

MASTERING LLM
PRESENTS:
COFFEE BREAK
CONCEPTS



Mastering LLM
Learning at the Speed of Thought



Common Agentic Workflow Patterns



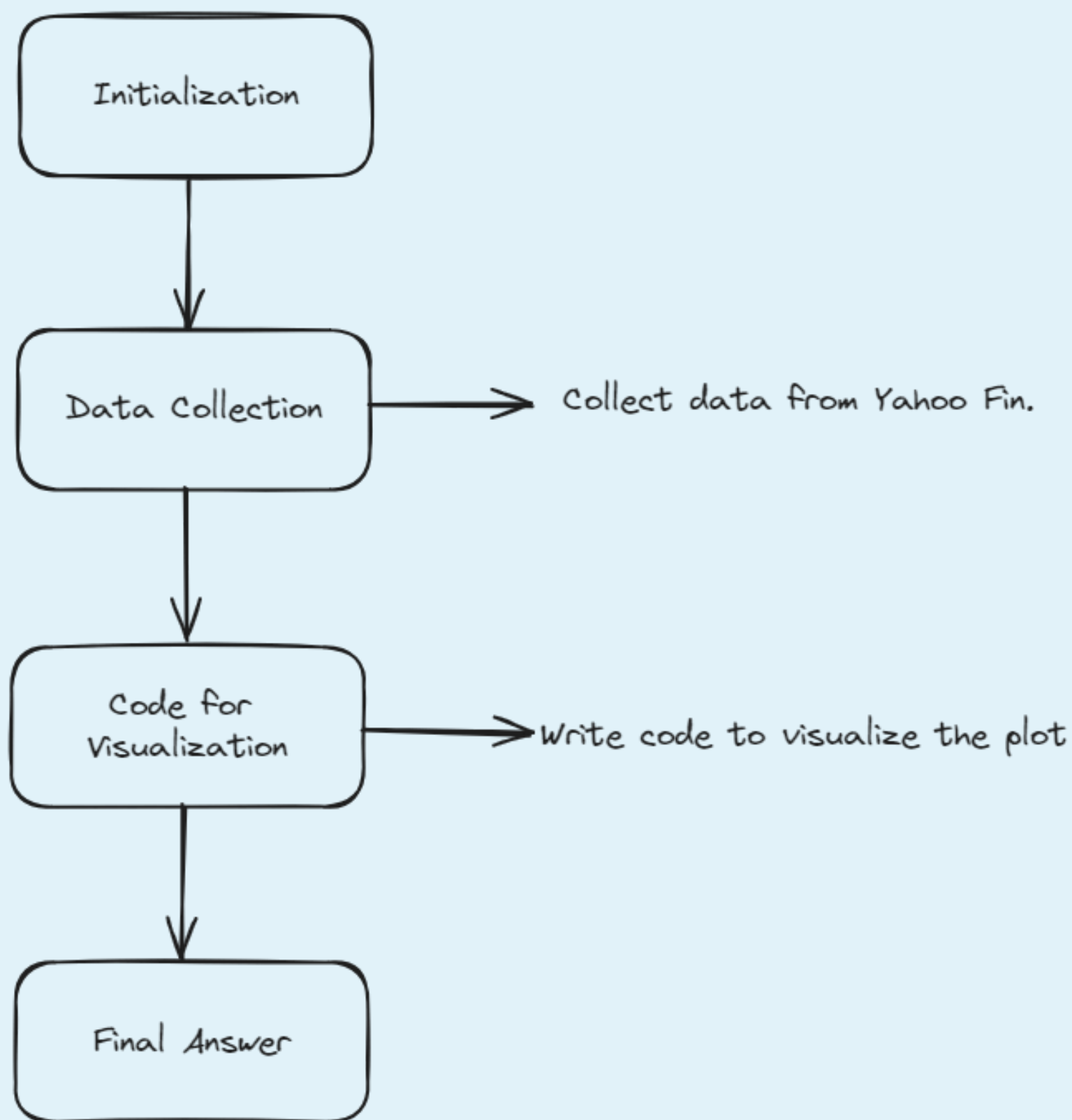
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LARGE-LANGUAGE-
MODEL



Serial Workflow

- In a serial workflow, tasks are executed one after the other in a specific order.
- This means that each task is dependent on the completion of the previous task
- There is no overlap between tasks, which makes the workflow easy to understand and manage.

