



# Exploring LangGraph

Austin LangChain Users Group



# Presentation source

[https://github.com/colinmcnamara/austin\\_langchain/blob/main/resources/presentations/Austin%20LangChain%202-21-2024%20-%20LangGraph.pdf](https://github.com/colinmcnamara/austin_langchain/blob/main/resources/presentations/Austin%20LangChain%202-21-2024%20-%20LangGraph.pdf)



# Agenda

- Welcome Message
- News & Announcements
- Labs using LangGraph!
  - Agent Supervisor
  - Multi-Agent Collaboration
  - LangGraph RAG Agent with Ollama & SurrealDB
  - LLM Manufacturing BOM Analyser - in progress troubleshooting



# Welcome - Austin LangChain

- Local Austin LangChain User Group
    - Discord - <https://discord.gg/fjQfpwcsZX>
    - Github - [https://github.com/colinmcnamara/austin\\_langchain](https://github.com/colinmcnamara/austin_langchain)
    - Meetup - <https://www.meetup.com/austin-lanchain-ai-group/>
    - Twitter - [@AustinLangChain](https://twitter.com/AustinLangChain)
    - Youtube - <https://www.youtube.com/@AustinLangChain>
  - Monthly in person meetings & workshops
  - Monthly virtual meetings
  - Low stress, learning and sharing
  - Connect with other early adopters
  - Learn, Share, Grow
- 
- CoC - **Be cool** to each other, no gross behavior



# Thanks to our Supporters

**Amini & Conant** - Meeting Space

**KeyChange** - Food & Beverage

**Always Cool Brands** - Sessions Platform

**Contributors** - code, content, community



# News and Announcements

- Hacky Hour - 6pm Wed Feb 28 @ Central Machine Works  
<https://www.meetup.com/austin-langchain-ai-group/events/299335712/>
- RAG + Google drive posted -  
<https://www.youtube.com/watch?v=ZQnOEPArlcl&t=6047s>
- Sora text to video preview released <https://openai.com/sora>
- LangSmith general availability <https://blog.langchain.dev/langsmith-ga/>





# Call for Papers

- Present your work!
- Learn together!
- Improve on an introduced concept!
- Post your idea on our discord!



# Want to review our last meeting?

<https://www.youtube.com/watch?v=ZQnOEPArlcl&t=6047s>



## Gdrive your RAG

Austin LangChain Users Group



0:22 / 1:59:40





# Explore LangGraph - LangGraph Labs

- Agent Supervisor
- Multi-Agent Collaboration
- LangGraph RAG Agent with Ollama & SurrealDB
- LLM Manufacturing BOM Analyser - in progress troubleshooting

