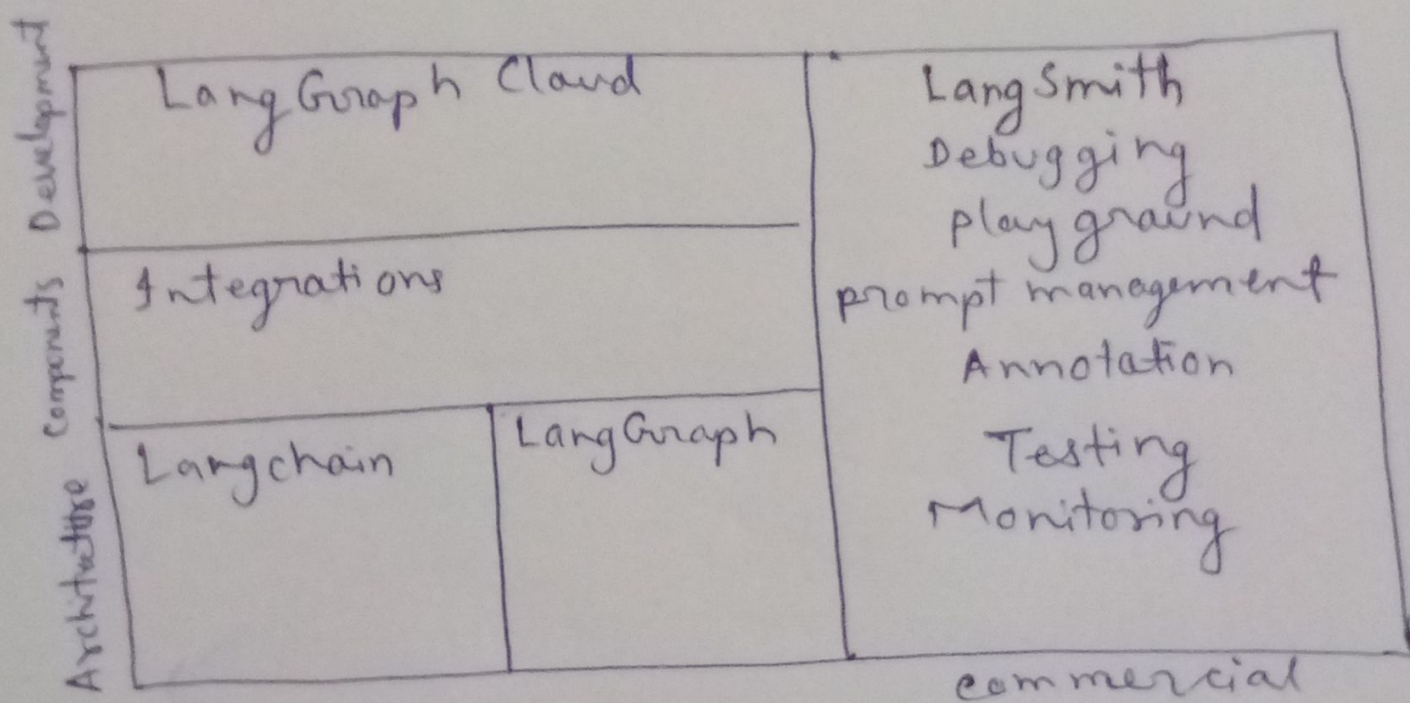


LANGCHAIN INTRODUCTION

What is Langchain?

- Langchain is an open-source software framework that integrates LLMs into domain specific applications
- Released in October 2022, langchain became popular in the industry and research for its easy to use interface it is designed to simplify the development, productionization and deployment of LLM-Powered applications.
- it has a set of building blocks for almost every stage of the LLM application lifecycle



1. langchain-core
base abstractions and langchain expression language (LCEL) for composing chains
2. langchain-community
Third party integrations and partner packages for extensibility such as langchain-openai, langchain-anthropic
3. langchain
chains, Agents and retrieval strategies for cognitive architecture

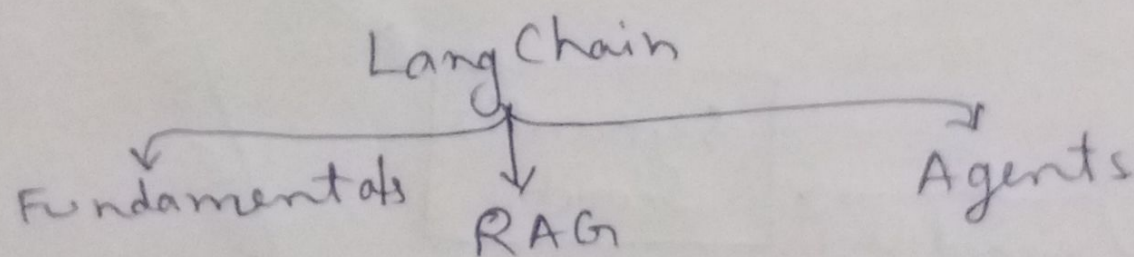
4. LangGraph:
multi-actor applications with LLMs by modeling
step as edges and nodes in a graph.
5. LangServer:
Deploy Langchain chain as REST APIs
6. LangSmith:
Platform to debug, test, evaluate and monitor
LLM applications.

01 Jan 2026

What is LangChain?

langchain is an open source framework that helps in building LLM based applications. it provides modular components and end-to-end tools that help developers build complex AI applications, such as chatbots, question-answering systems, retrieval-augmented generation (RAG), autonomous agents and more.

- Supports all major LLMs
- Simplifies developing LLM based applications
- Integrations available for all major tools
- Open Source / Free / Actively developed
- Supports all major GenAI use cases



Fundamentals

what is langchain, langchain components, models, Prompts, Parsing output, Runnable & LCEL, Chains, Memory

RAG

Document Loader, Text Splitters, Embeddings, Vector stores, Retrievers, Building a RAG Application

Agents

Tools & Toolkits, Tool Calling, Building an AI Agent