Visualizing Stock Data with Python



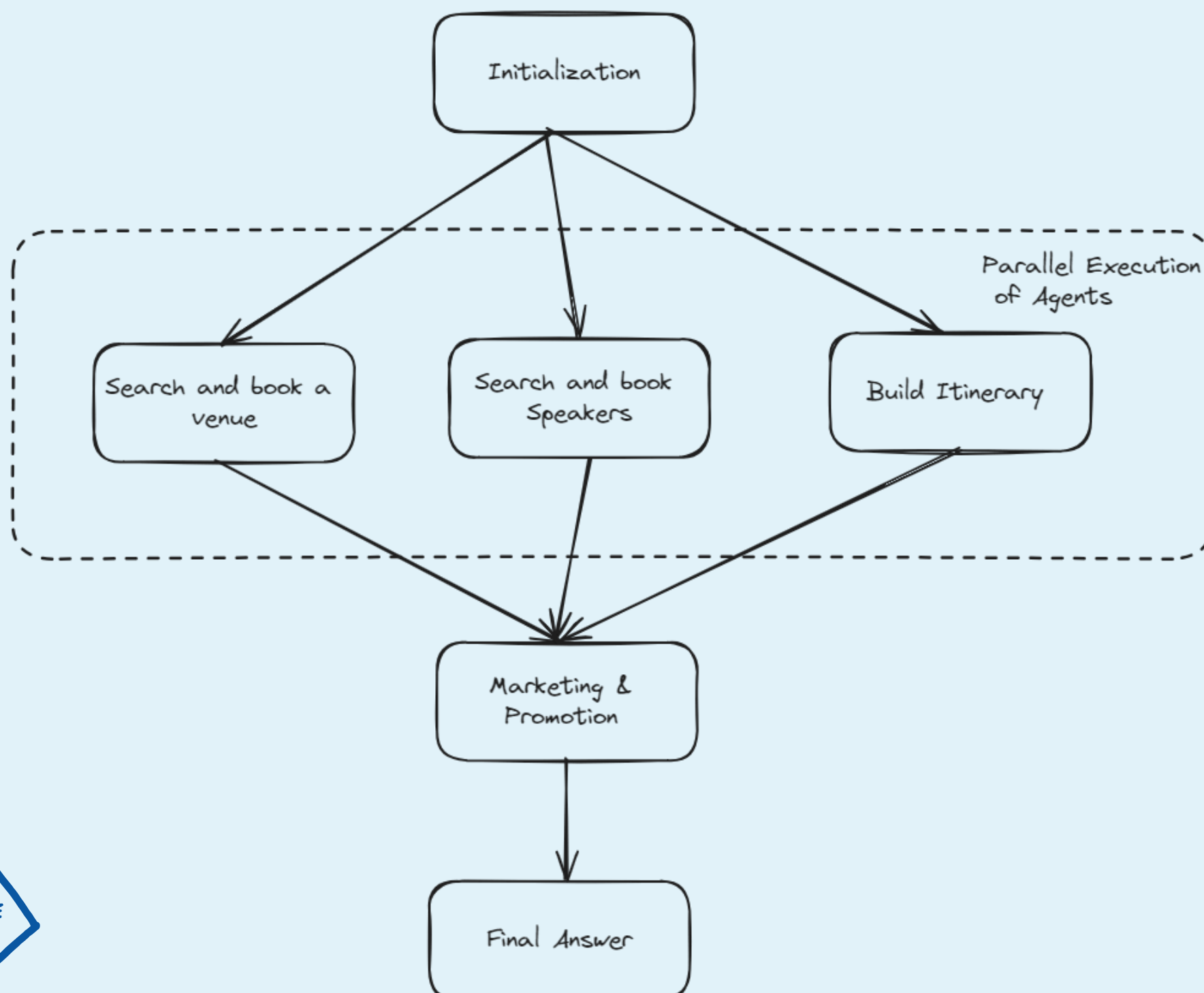
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Hierarchical Workflow

- In hierarchical workflow, tasks are organized in a tree-like structure, where each task can have multiple subtasks.
- The control flow in a hierarchical workflow moves from the top (root task) to the bottom (leaf tasks), following the hierarchy
- This allows for clear organization and management of tasks, but also requires careful handling of dependencies and error propagation

