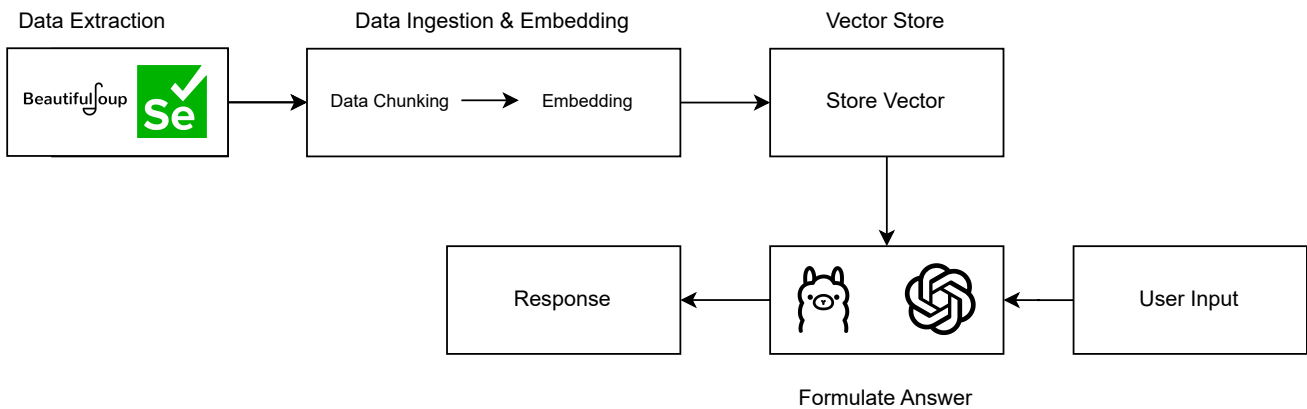


Phase - RAG Implementation

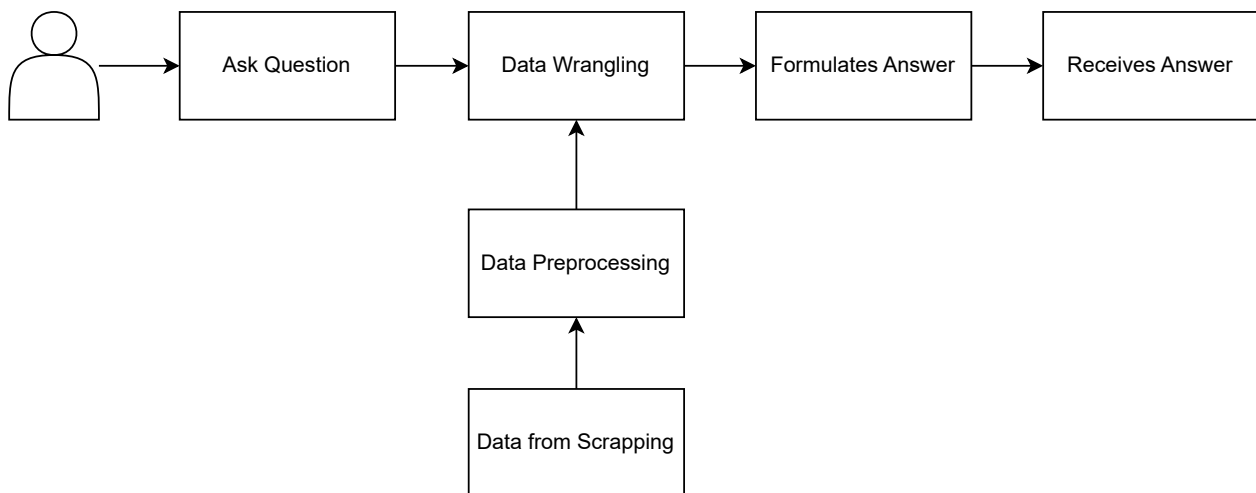
System Flow

1. Data Ingestion (Manual/One-Time) (BeautifulSoup)
2. Data Processing & Embedding (Azure Embedding API/ Ollama Embedding API)
3. Vector Storage (FAISS)
4. User Interaction & Retrieval
5. Generation & Response

System Flowchart (CAG)



