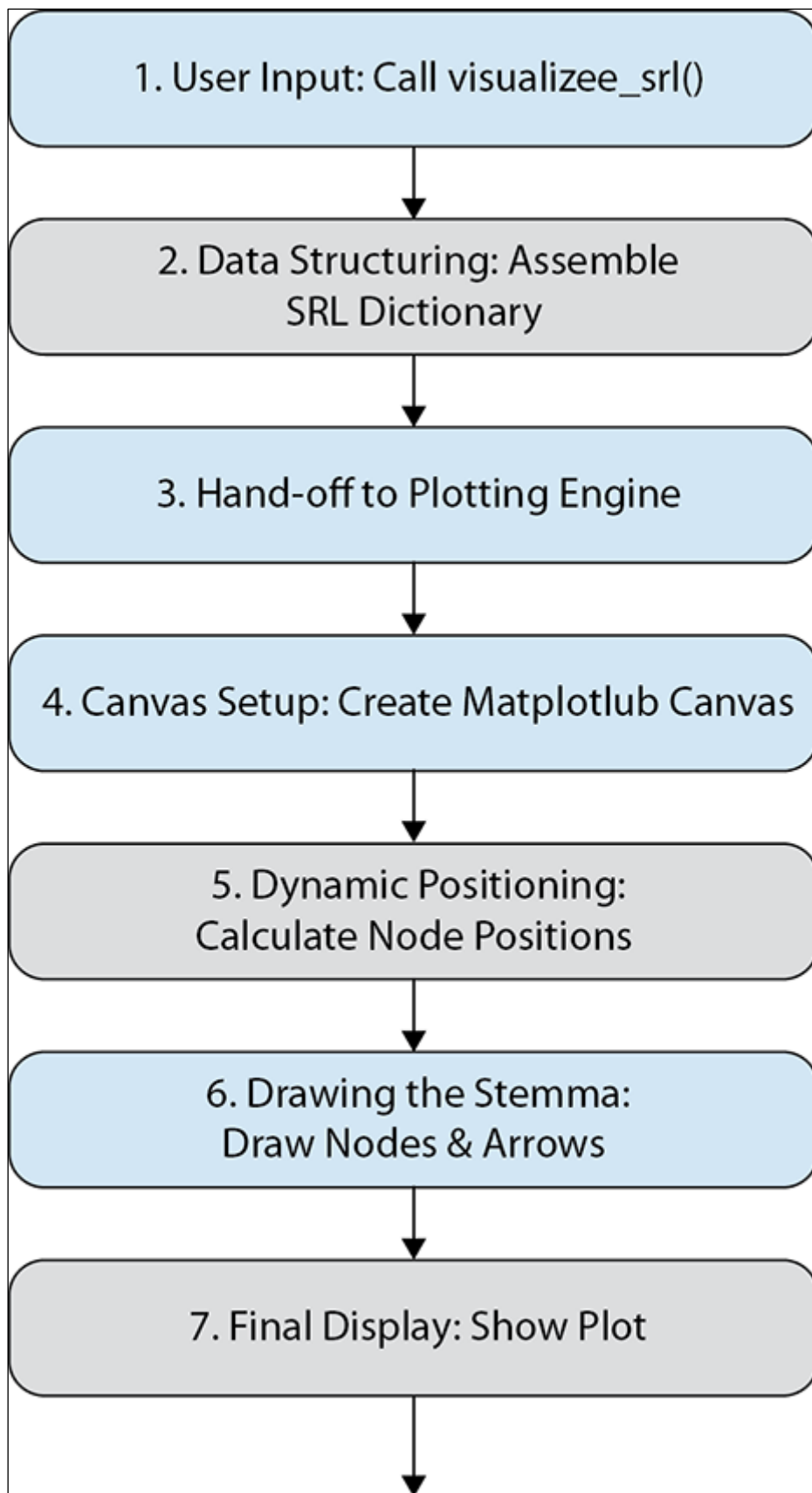
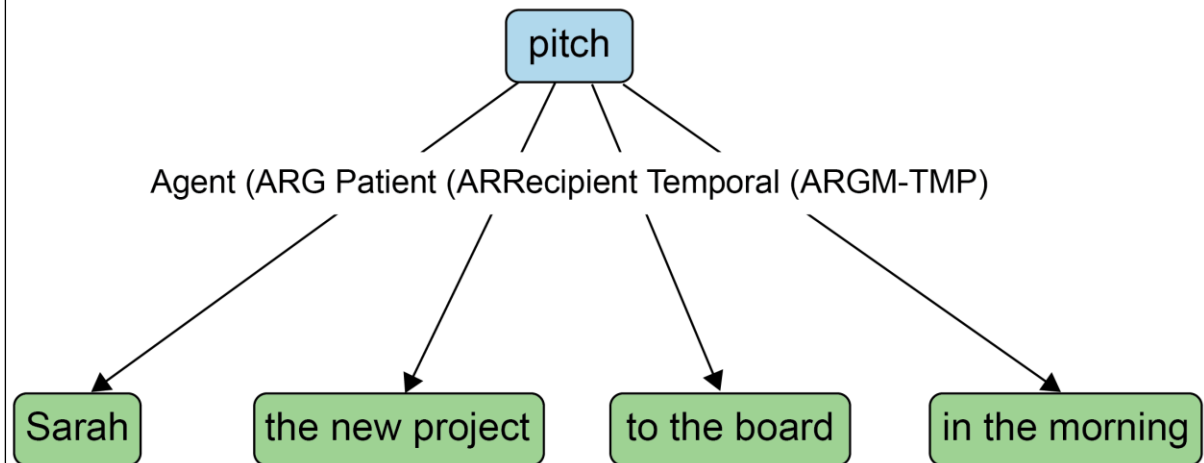


Chapter 1: From Prompts to Context: Building the Semantic Blueprint

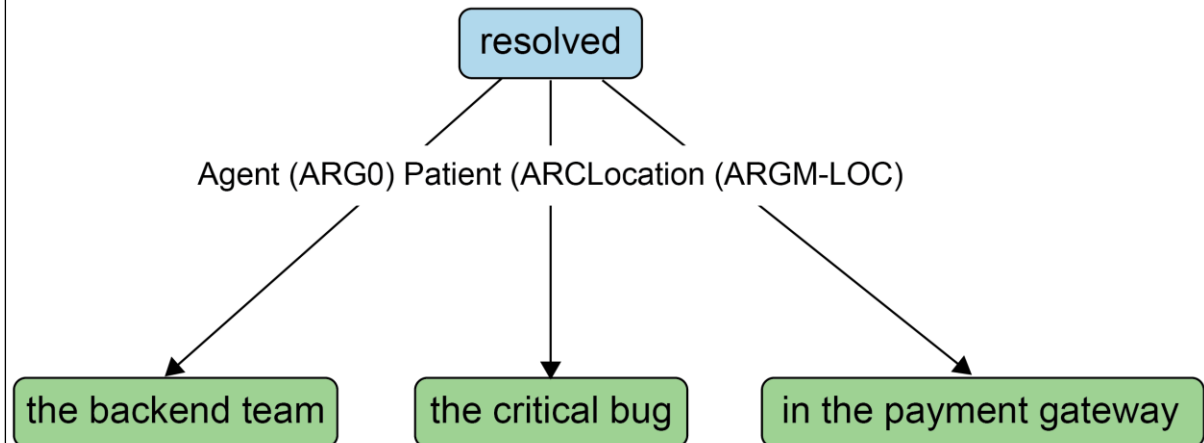




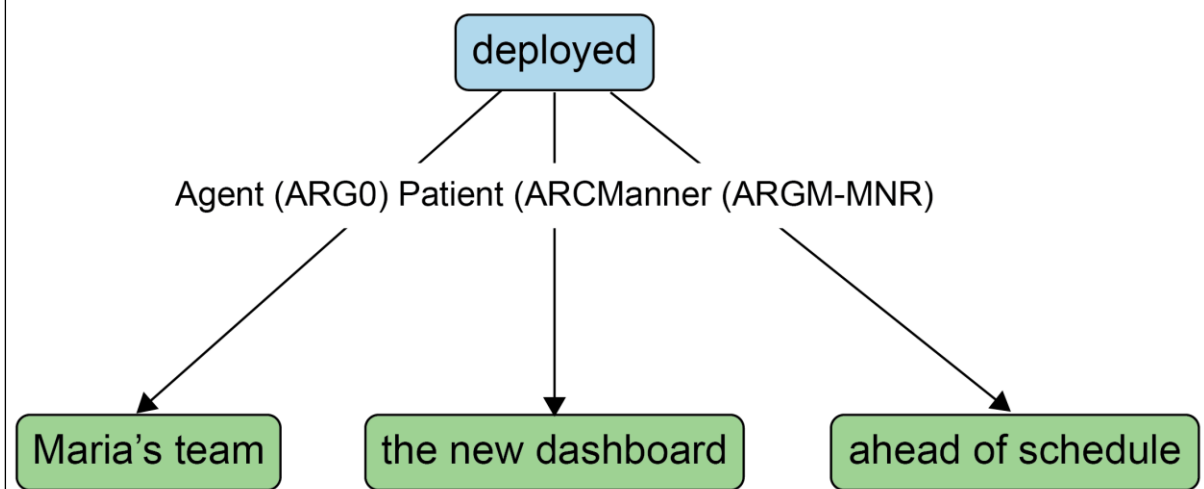
The Semantic Blueprint (Stemma Visualization)



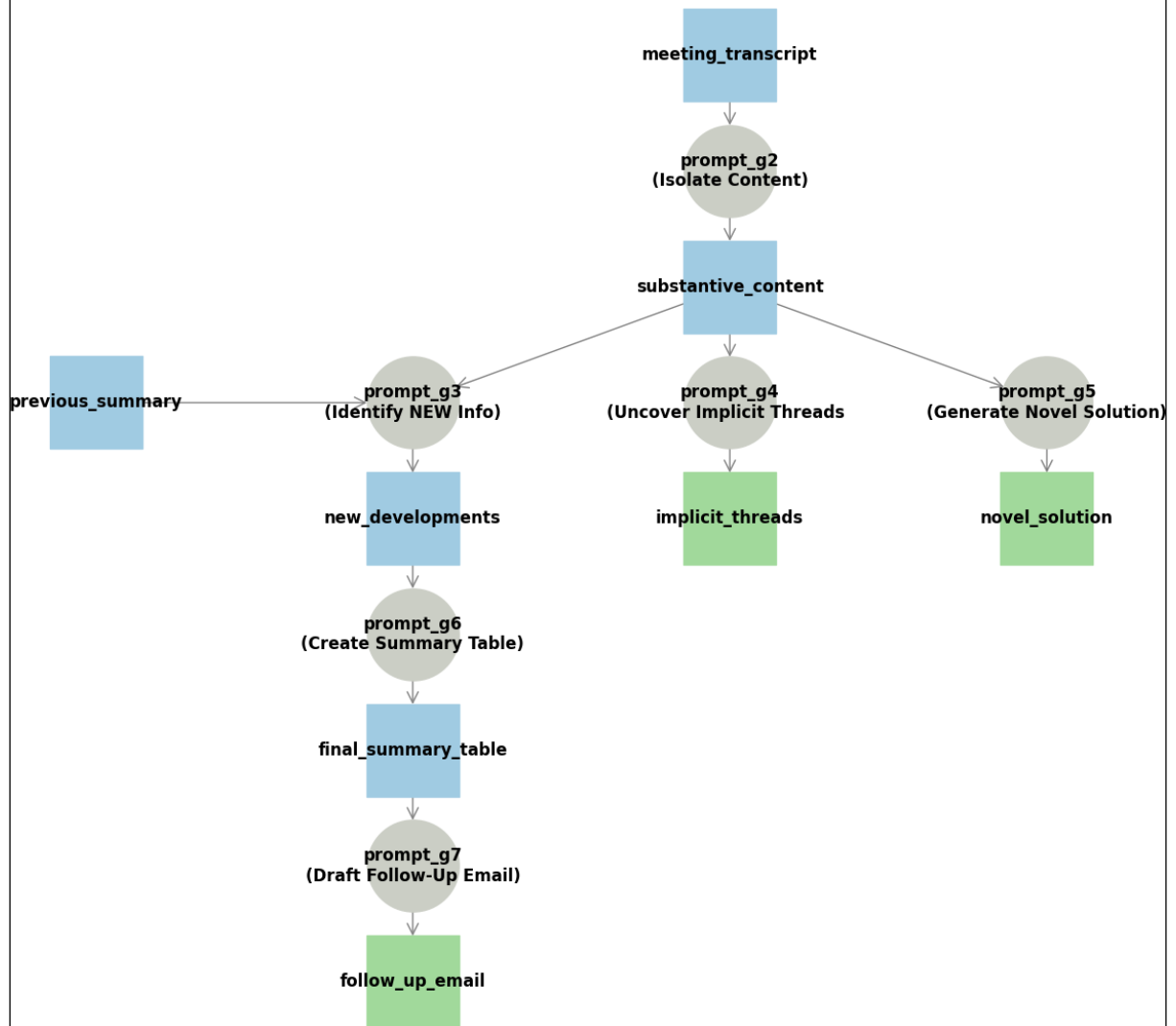
The Semantic Blueprint (Stemma Visualization)