Organizing a Conference using AI



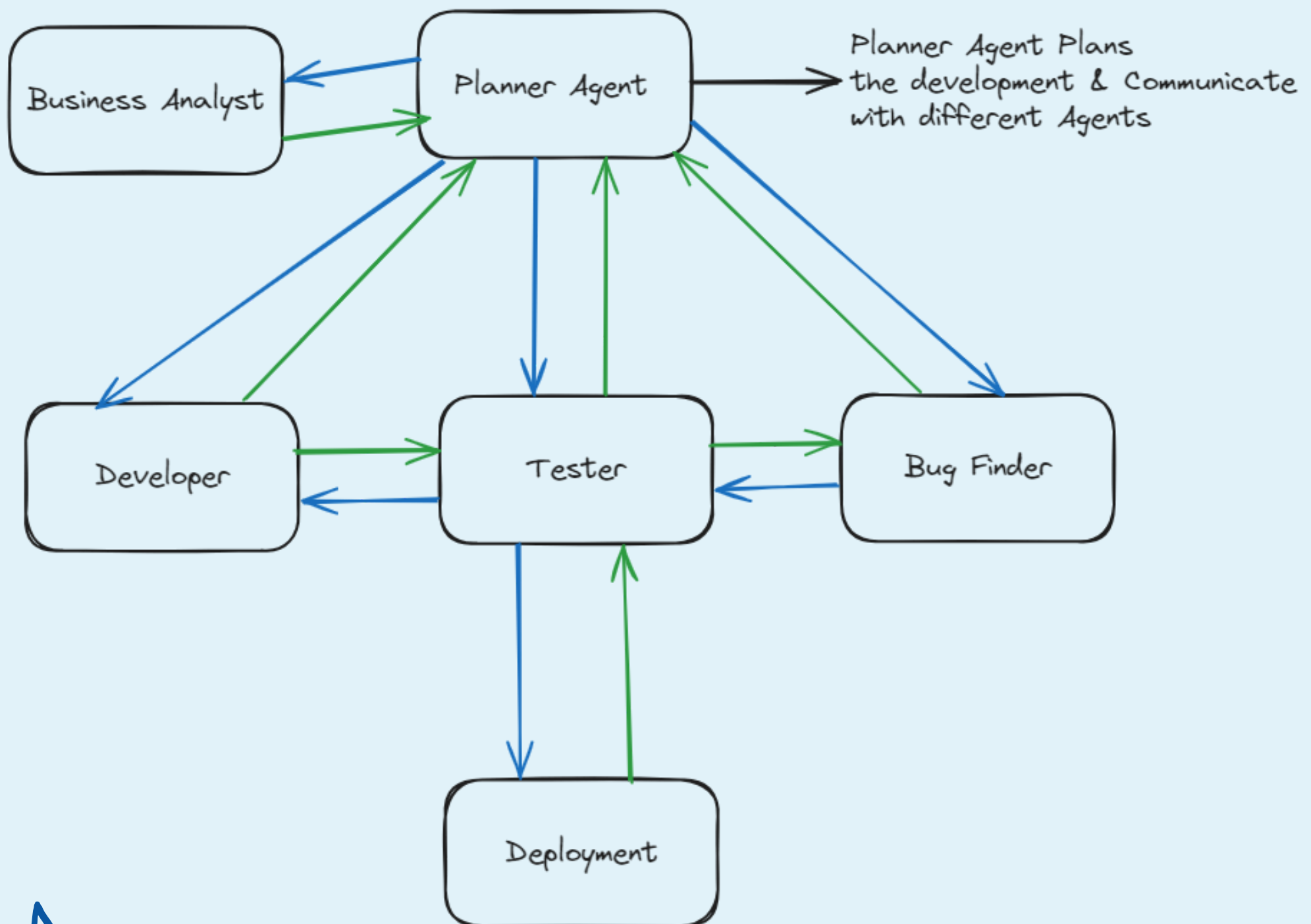
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State Machine Workflows

- An initial state is defined, and the process moves from one state to another based on triggers or conditions, until it reaches a final state.
- State machine workflows are highly flexible and can handle complex processes with many possible paths.
- They are particularly useful when the order of the tasks can change dynamically based on conditions or events.