User Flowchart



System Flow

1. This system operates as a "crew" of specialized AI agents, each with a specific role and set of tools.

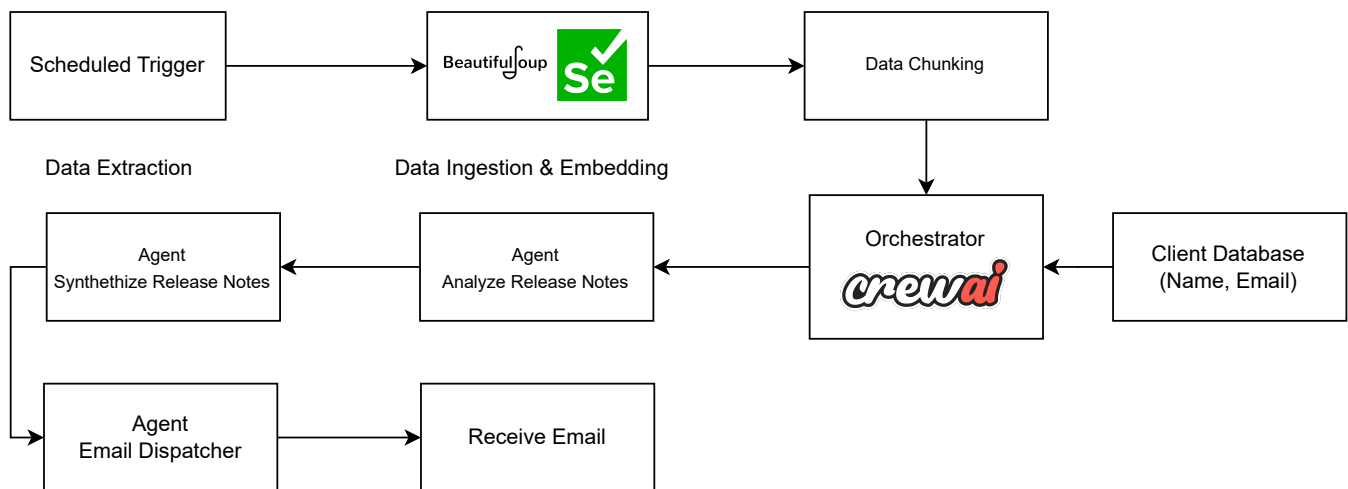
1. The Crew:

- ReleaseNotesAnalyst (Agent 1)
- SummarizationExpert (Agent 2)
- EmailDispatcher (Agent 3)

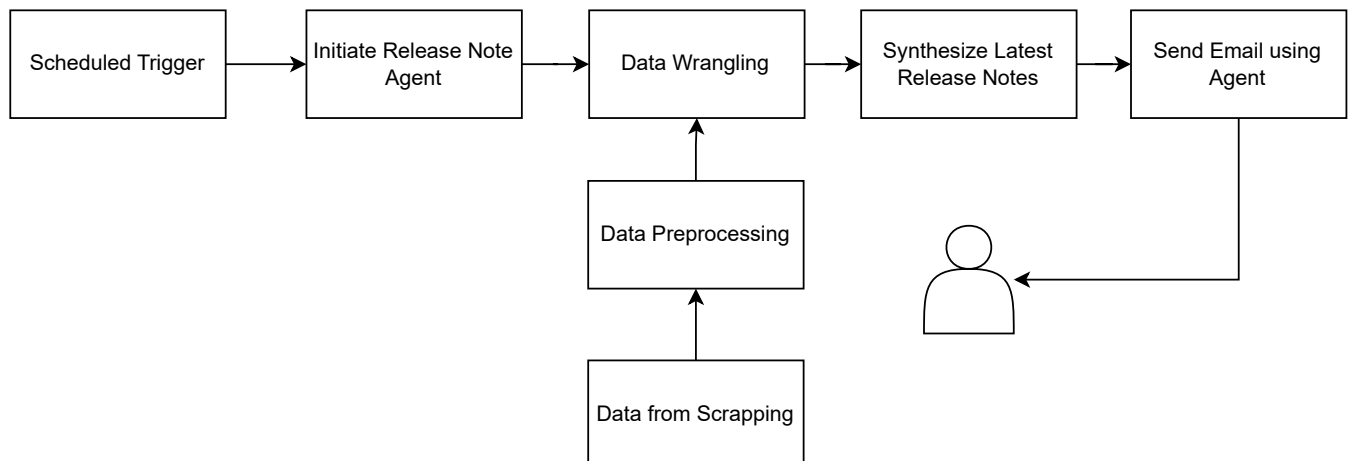
2. The Process:

