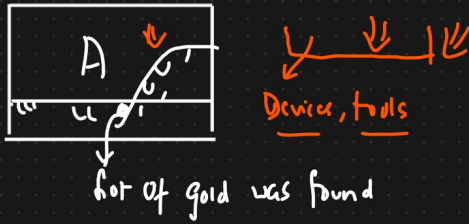


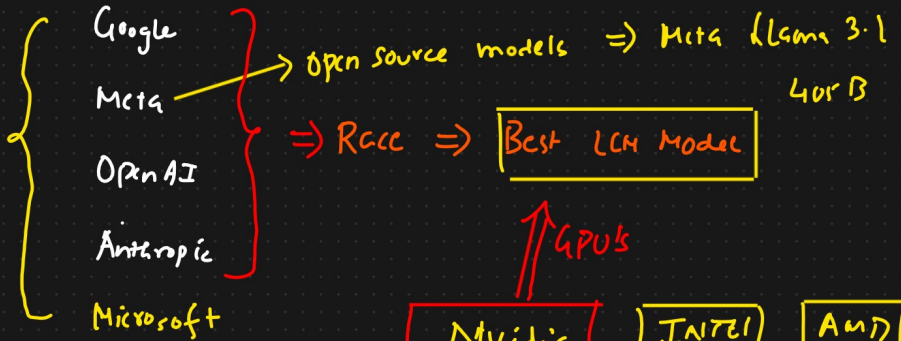
# Langgraph

① What is Langgraph [Langchain] → Open Source → LLM's ⇒ CHATBOT  
↳ Generic Prompt Template  
↳ Generative AI App