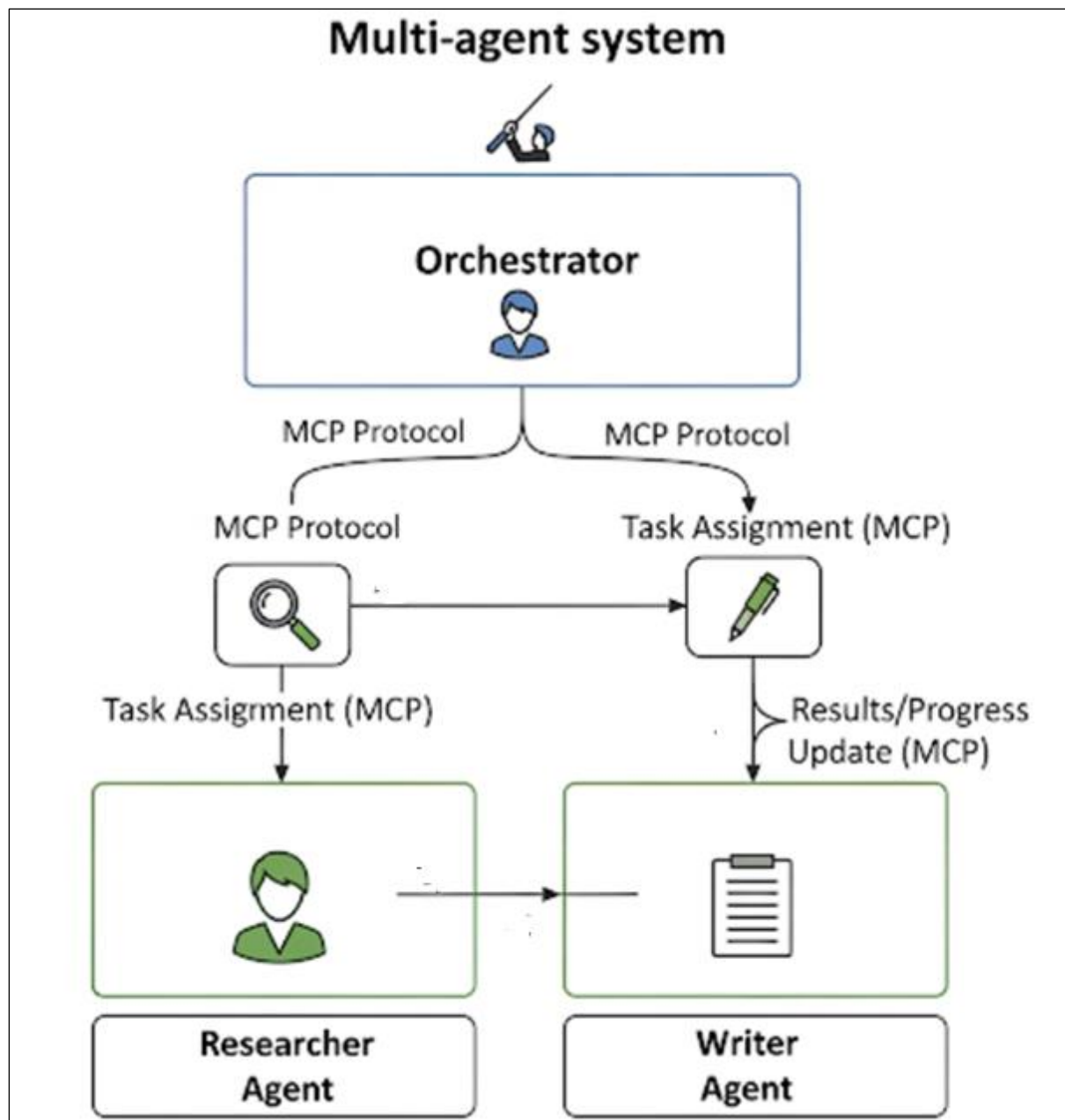
The Semantic Blueprint (Stemma Visualization)



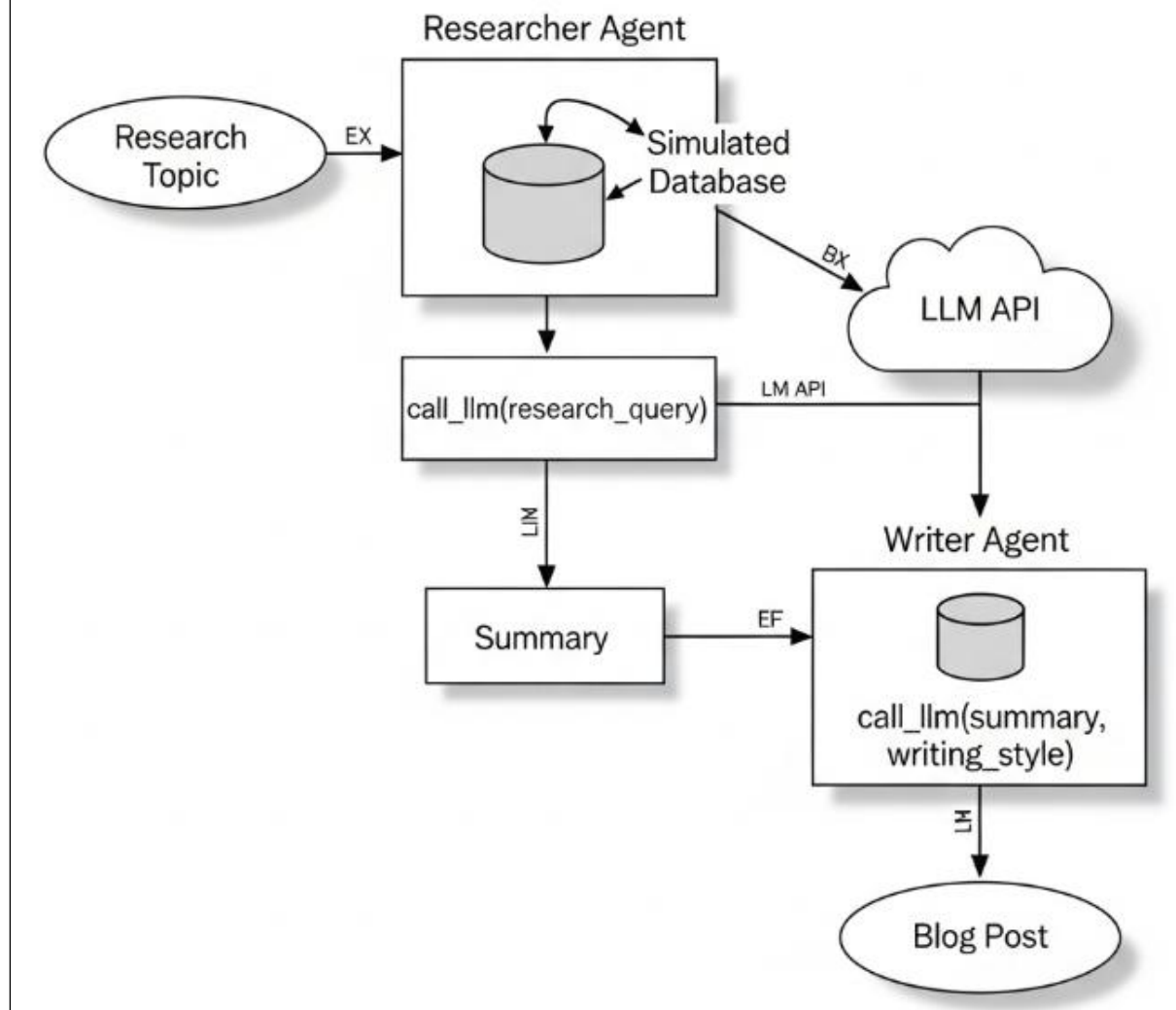
Meeting Analysis Context-Chaining Flowchart



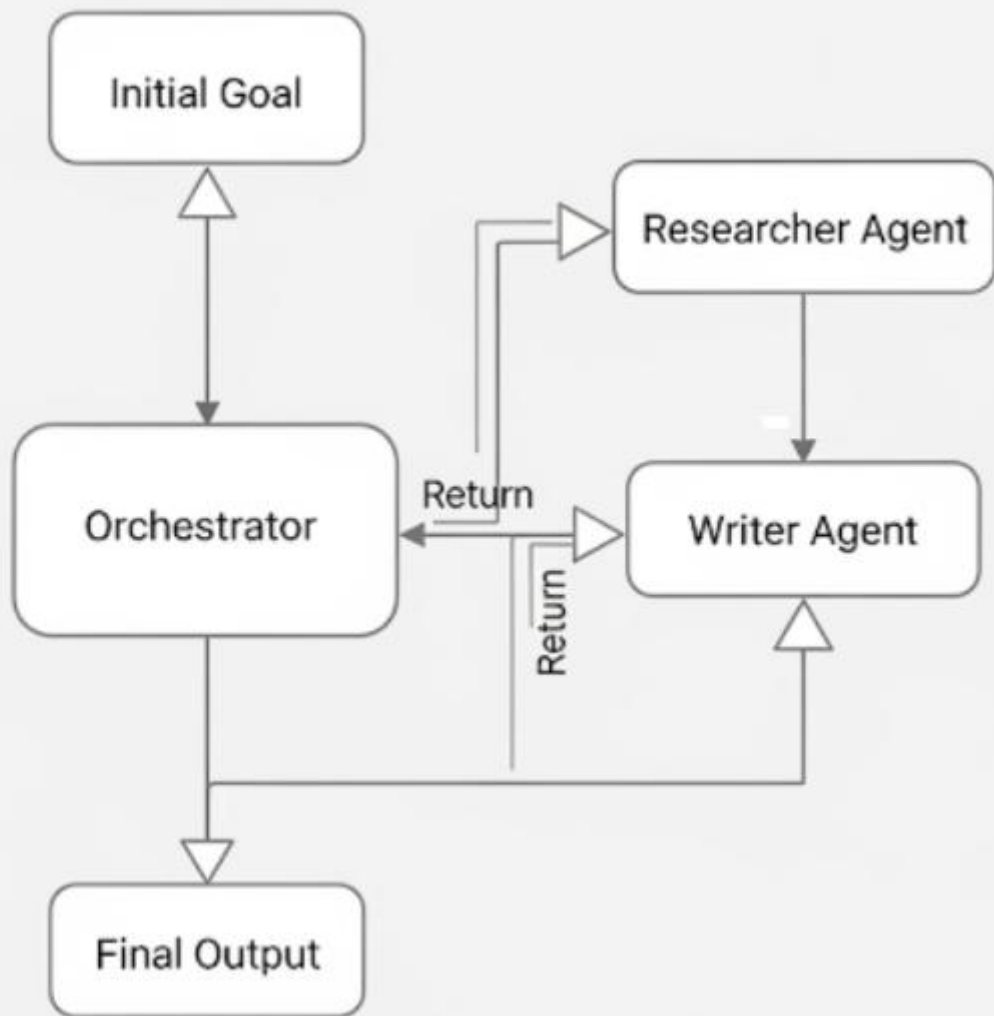
Chapter 2: Building a Multi-Agent System with MCP



Multi-Agent AI System Flowchart



The Orchestrator



Multi-Agent System Execution Flow

User input

(Orchestrator) Goal Received:
"Create a blog post about the benefits
of the Mediterranean diet"

Task Delegation [Orchestrator]



Researcher Agent Activated
Research summary created
for "Mediterranean Diet"

Output & Handoff (Researcher to Summarize)

=====

- Emphasizes fruits, vegetables...
- Emphasizes fruits, vegetables...
- Associated with lower risk...
- Benefits are linked to high intake.

=====

Researcher Agent

(Orchestrator) Task 1: Research
Delegating to Researcher agent

Task Delegation [Orchestrator]



Task 2: Write
Delegating to Writer agent



Writer Agent Activated
Write content
Blog post drafted



Confirmation
Writing complete

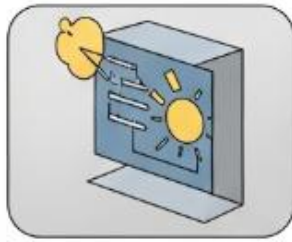
Final Output (workflow complete)

=====

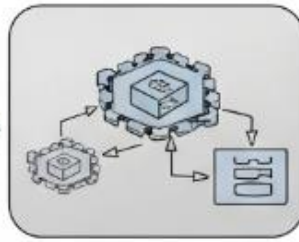
Mediterranean Magic: A Delicious Way to Boost the Heart, Brain, and Longevity
The Mediterranean-style plate celebrates colorful fruits and
vegetables...
... Start today with a drizzle and a colorful plate.