- A main Python script defines the three agents and their tools.
- A Task is defined for each agent, chaining them together.
 - Task 1: "Analyze the release notes from [URL] and extract all updates from the past week." (Assigned to Analyst)
 - Task 2: "Take the extracted updates and compose a newsletter summary." (Assigned to Expert)
 - Task 3: "Send the composed newsletter to [email list]." (Assigned to Dispatcher)
- The crew is assembled with these agents and tasks, and the process is kicked off. The system runs autonomously until the email is sent.

System Flow



User Flowchart



Phase - Automation & QnA using Google Gmail API Services

Data Acquisition & Knowledge Base Creation (The Foundation)

- Automated Scraping
- Data Preprocessing & Structuring
- Text Chunking & Embedding
- Vector Store Creation

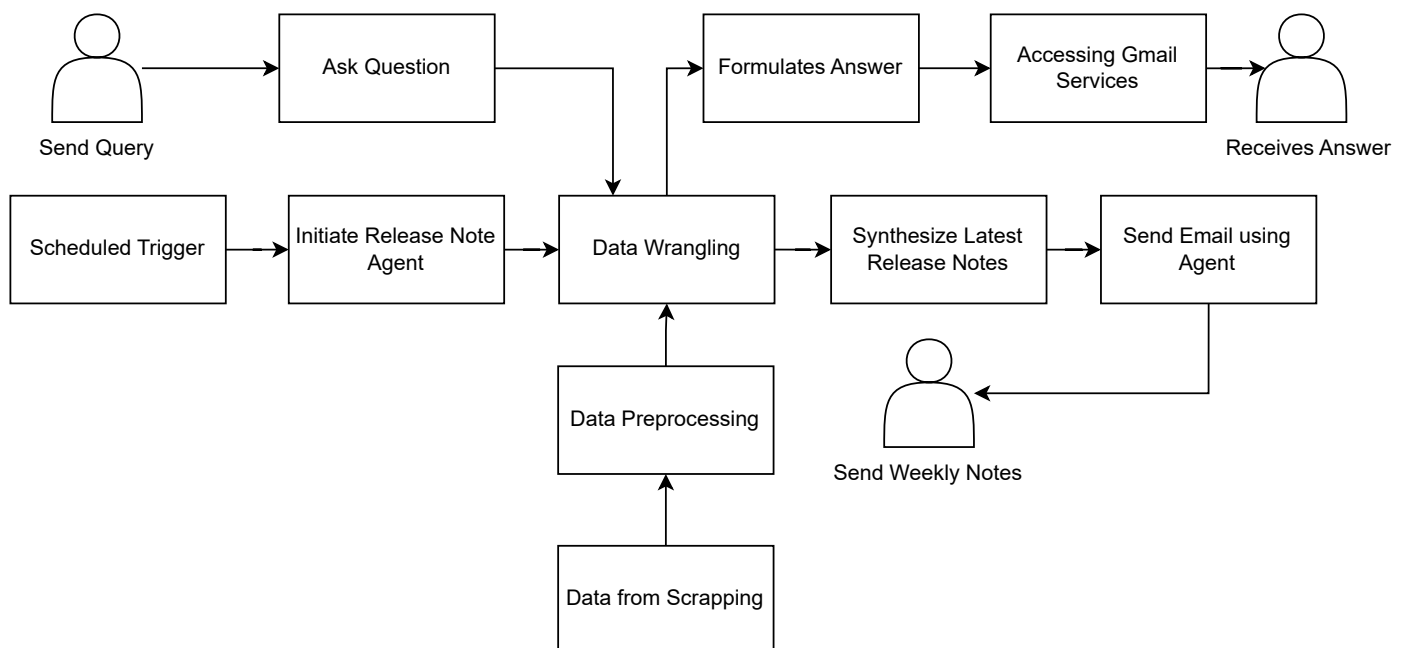
Proactive Weekly Newsletter Workflow

- Filter for Recent Updates
- Initialize Agentic Crew
- Collaborative Task Execution
- Email Dispatch