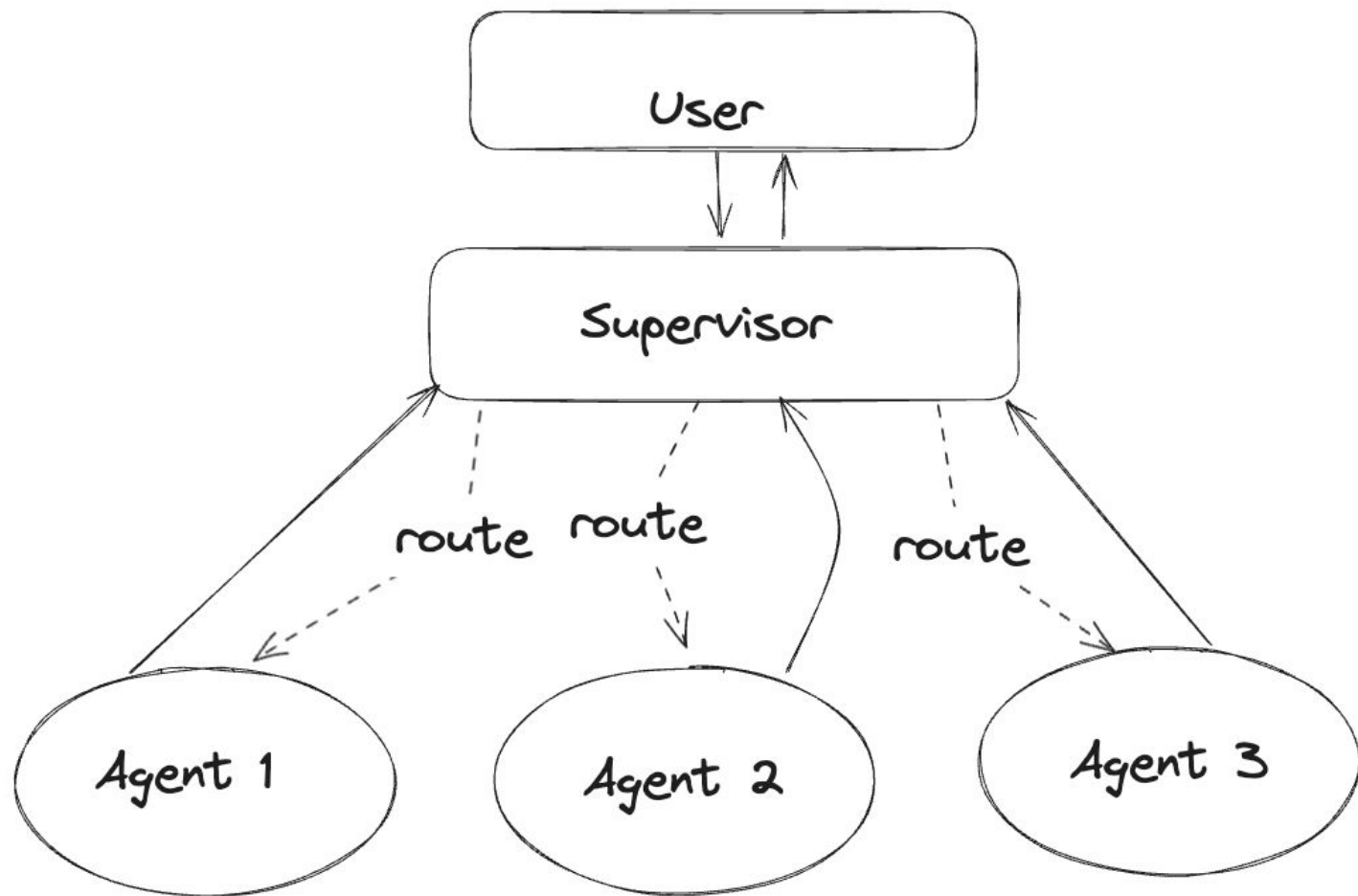


# Lab1 - Agent Supervisor

Colin McNamara

- Required: Google Colab
- Repo: [https://github.com/colinmcnamara/austin\\_langchain/](https://github.com/colinmcnamara/austin_langchain/)
- Notebook:  
[https://colab.research.google.com/github/colinmcnamara/austin\\_langchain/blob/main/labs/LangChain\\_104/LangGraph\\_Introduction/notebooks/agent\\_supervisor.ipynb](https://colab.research.google.com/github/colinmcnamara/austin_langchain/blob/main/labs/LangChain_104/LangGraph_Introduction/notebooks/agent_supervisor.ipynb)