=====

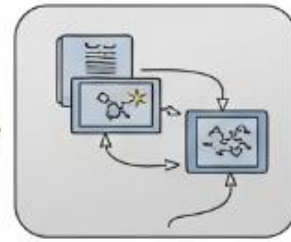
The Evolution of AI Architecture: Models to Systems



Stage 1: The Model

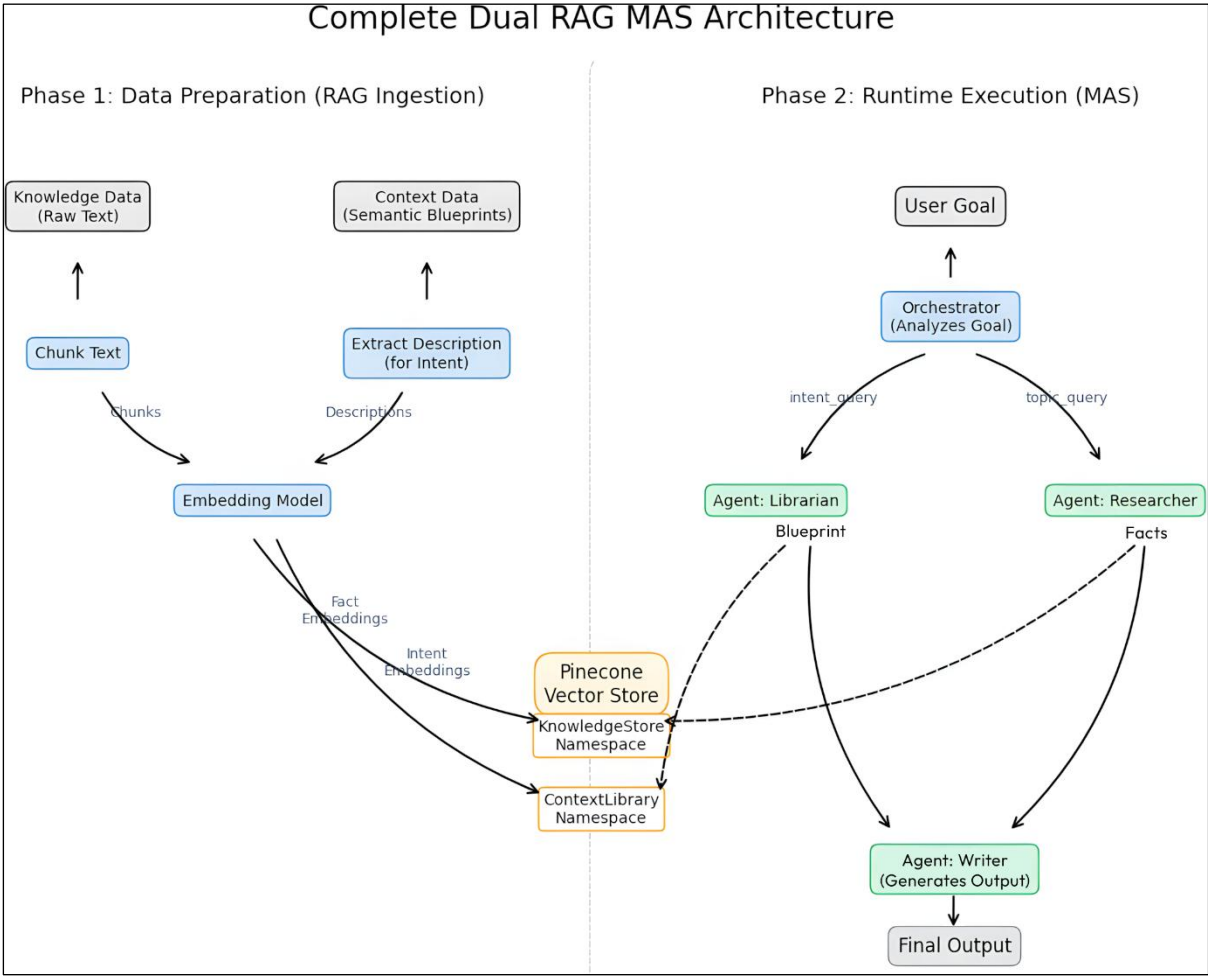


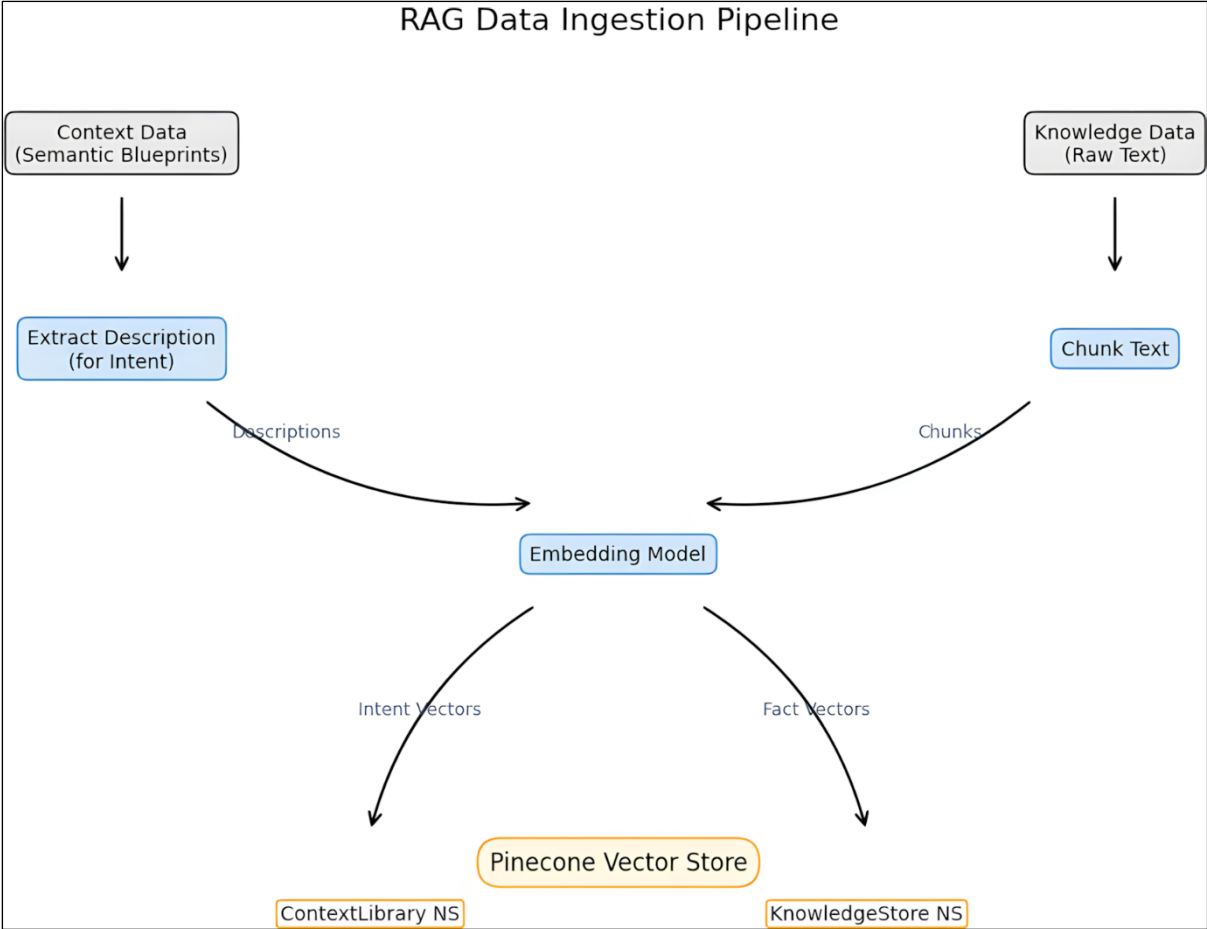
Stage 2: The Agent



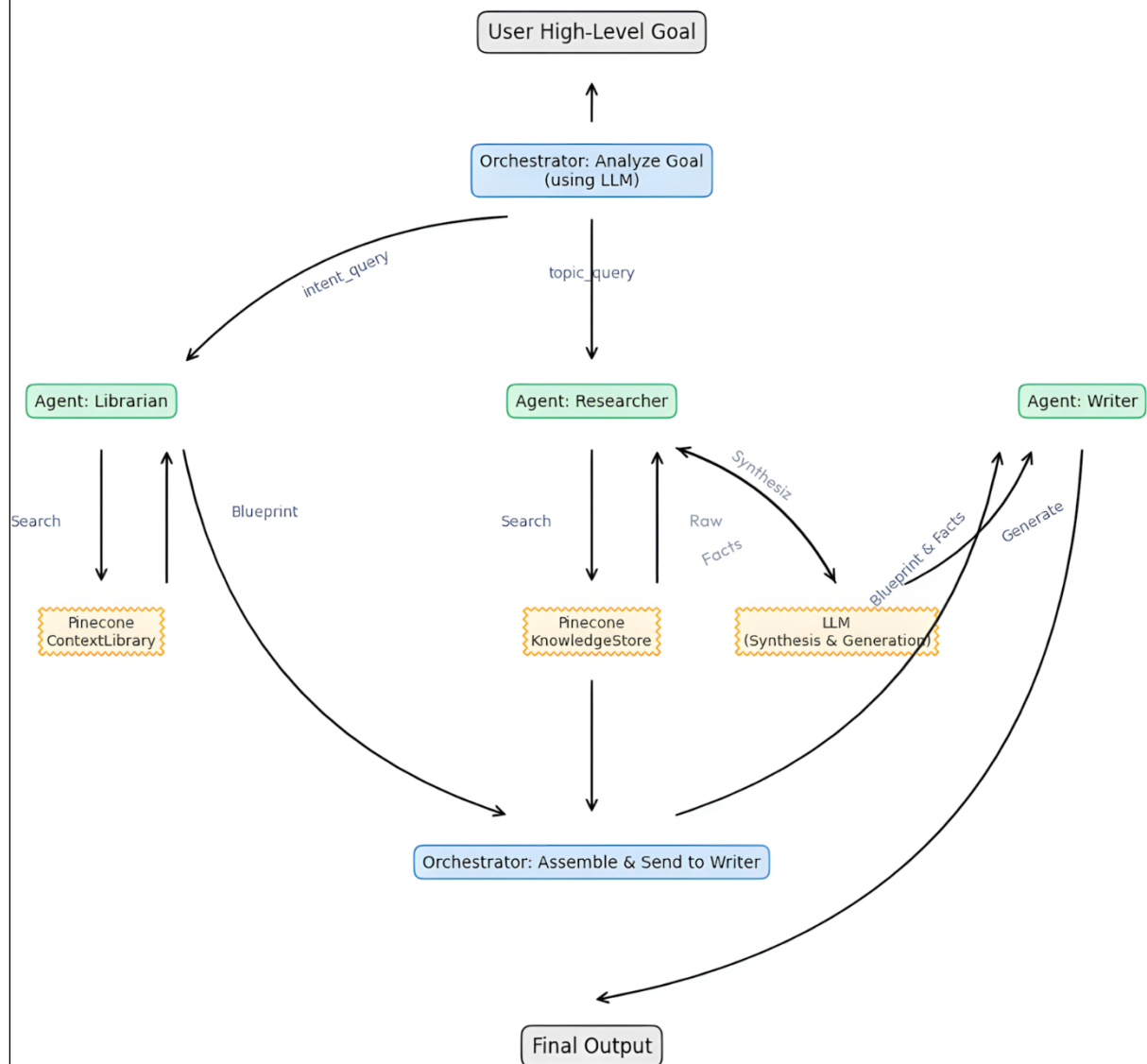
Stage 3: The System (MAS)

Chapter 3: Building the Context-Aware Multi-Agent System

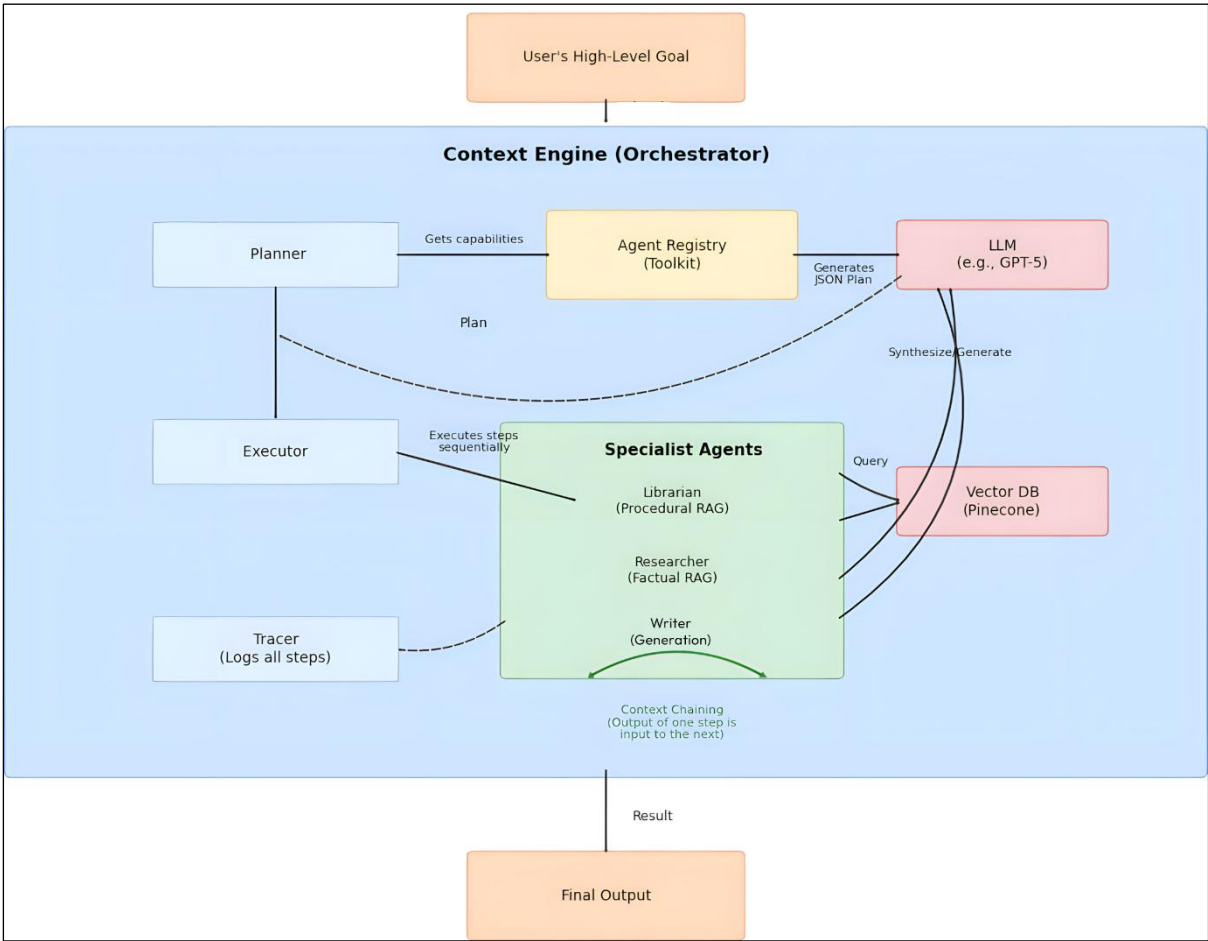




Flowchart for Context-Aware MAS Notebook



Chapter 4: Assembling the Context Engine



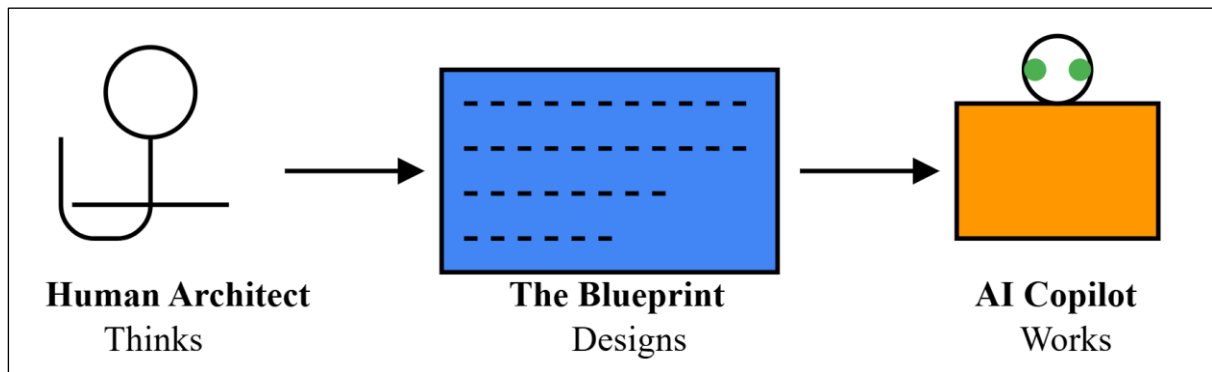
Chapter 5: Hardening the Context Engine

Legend:

