Agent Workflow Creation

You're AI professionals building document organization tools for your companies. Today, you'll use FlowWise to create an Agentic Retrieval Augmented Generation (RAG) workflow for your specific domain, building on the tutorial from yesterday.

At the end of the session, you'll present your workflow to the group.

Domains:

- Workplace Helper: Build an assistant that answers questions about company policies

- Cooking and Nutrition: Create a workflow that answers questions about cuisines and cooking techniques

- Tech Support: Pick a set of products and build an assistant that answers technical questions using product documentation

- Exercise and Wellness: Create a RAG that answers questions about working out, wellness, sports, and fitness

- Tourism: Pick a country and build an assistant that answers questions about cities and tourist sites

- Finance Bot: Create a RAG agent that parses financial documents from public companies to help traders and investors understand the business

Guidelines and Requirements

Testing

- Before building RAG: Test 3-4 prompts on a basic chatbot and record the responses
- After building RAG: Test the same prompts and note how the answers improve
- Look for: accuracy, relevance, and whether the model uses your documents

Workflow Requirements

- Use at least 3 different document stores, each for a different topic
- Example for Tourism: One store for restaurants, one for hotels, one for attractions
- Include at least one Condition Agent and one general answer agent
- The Condition Agent routes questions to the right document store
- The general answer agent handles questions that don't need RAG
- Add self-correction for RAG queries using a loop (like yesterday's tutorial)
  - This checks if the retrieved document is relevant before answering
- Maximum 5 loops to prevent infinite searching

Data

- Keep documents short but relevant
- Use publicly available, non-copyrighted information
- Good sources: Wikipedia, government websites, open documentation
- Start with 2-3 documents per store

Presentation (2 minutes)

Show your workflow diagram in Flowise

Demonstrate 2 live queries: one that uses RAG, one that doesn't need it

Share one thing that worked well and one challenge you faced

Discussion Questions:

Throughout the development process, keep these questions in mind:

- How did responses improve after adding RAG? What changed?
- Were there cases where adding documents didn't help or made things worse?
- Did you modify your system prompts? What changes made the biggest difference?
- Did the self-correction loop improve responses, or did it just repeat the same answer?
- Did answers feel factual and grounded in your documents, or did the model still hallucinate?
- How easy was it to find good data for your system?
- What data challenges could you face scaling this up to production?