Software Development using AI



There is no defined path, agents can communicate with each other based on requirements

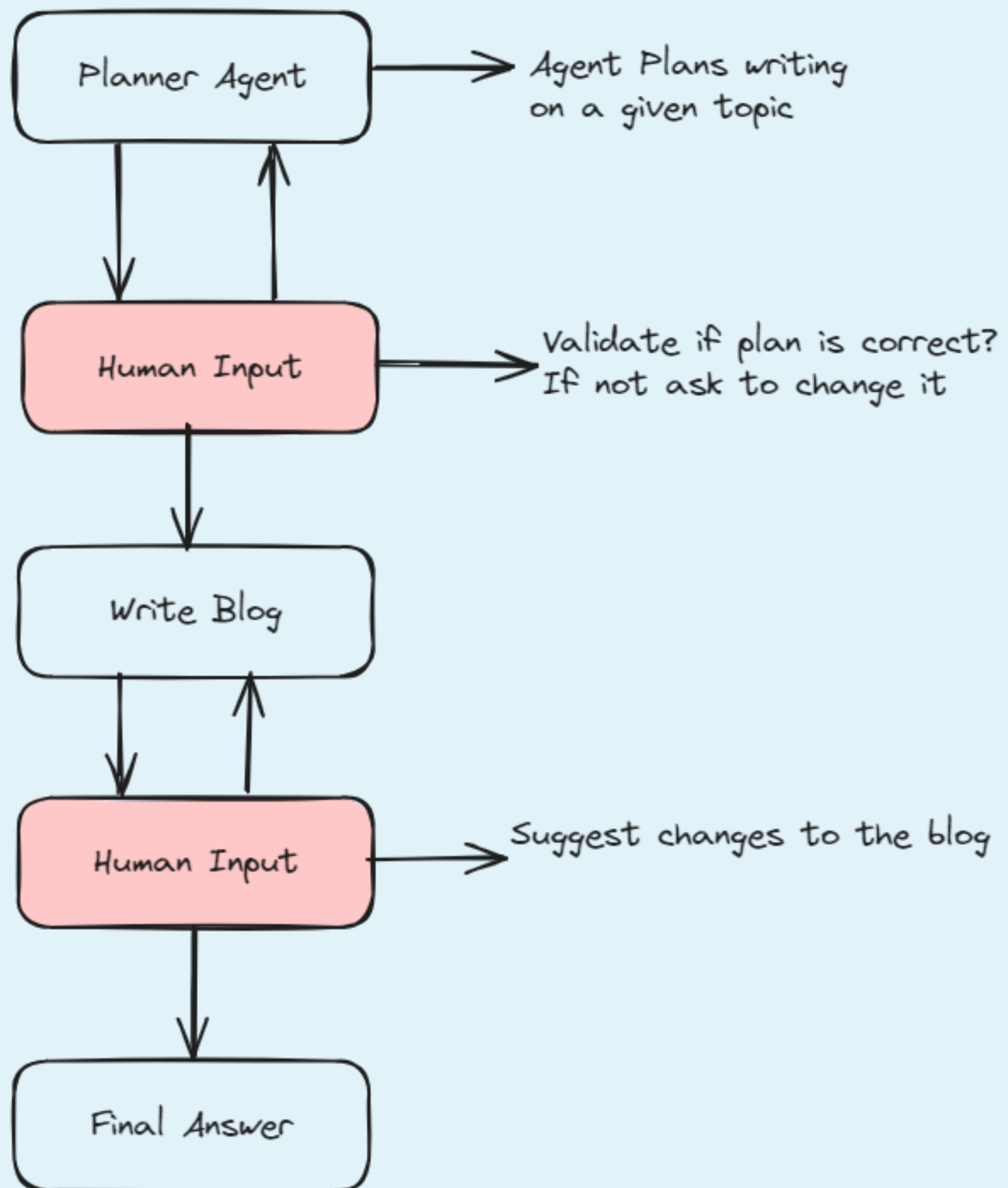
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Human Centric Workflows

- Tasks which often involve tasks that require human judgment, decision-making, or physical action.
- These workflows are flexible and can adapt to changes in the work environment or task requirements.