- Section 7 (Execution)
- Section 6 (Engine Core)
- Section 5 (Agent Registry)
- Section 4 (Agents)
- Section 3 (Helpers)

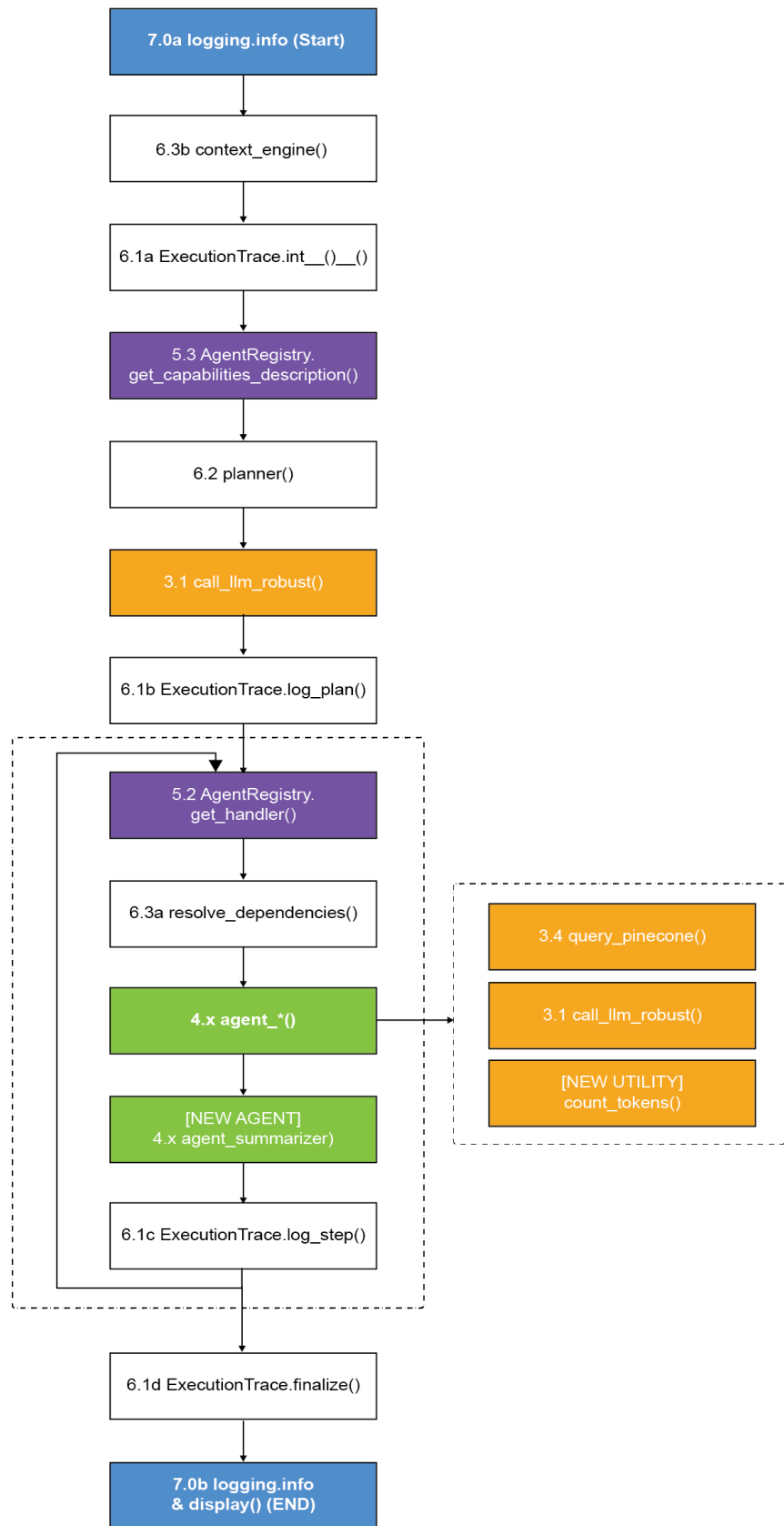


Chapter 6: Building the Summarizer Agent for Context Reduction

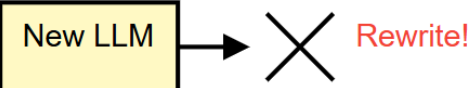
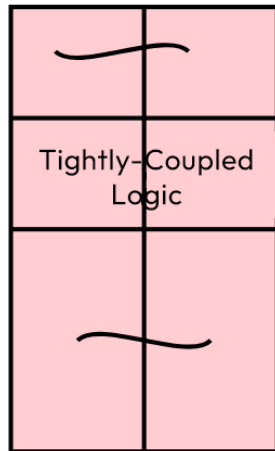


Legend:

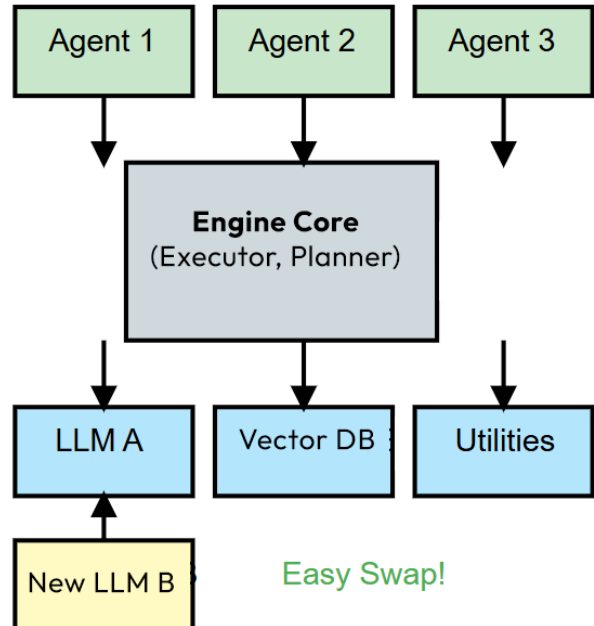
- Section 7 (Blue)
- Section 6 (White)
- Section 5 (Purple)
- Section 4 (Green)
- Section 3 (Orange)



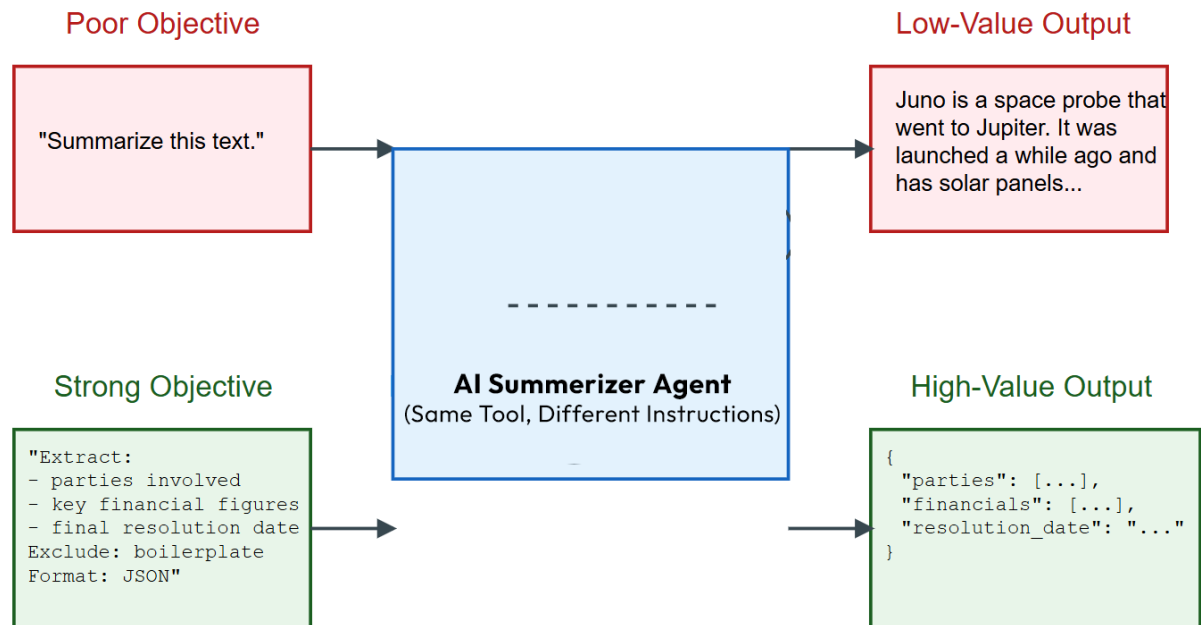
Monolithic System (Brittle)

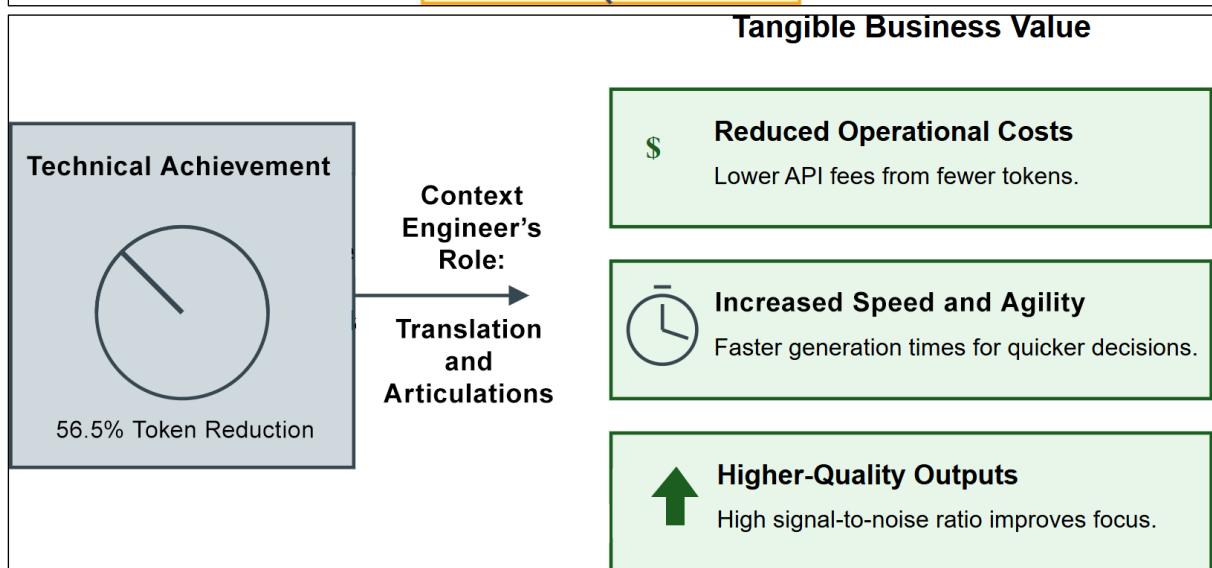
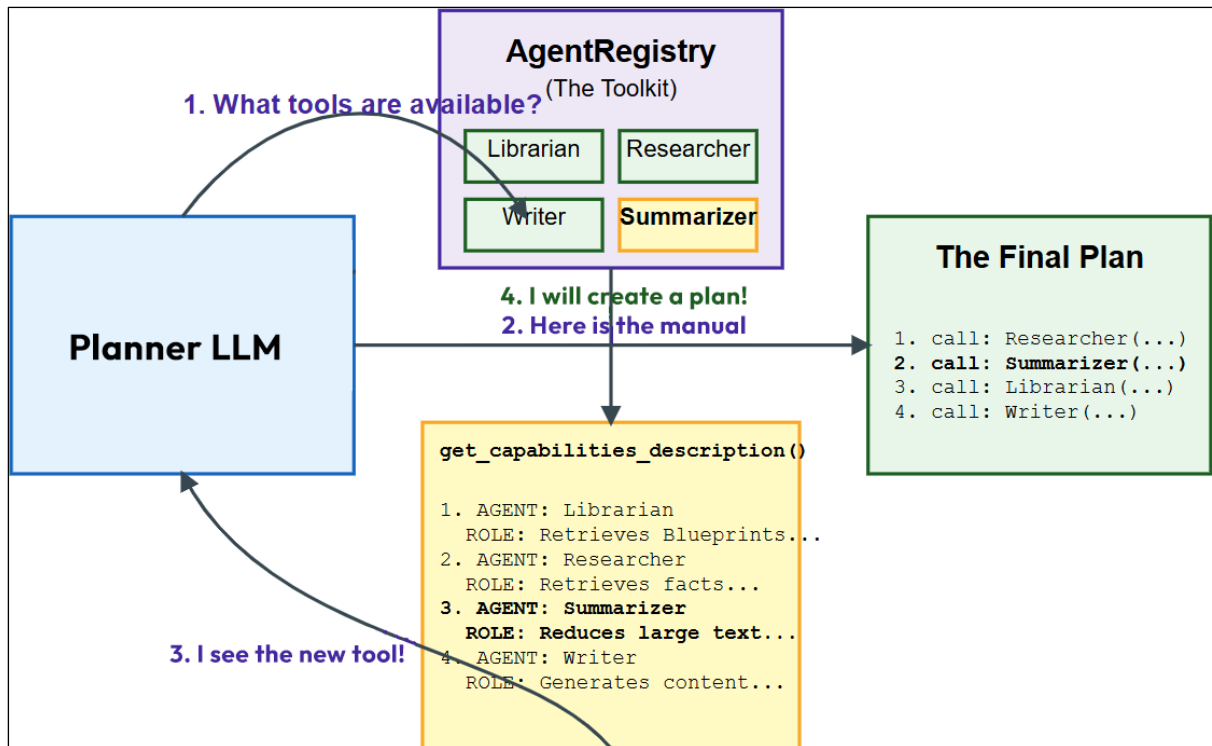