Gemini Pro, Llama 3.1, GPT-4o mini  
Phi3

## Big Tech Giants



Nvidia Intel AMD

Gen AI Application ⇒ RAG, Image Multimodal, Text Summarization, ChatBots



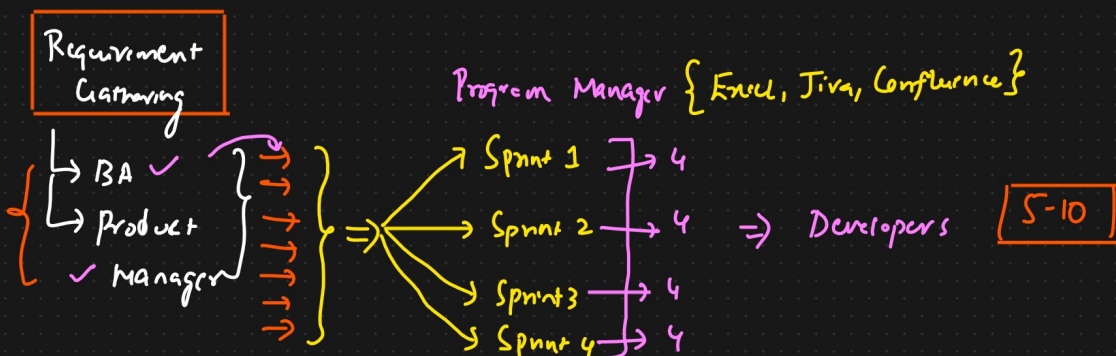
Common Framework ⇒ LLM ⇒ Techniques



Langchain ⇒ RAG →



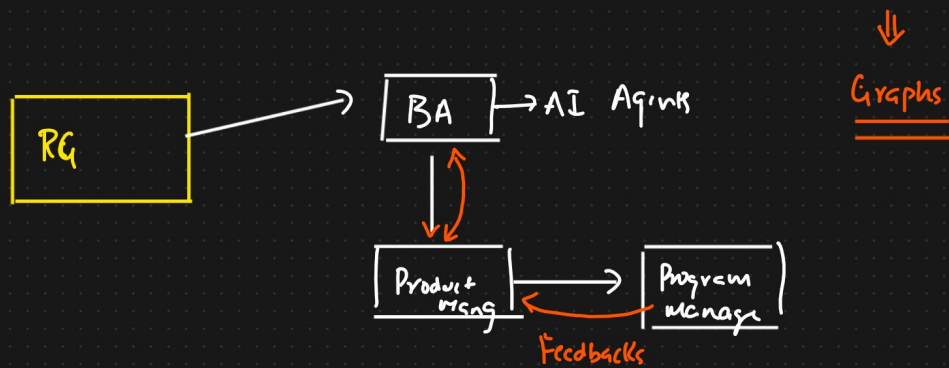
Project ⇒ Gen AI Project ⇒ Client



Agile

## Agents => AI Agents

You are building → Multi agent large language Model (LLM) App



## What is Langgraph

Langgraph enables us to create stateful, multi actor Application utilizing LLM as easily as possible.

Extends the capability of Langchain, introducing ability to create and manage cyclical graphs.

Eg: CrewAI {Multi Actor Agents}.

## Core Concepts

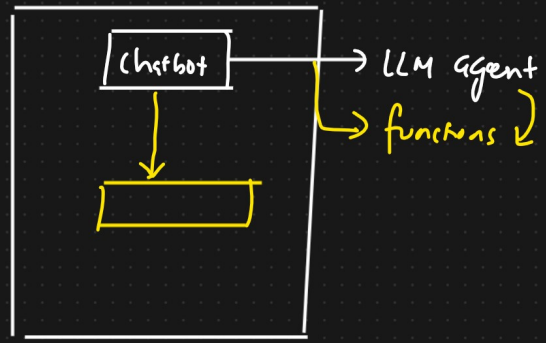
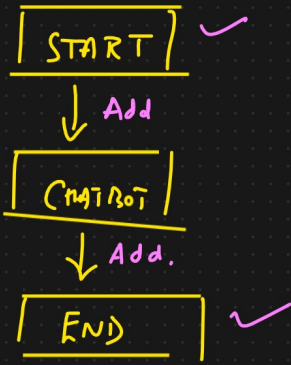
- ① Graph structure
- ② State Management ←
- ③ Coordination

① Graph Structure : In Langgraph each node represents an LLM agent, doing some task and the edges are the communication channel between agents.

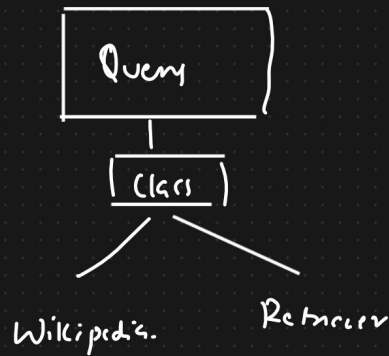
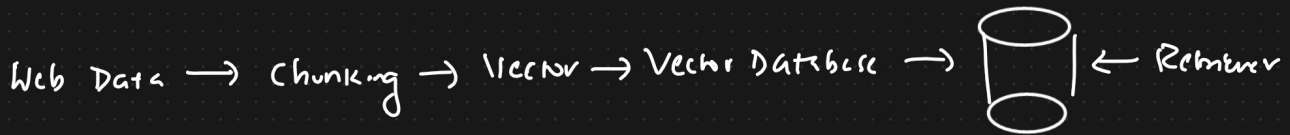
## ② State Management

One of LangGraph's standout features is its automatic state management. This feature enables us to track and persist information across multiple interactions. As agents perform their tasks, the state is dynamically updated, ensuring the system maintains context and responds appropriately to new inputs.

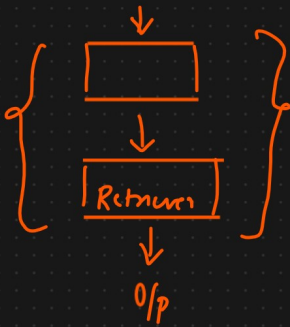
## STATE GRAPH



## Project Architecture



## RAY



=> Retriever  
=> Chatbot Retriever ( )