

Knowledge Relay

AI-based Knowledge sharing Agent

Presented by: **Team AI বদা**

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🧩 The “Oh No, He Left!” Problem

Dev A

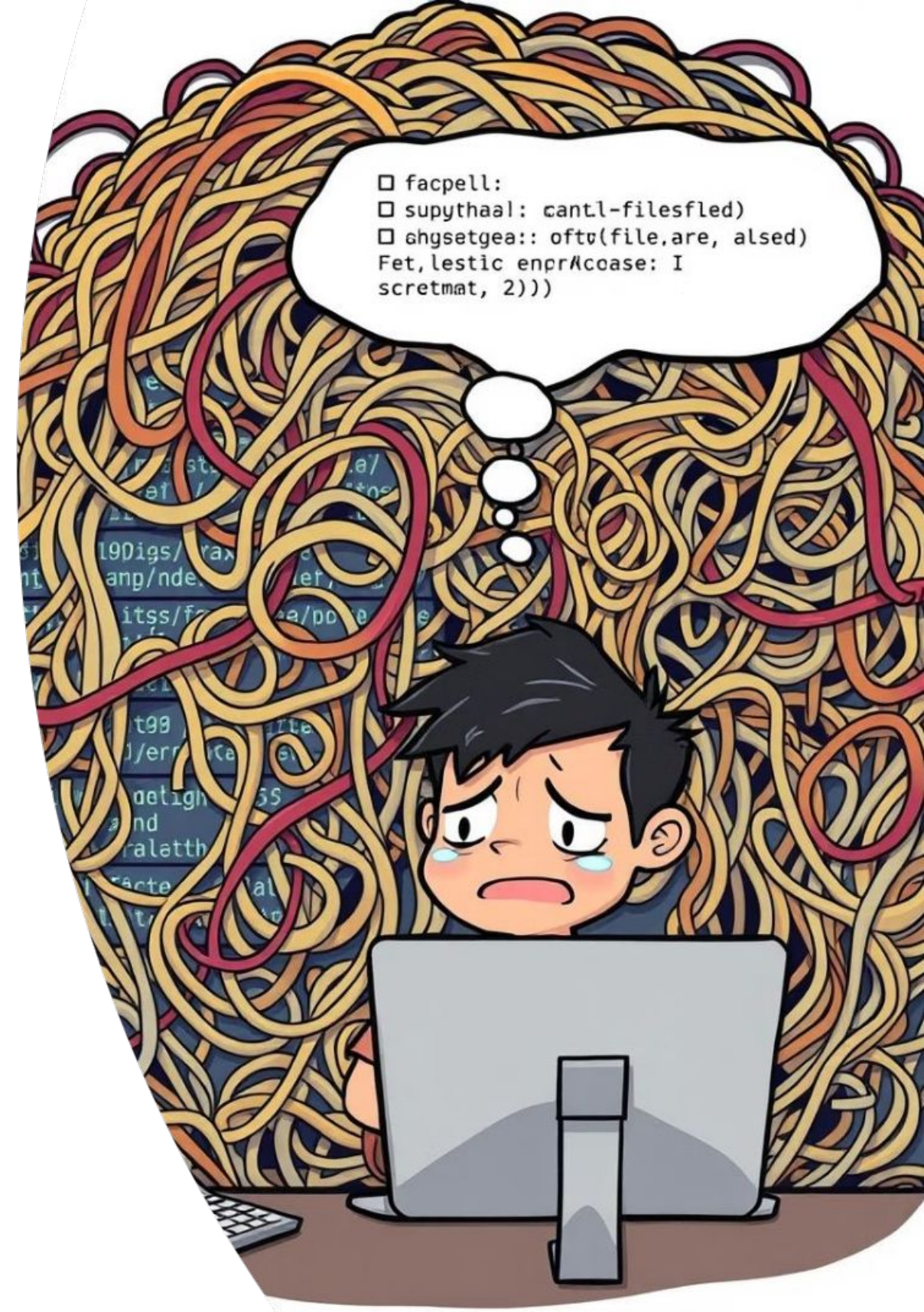
Holds project secrets and buried code mysteries 🦴

Dev B

Arrives motivated but clueless about the codebase

Knowledge Lost

Info vanishes like a deleted mystery branch without merge





Enter: AI to the Rescue

1

Dev A uploads knowledge

2

AI absorbs it all

Not literally, but close enough 🧐

3

Dev B asks questions

- “What’s the flow?”
- “Where’s the PDF generator?”
- “Why ‘doNotTouchThisMethod()’?”