Glass Box Architecture (Agile)

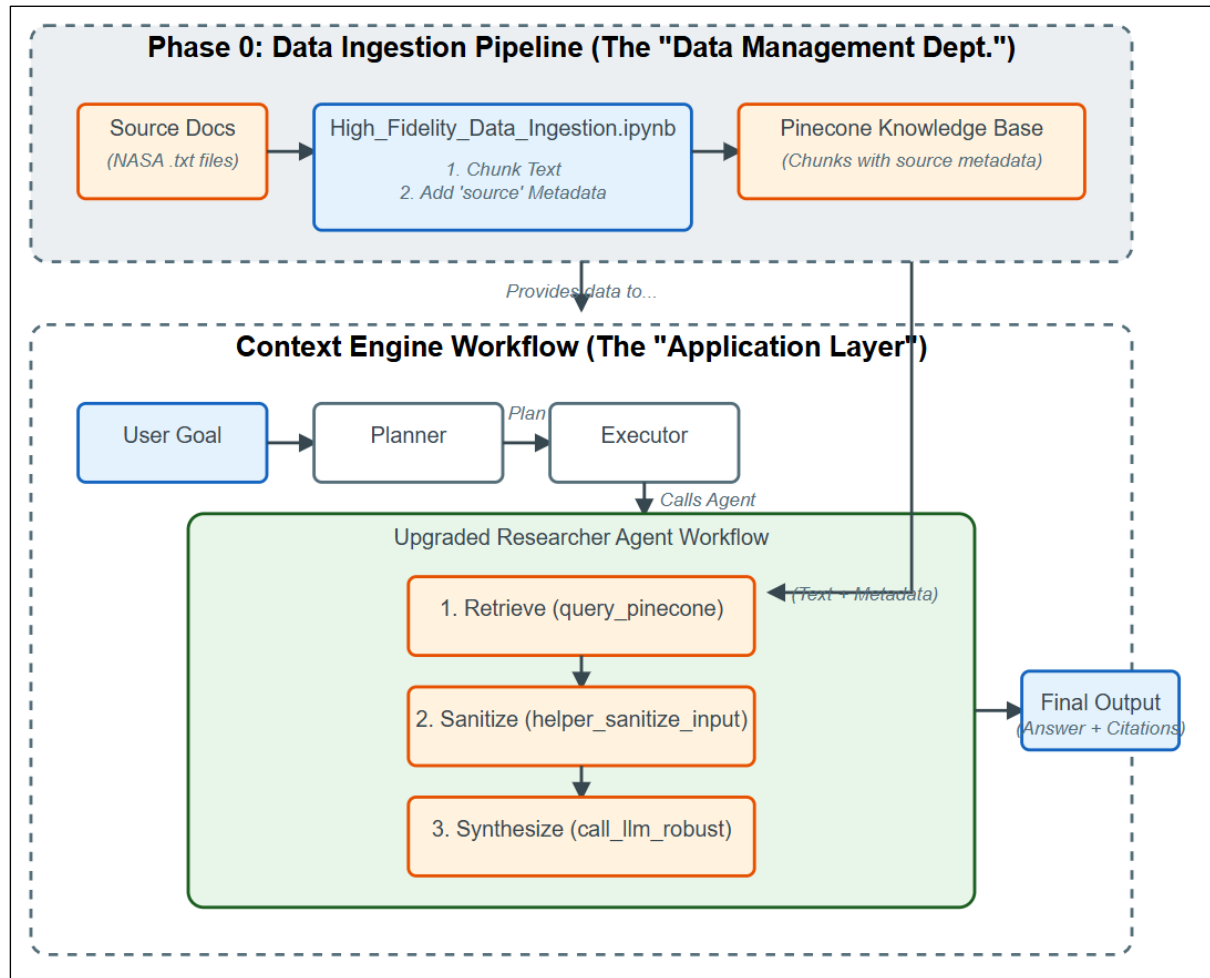


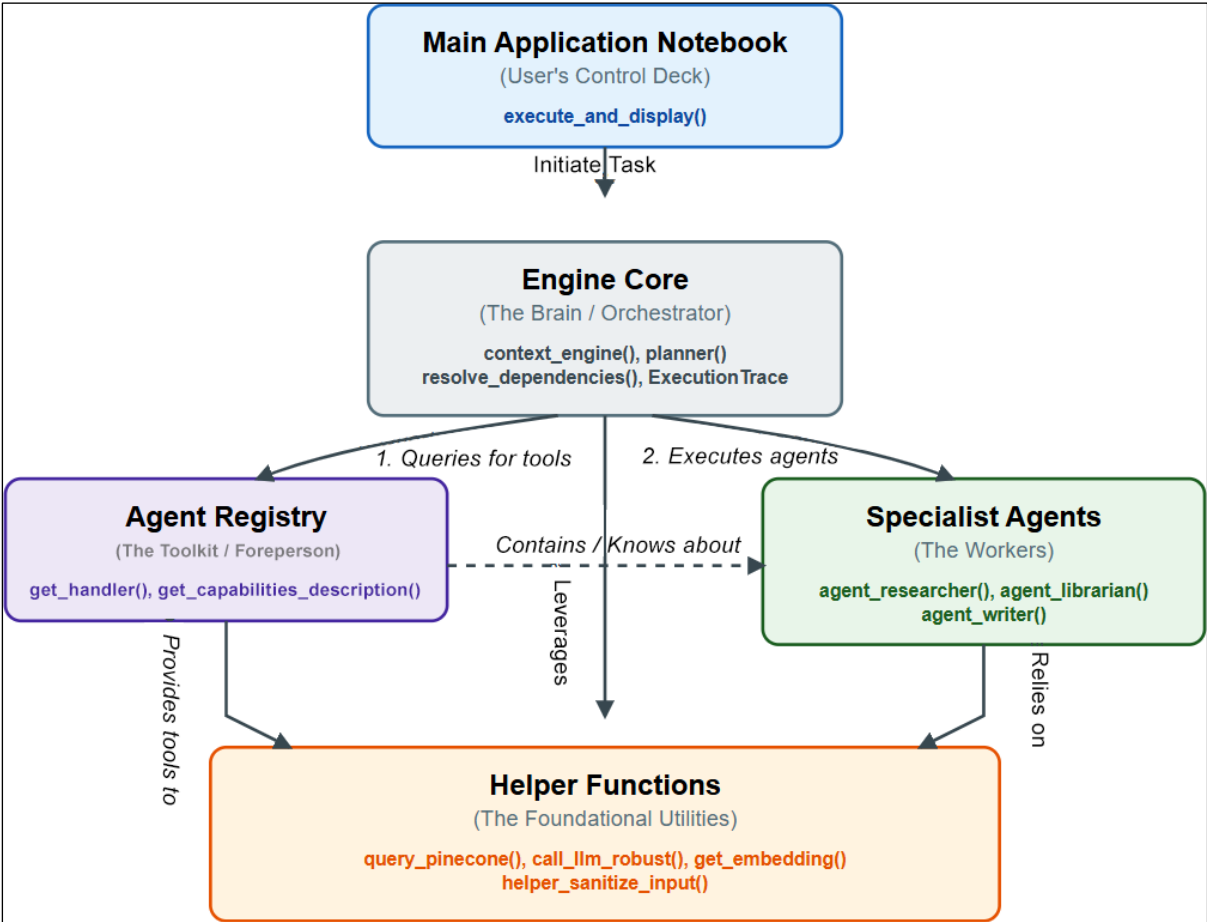
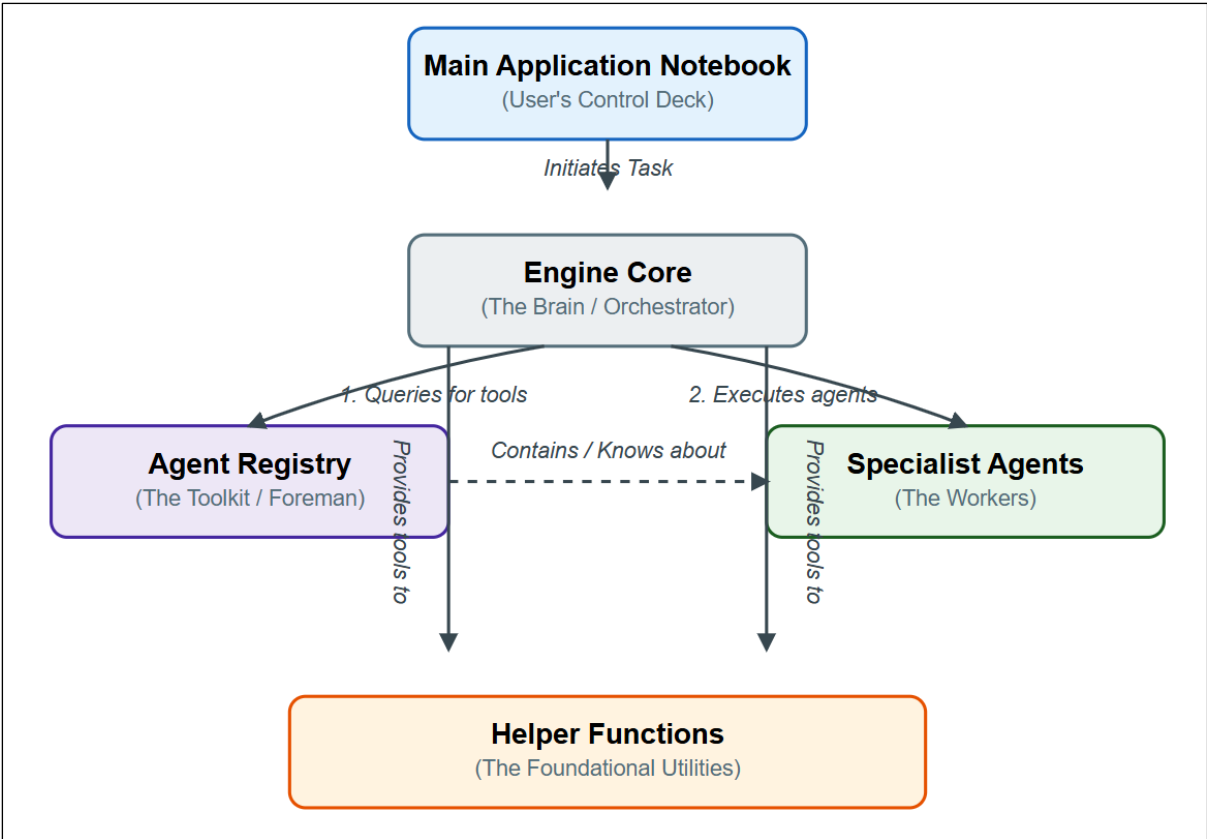
The Art of Context Engineering