Blog Writing with human assistance

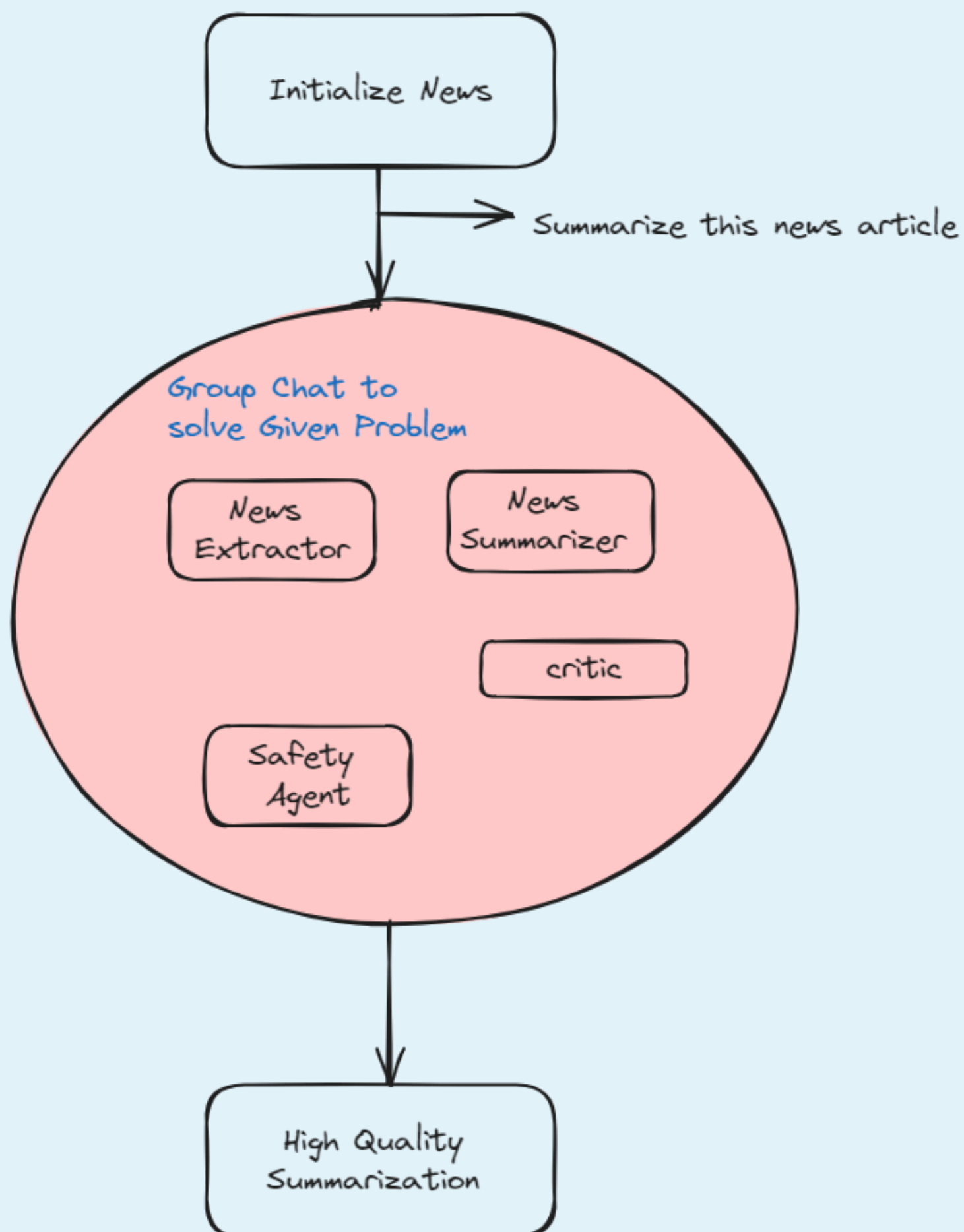


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Group Chat Workflows

- Group chat or multi-agent conversation workflows facilitate real-time collaboration among multiple agents.
 - With multiple capable agents, one can easily make them collectively perform tasks autonomously or with human feedback.
- News Article summarization*



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Summary

- ✓ ☒ Agentic workflows were found to outperform the normal prompting method.
- ✓ ☒ Specialized agents can perform specific tasks, this is another way to split long prompts into small specific agents.
- ✓ ☒ You can place these agents in many different architectures to outperform on a given task.
- ✓ ☒ Agents can access many tools like website search, RAG, Scrapping etc.
- ✓ ☒ There are multiple frameworks available like CrewAI, AutoGen to implement these architectures



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