4

AI acts like calm Yoda

Answers amidst commit chaos

Agent Process Flow

Overall Project QA

LLM generates initial questions from system prompt, adapting based on answers.

Knowledge Base

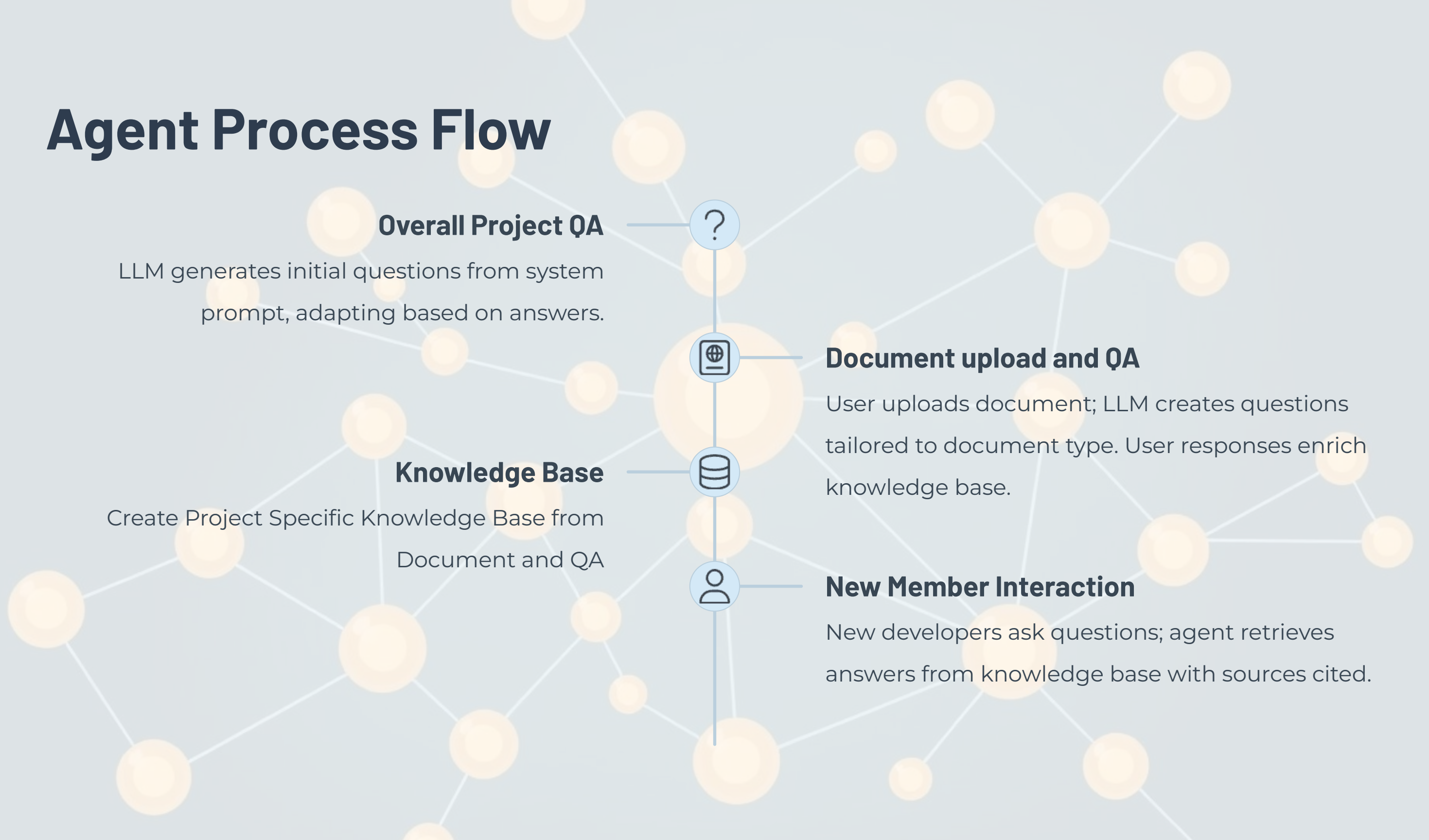
Create Project Specific Knowledge Base from Document and QA