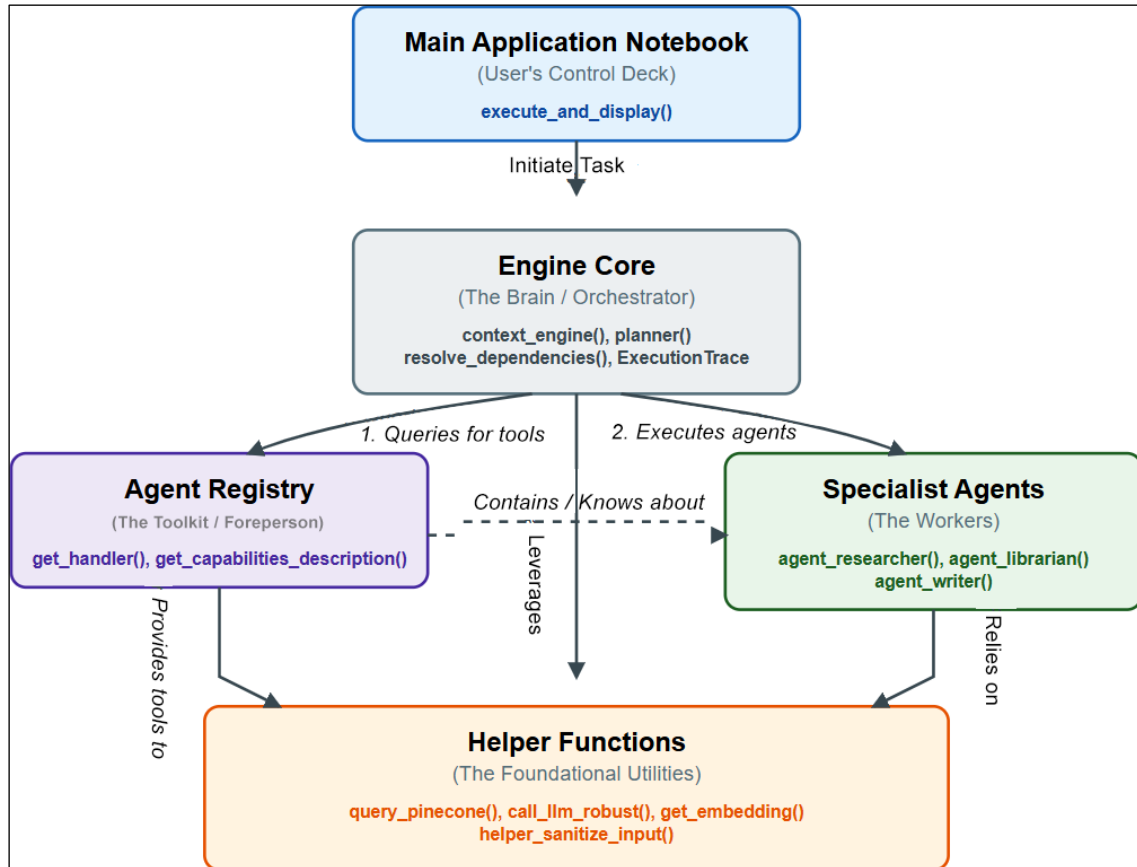
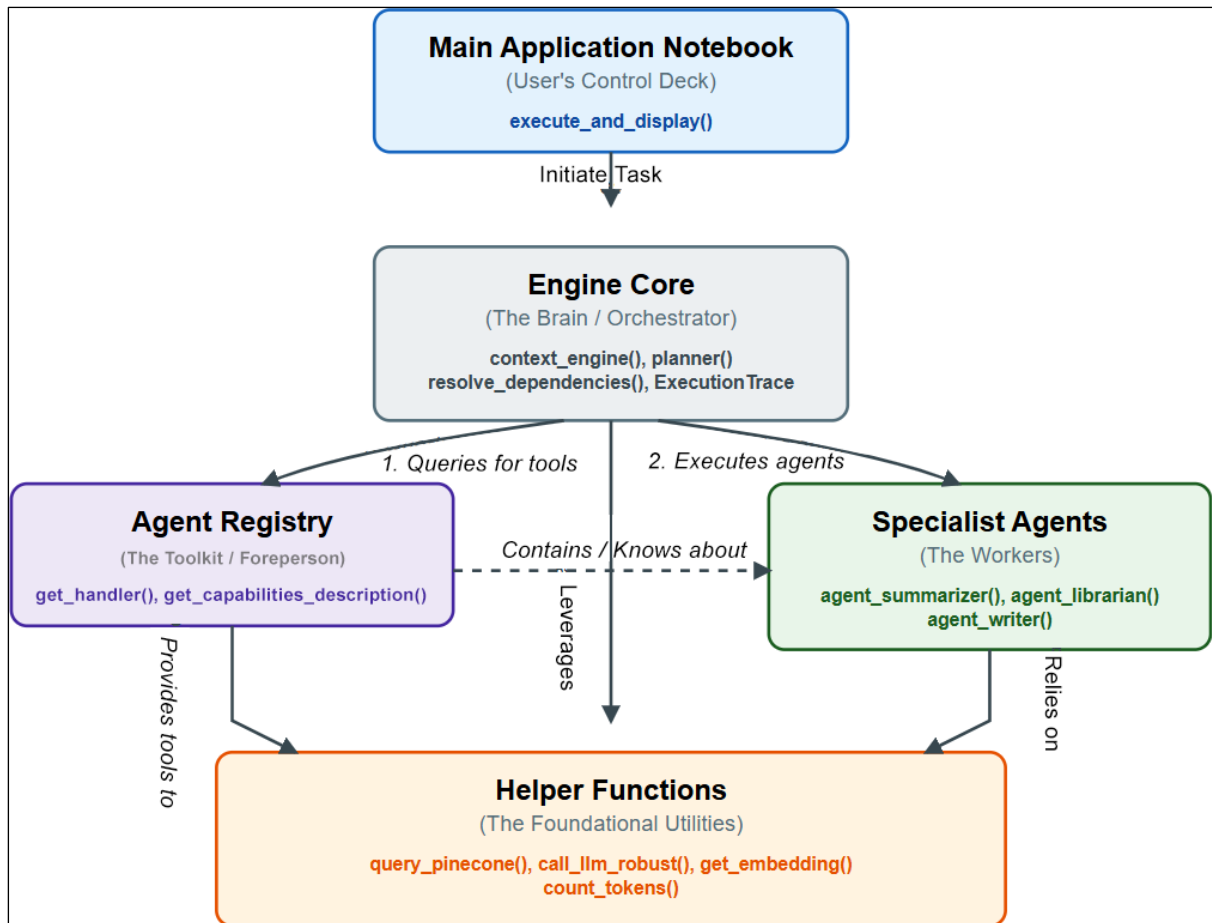




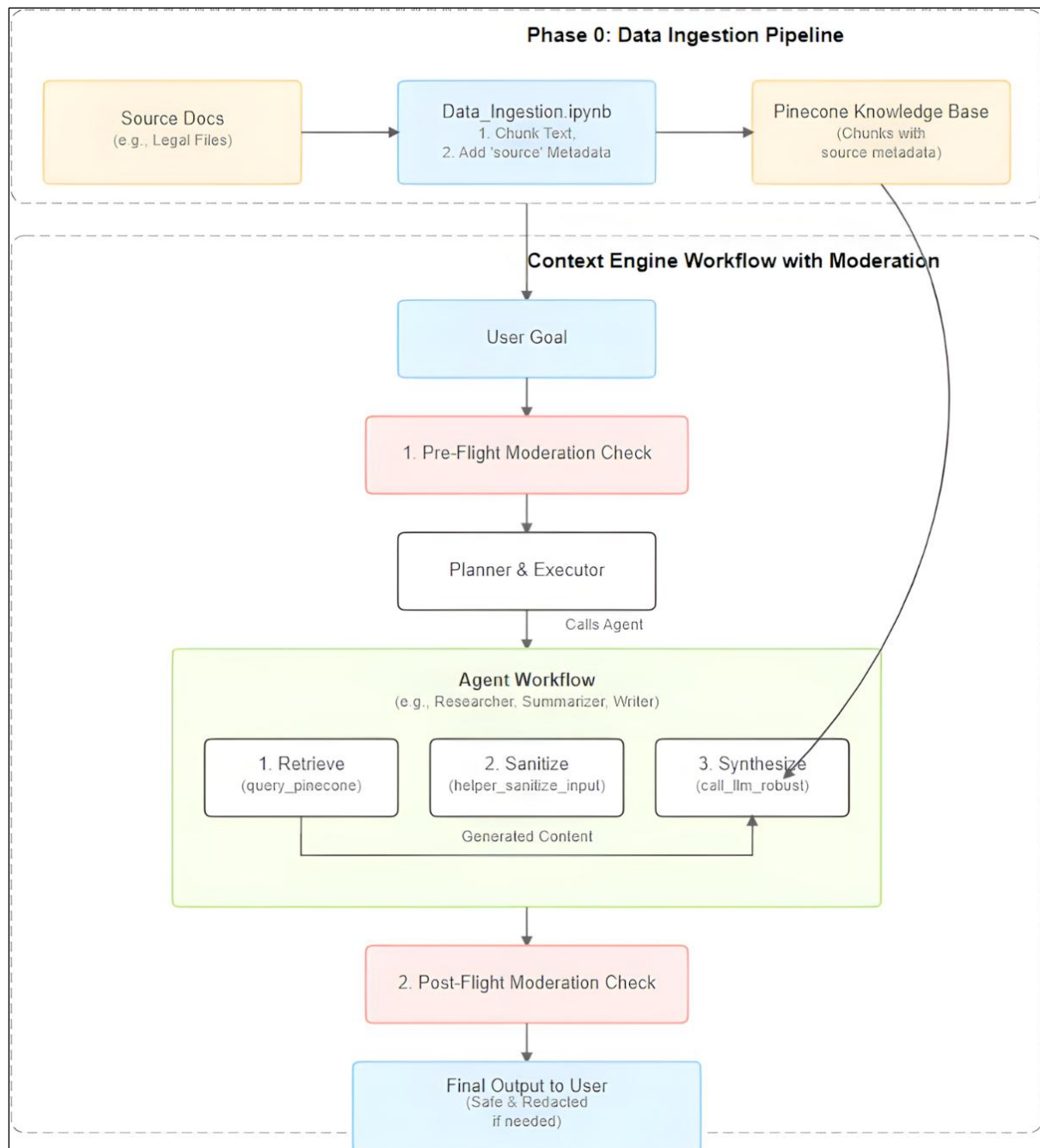
Chapter 7: High-Fidelity RAG and Defense: The NASA-Inspired Research Assistant

