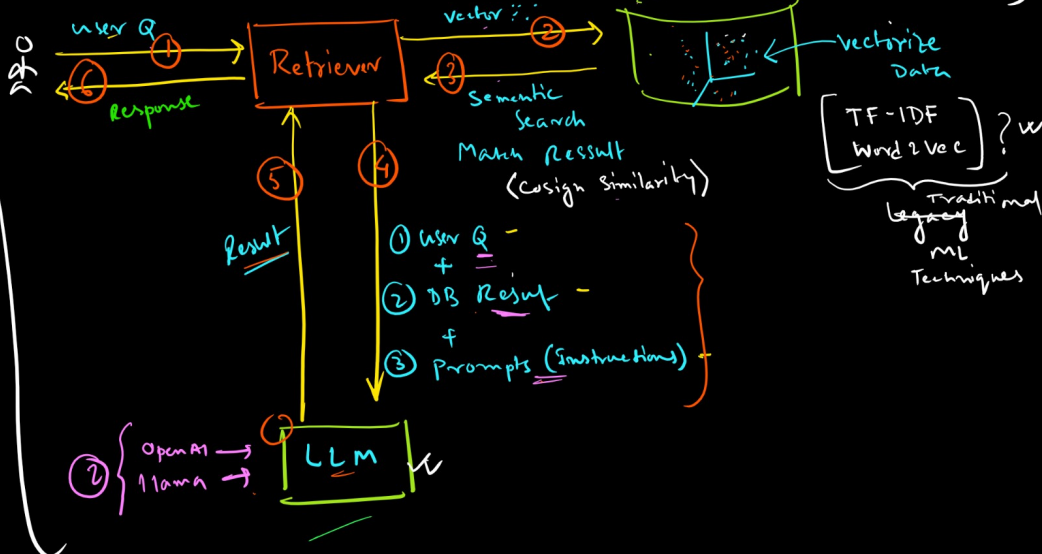


**RAG** → Retrieval Augmented Generation

③ langchain

① HANA Vector Engine  
pine cone  
Pg Vec Embedding

PDF  
text  
html  
word  
company policy



<https://www.pinecone.io/learn/vector-database/>

① → HANA cloud (BTP)

② → client ID / secret (gen M Hwls) ⇒

Chat Application (PDF - Text)