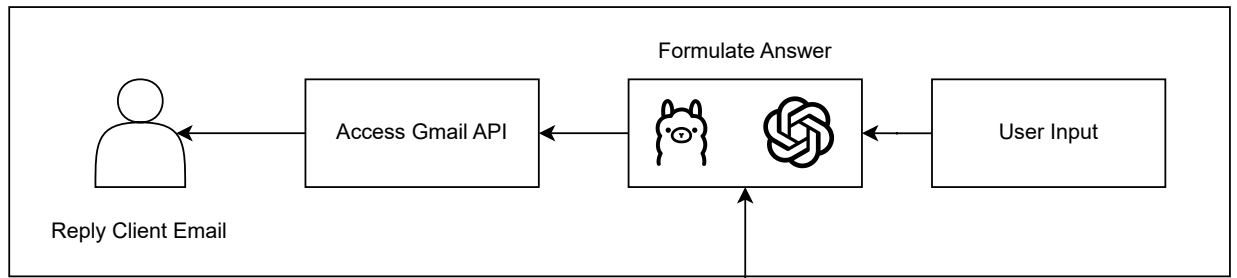
Reactive Q&A Email Bot Workflow

- Email Polling & Question Retrieval
- RAG Chain Invocation
- Intelligent Answer Generation
- Email Reply

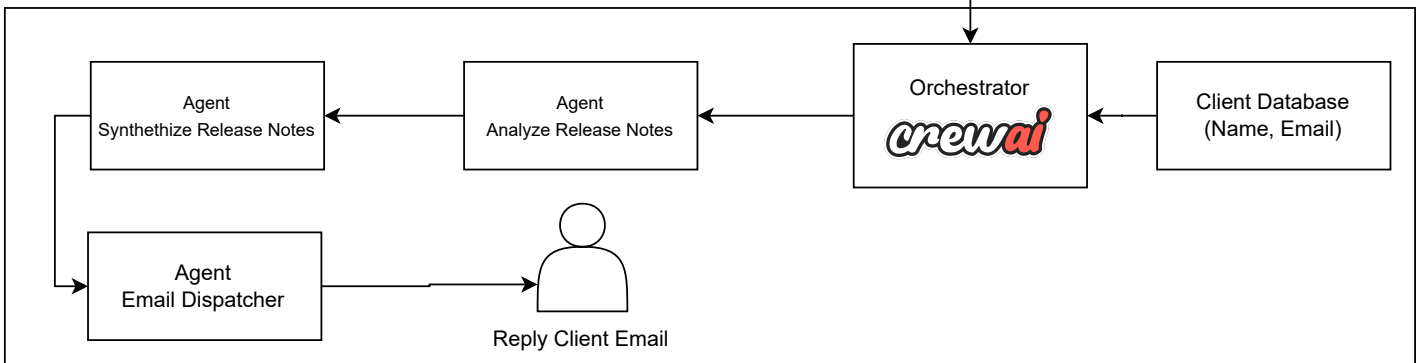
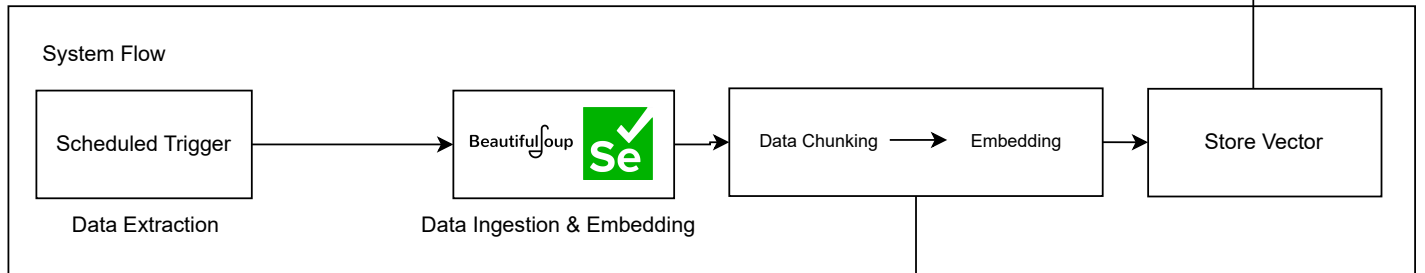
User Flowchart



QnA Layer (RAG)



Database Layer



Weekly Notes Layer