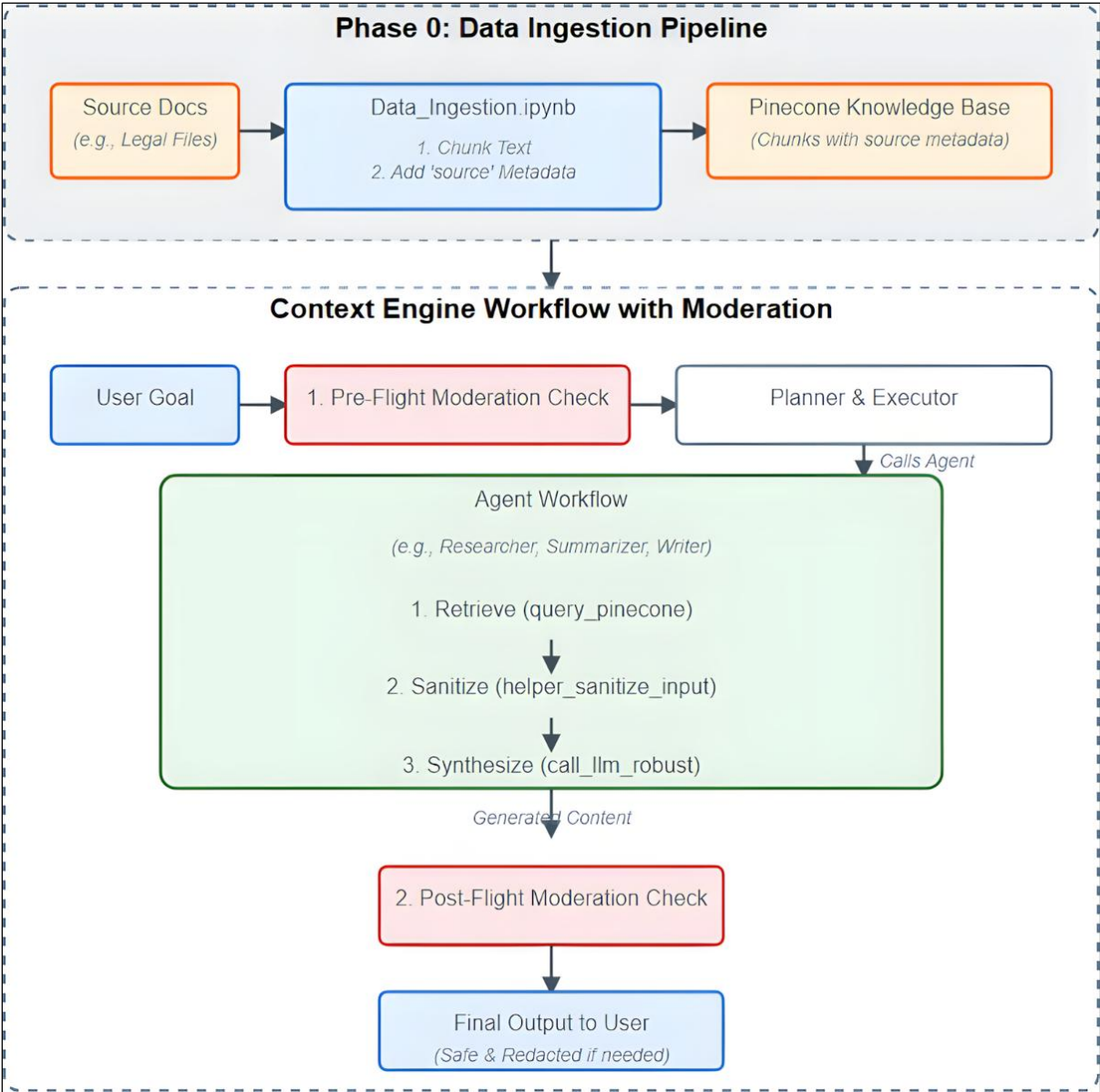




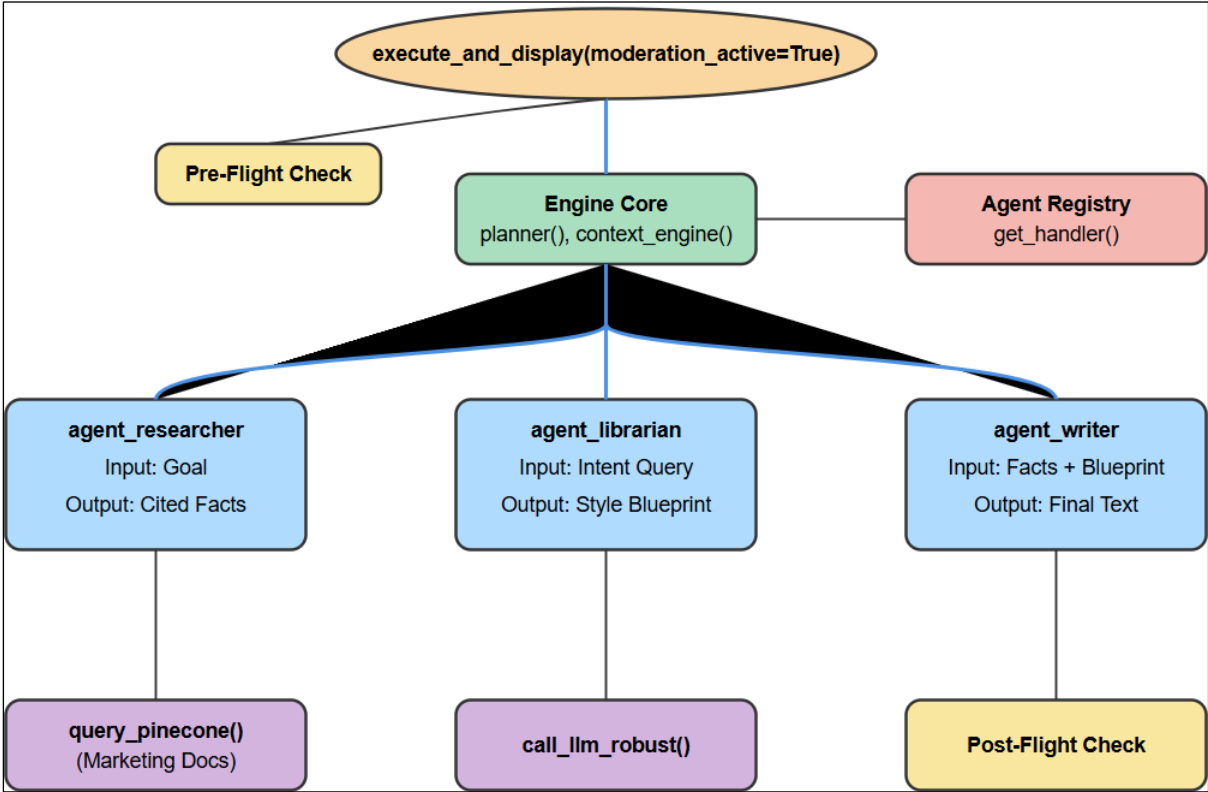
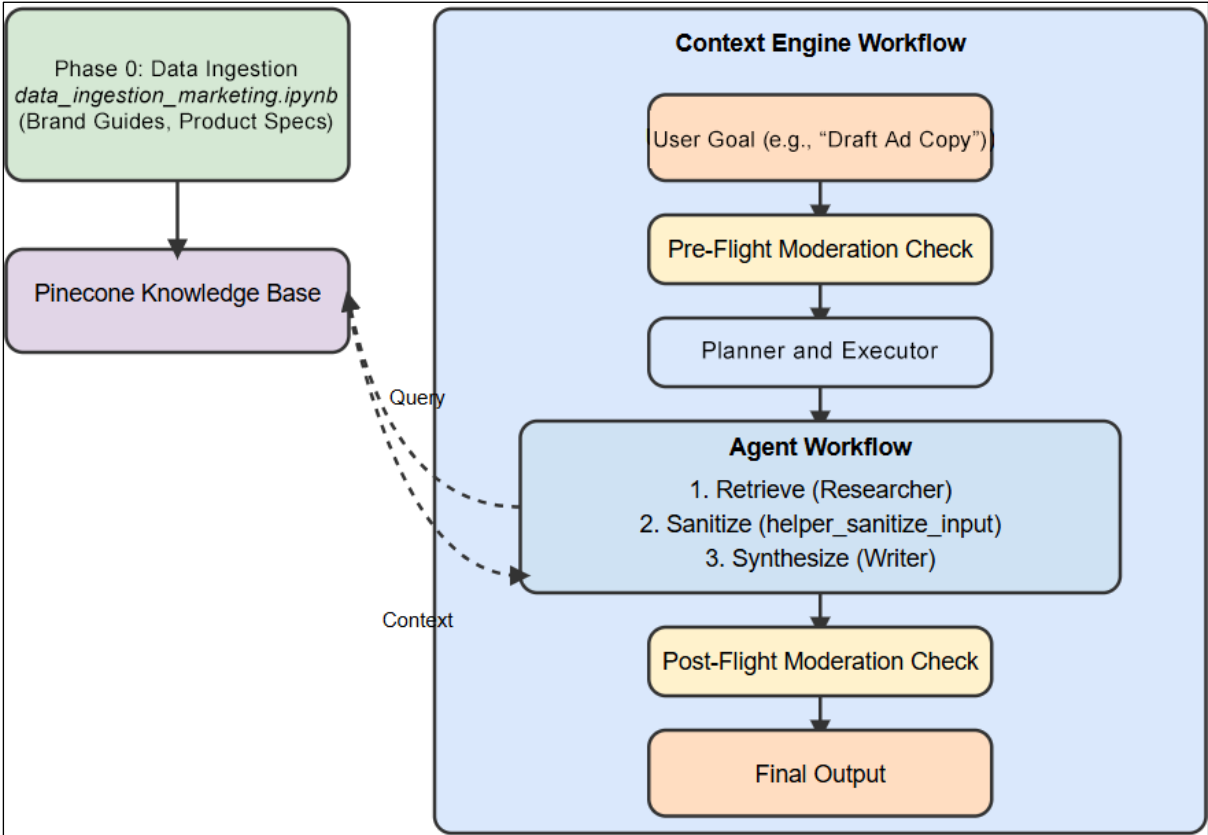


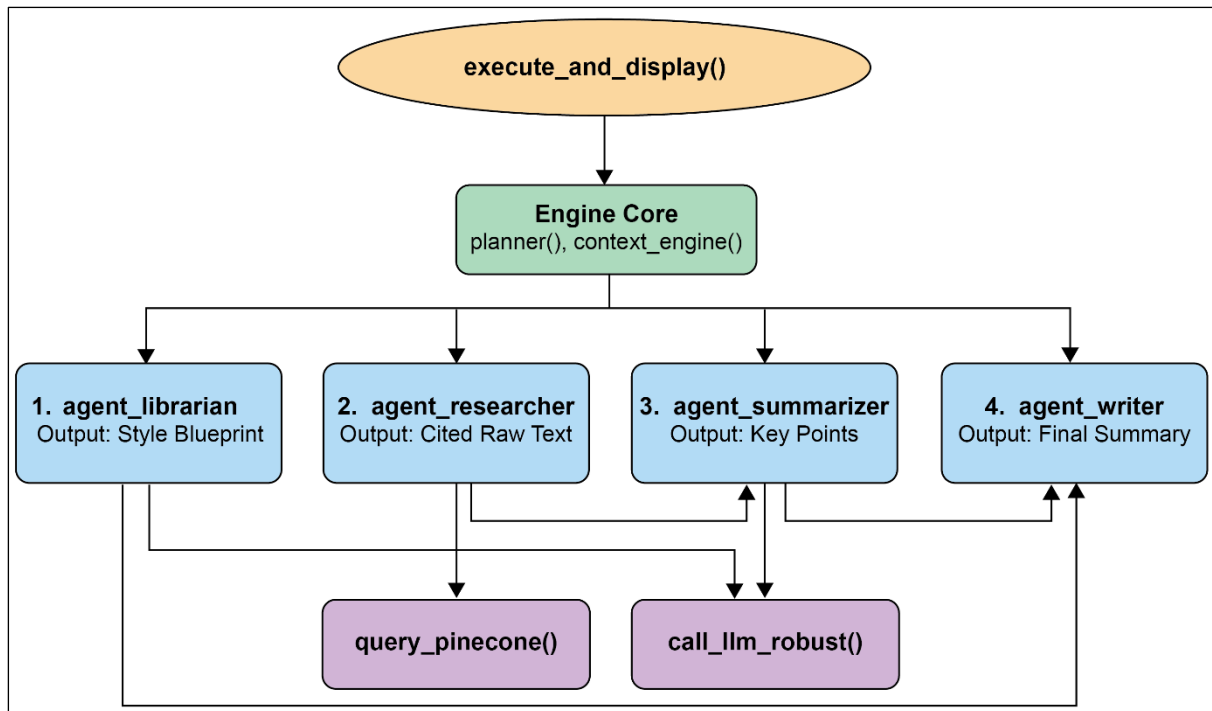
Chapter 8: Architecting for Reality: Moderation, Latency, and Policy-Driven AI





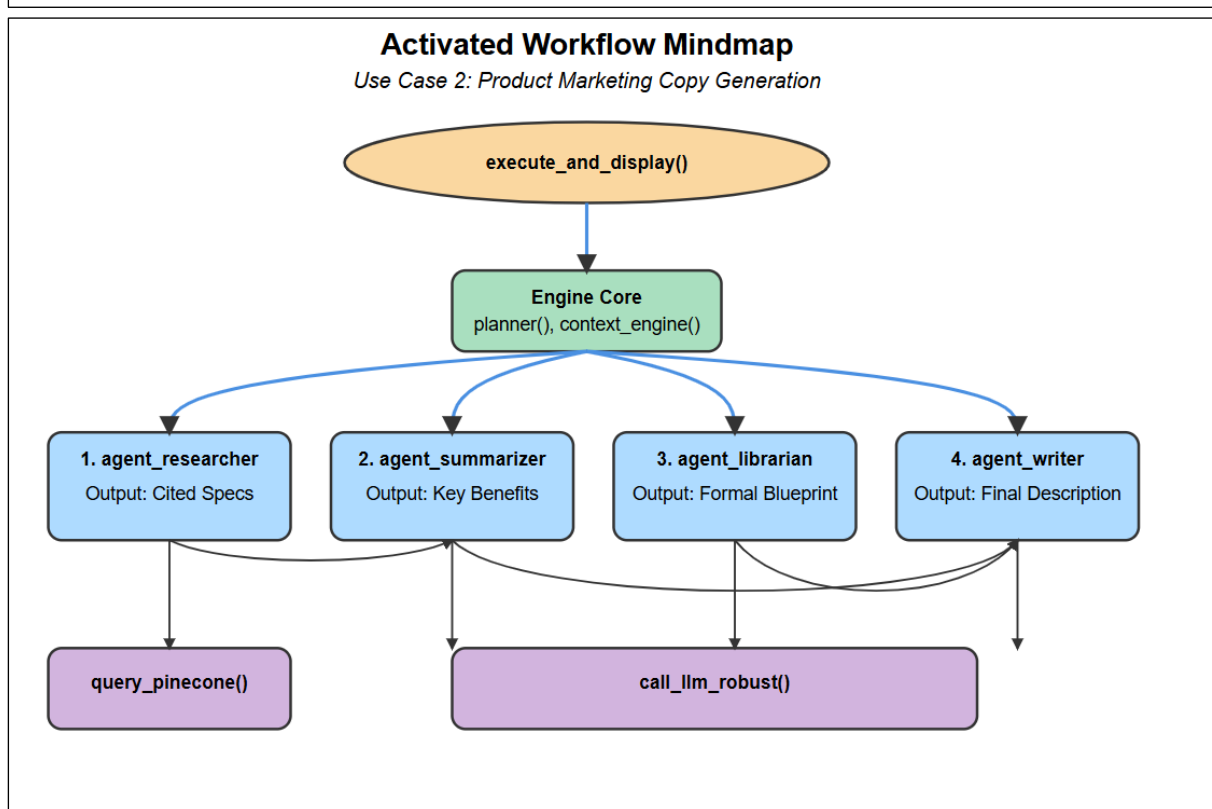
Chapter 9: Architecting for Brand and Agility: The Strategic Marketing Engine