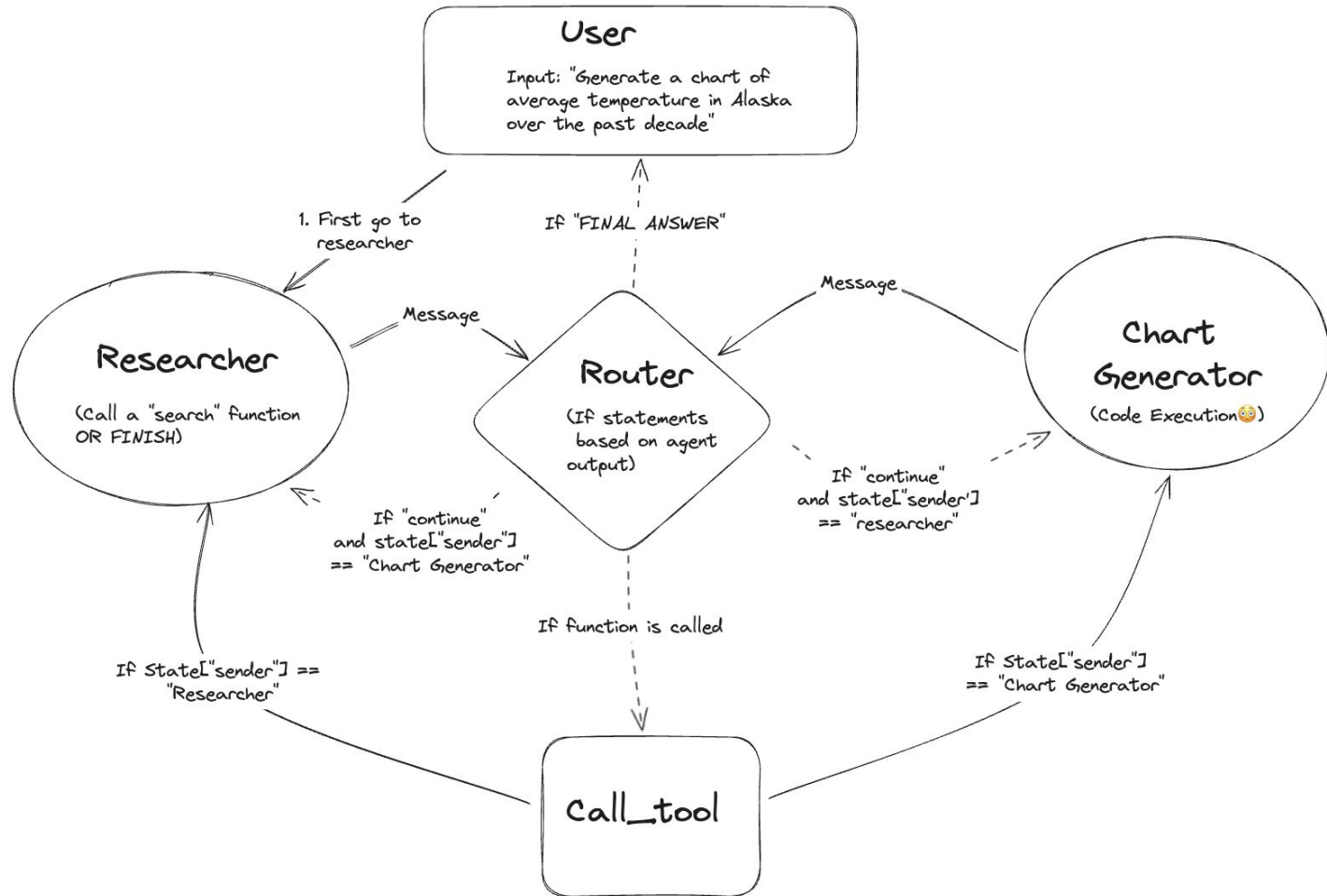


# Lab2 - Multi-Agent Collaboration

Colin McNamara

- Required: Google Colab
- Repo: [https://github.com/colinmcnamara/austin\\_langchain/](https://github.com/colinmcnamara/austin_langchain/)
- Notebook:  
[https://colab.research.google.com/github/colinmcnamara/austin\\_langchain/blob/main/labs/LangChain\\_104/LangGraph\\_Introduction/notebooks/multi-agent-collaboration.ipynb](https://colab.research.google.com/github/colinmcnamara/austin_langchain/blob/main/labs/LangChain_104/LangGraph_Introduction/notebooks/multi-agent-collaboration.ipynb)





# Lab - LangGraph RAG agent w/ Ollama And SurrealDB

Karim Lalani

- Required: Google Colab
- Repo: [https://github.com/colinmcnamara/austin\\_langchain/](https://github.com/colinmcnamara/austin_langchain/)
- Notebook:  
[https://github.com/colinmcnamara/austin\\_langchain/blob/main/labs/LangChain\\_104/104-langgraph-rag-agent.ipynb](https://github.com/colinmcnamara/austin_langchain/blob/main/labs/LangChain_104/104-langgraph-rag-agent.ipynb)

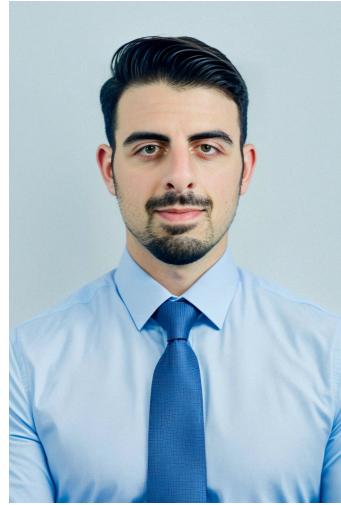




# LAB - Manufacturing BOM Analysis - in progress

Ricky Pirruccio

- Required: Docker on your computer
- Repo: [https://github.com/colinmcnamara/austin\\_langchain/](https://github.com/colinmcnamara/austin_langchain/)
- Folder: [https://github.com/colinmcnamara/austin\\_langchain/tree/main/labs/LangChain\\_104/LangGraph\\_LLM\\_Manufacturing\\_BOM\\_Analyser](https://github.com/colinmcnamara/austin_langchain/tree/main/labs/LangChain_104/LangGraph_LLM_Manufacturing_BOM_Analyser)



# Thank you - Please Join

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  - Github - [https://github.com/colinmcnamara/austin\\_langchain](https://github.com/colinmcnamara/austin_langchain)
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