Document upload and QA

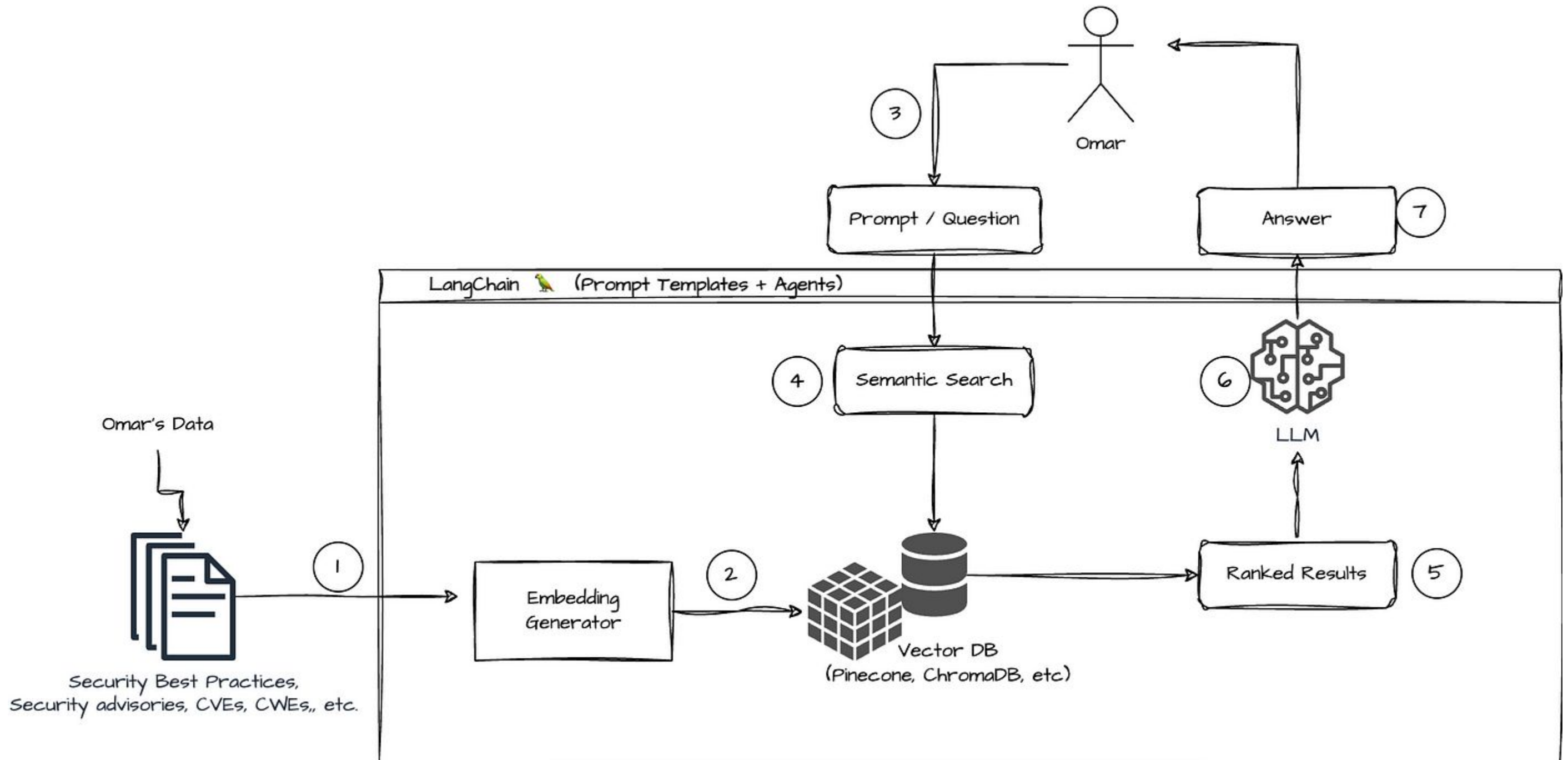
User uploads document; LLM creates questions tailored to document type. User responses enrich knowledge base.