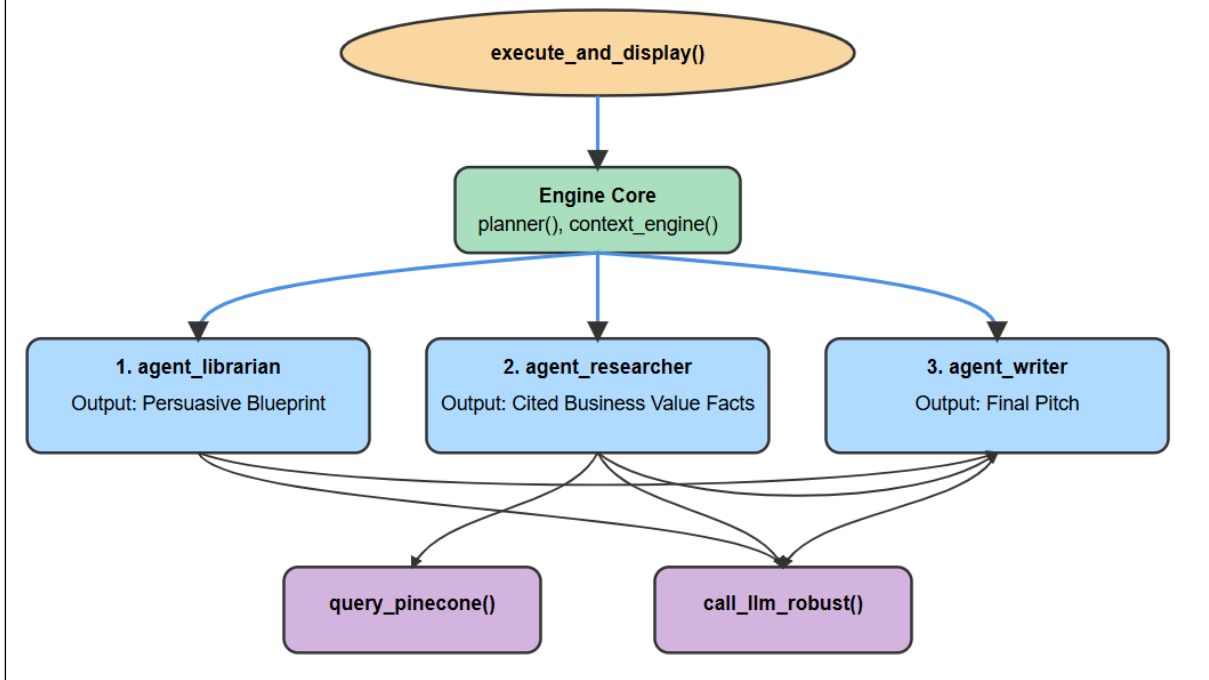
Activated Workflow Mindmap

Use Case 2: Product Marketing Copy Generation

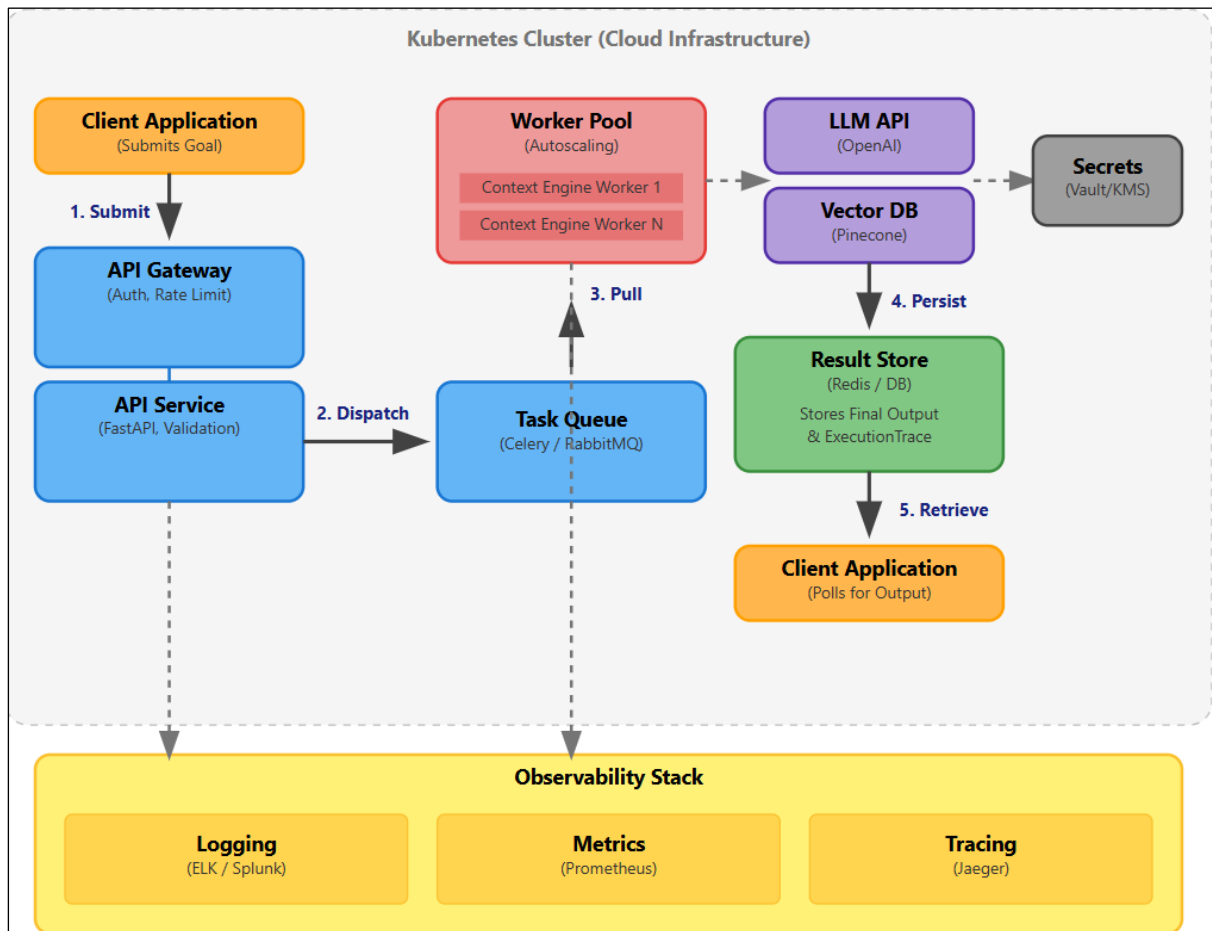


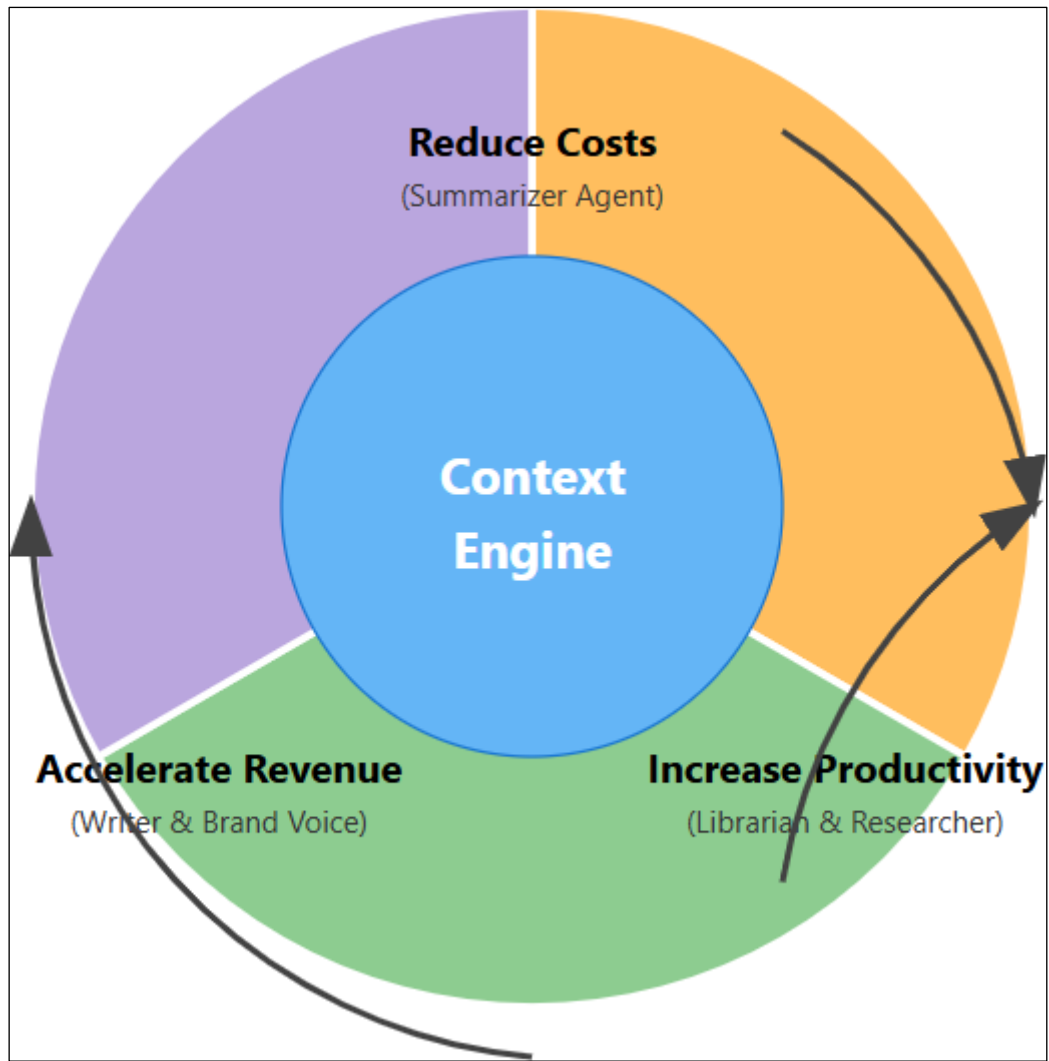
Activated Workflow Mindmap

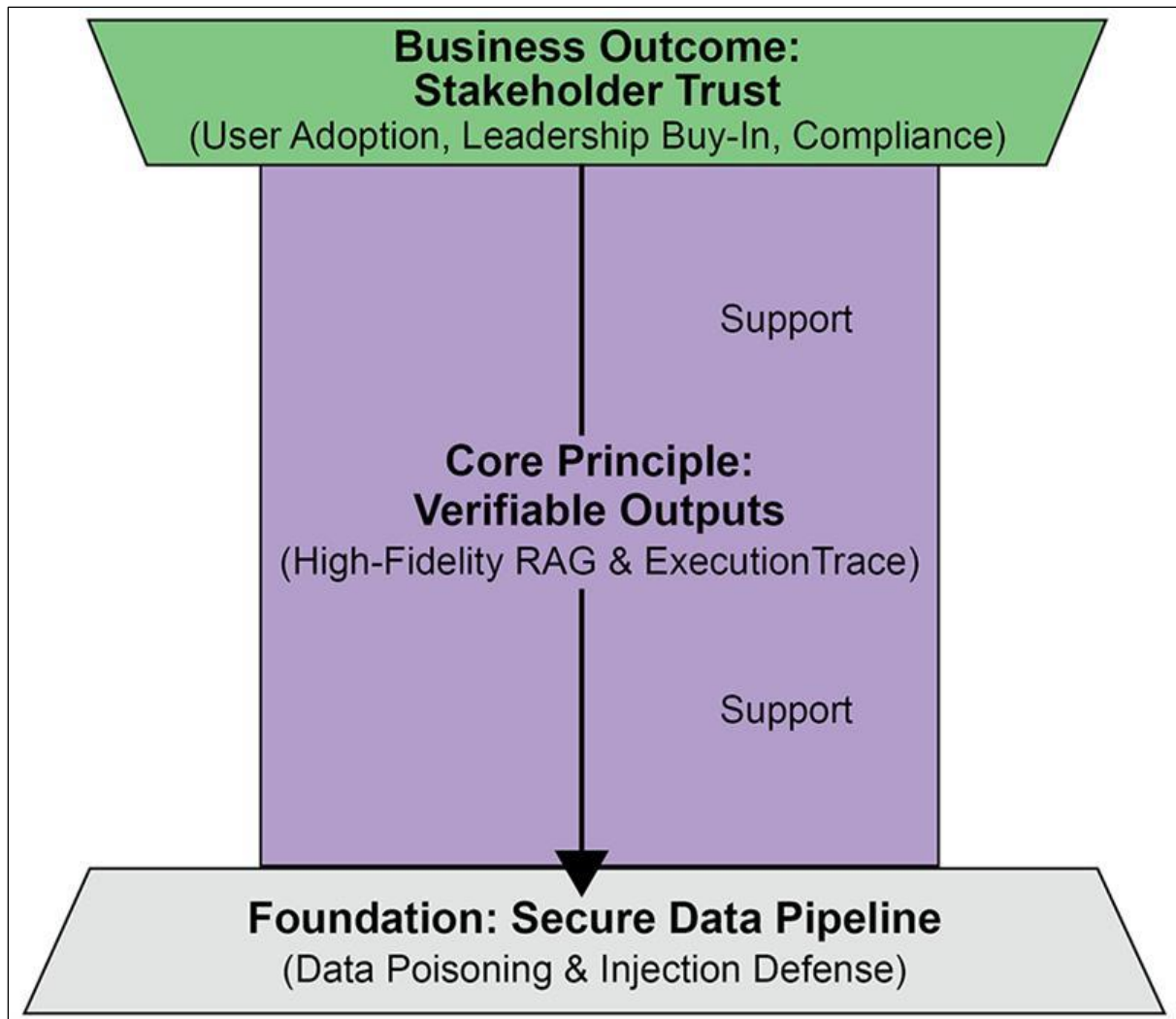
Use Case 3: Persuasive Pitch Synthesis

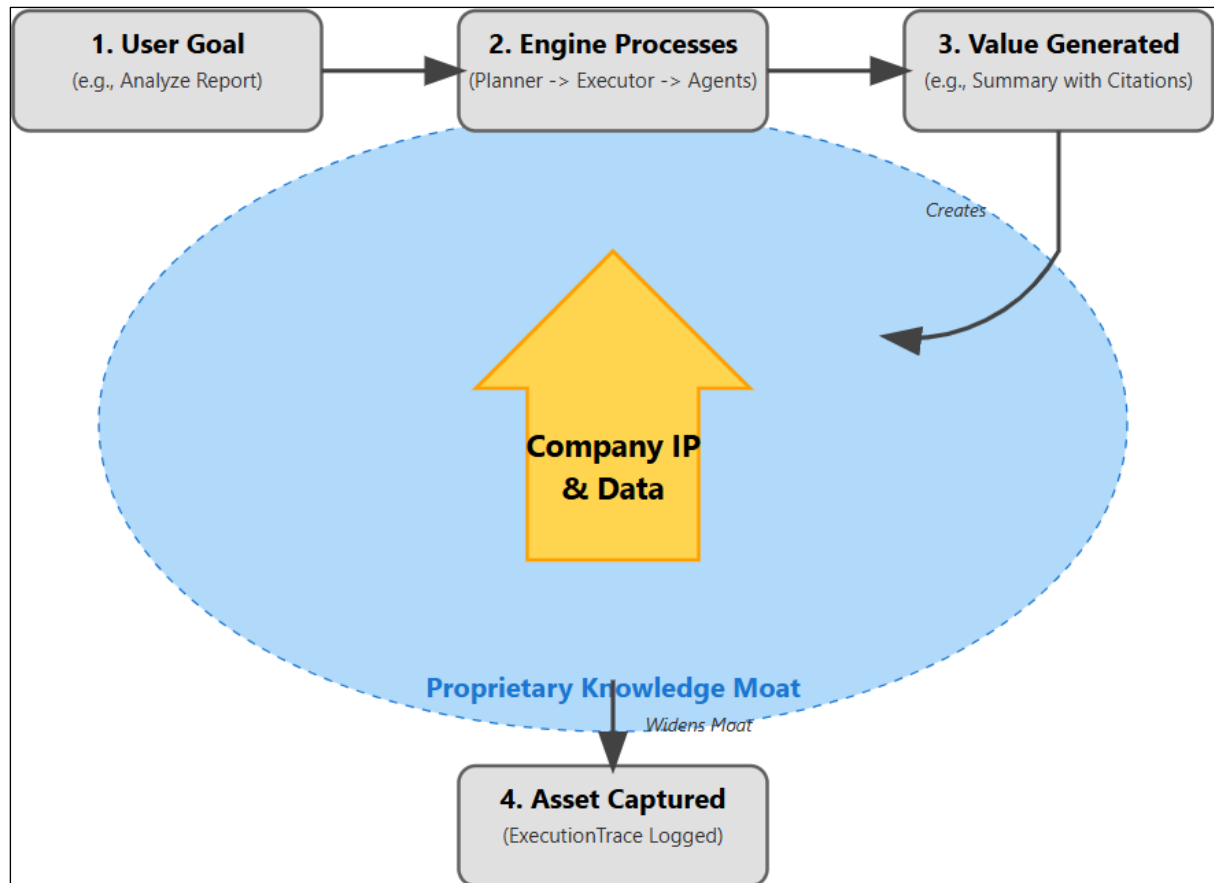


Chapter 10: The Blueprint for Production-Ready AI









Appendix A: Context Engine Reference Guide

