CMPE492 - Week 4

Zeynep Buse Aydın - Asım Dağ

Levels of autonomy in LLM applications



code



LLMs

HUMAN-DRIVEN



Code



Decide Output

of Step

Decide Which

Steps to Take



Decide What Steps

are Available to Take



LLM Call



A





Chain









Router







no cycles

AGENT-EXECUTED



State Machine





cycles



Autonomous

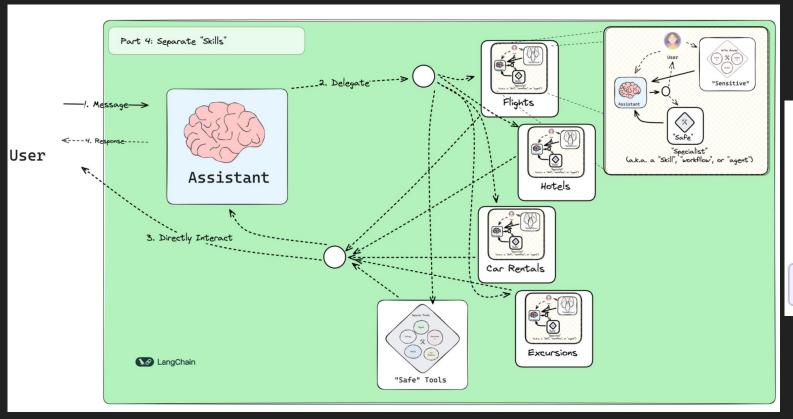


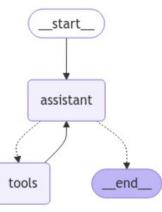
6



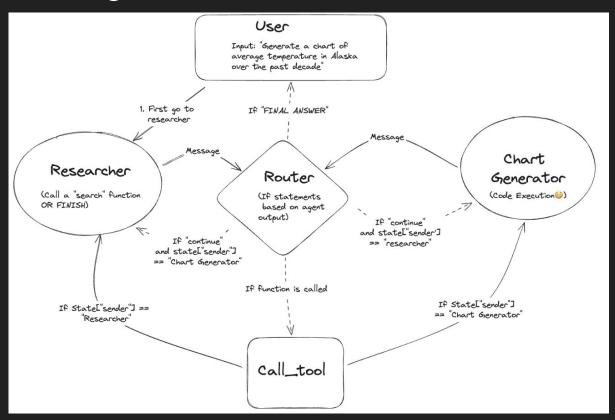


Chatbots - Customer Support *



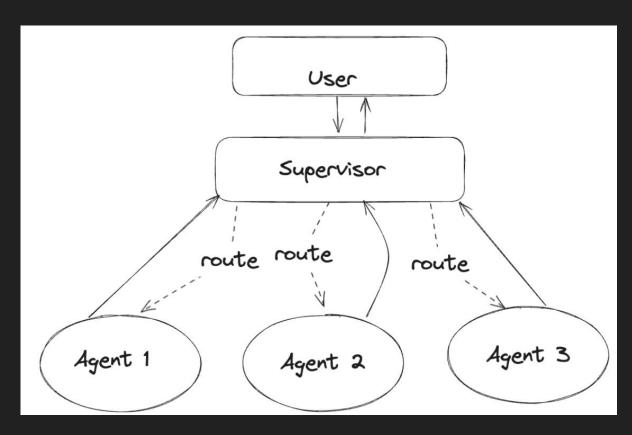


Multi-Agent Collaboration



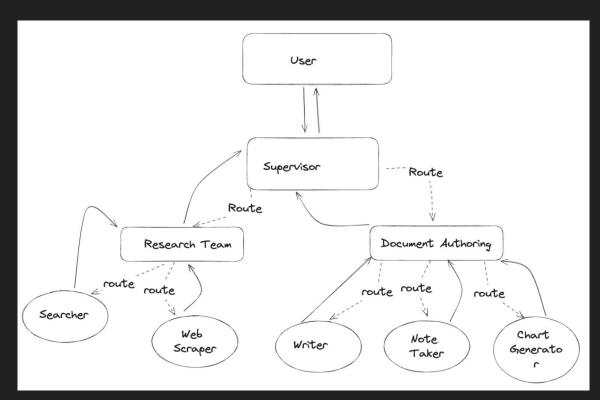
different agents collaborate on a shared scratchpad of messages

Agent Supervisor



- The agents have their own independent scratchpads
- In this case, the independent agents are a LangGraph ReAct agent (graph). This means they have their own individual prompt, LLM, and tools.

Hierarchical Agent Teams



additional level of subgraphs and creating a top-level supervisor, along with mid-level supervisors