New Member Interaction

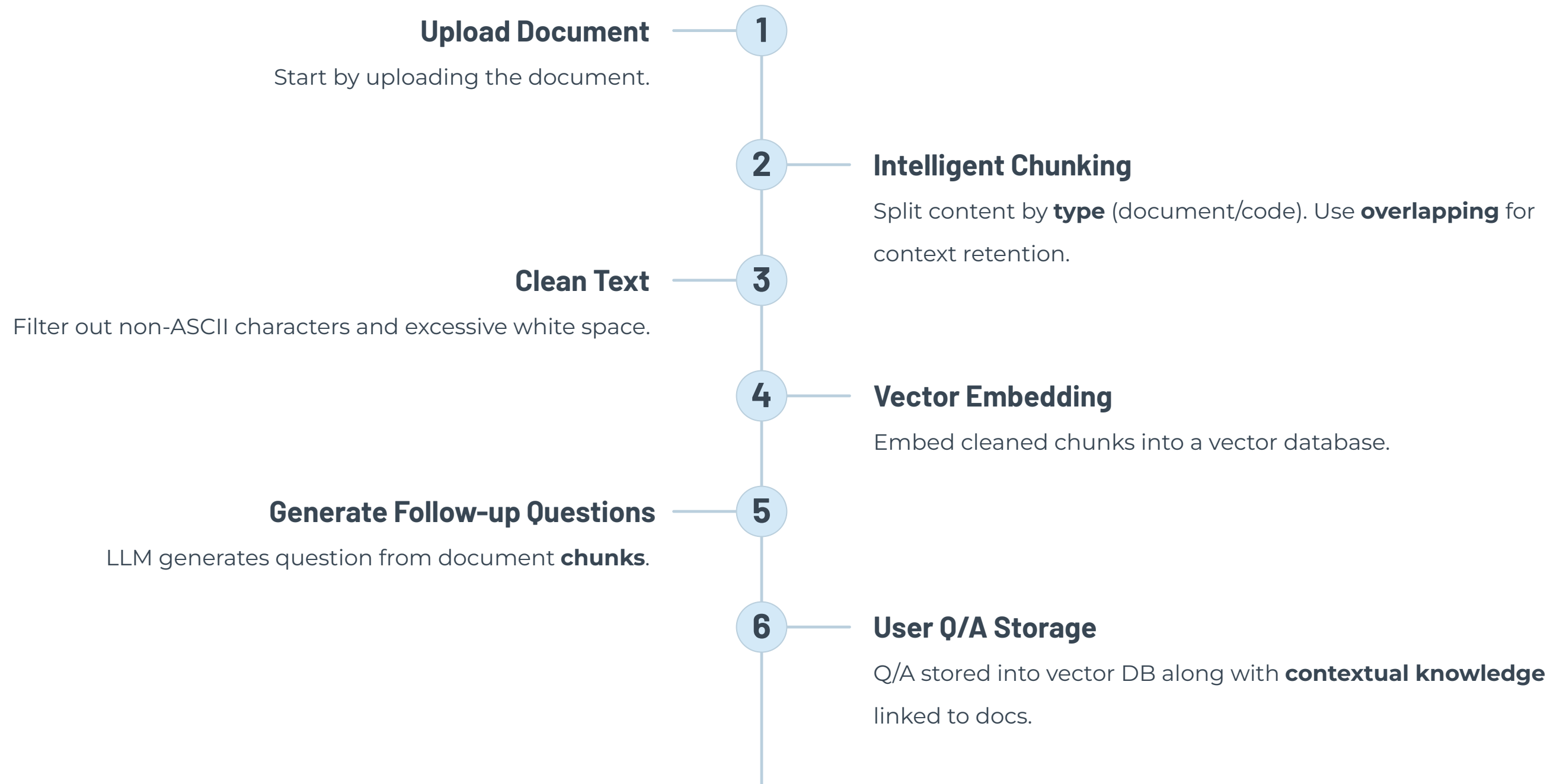
New developers ask questions; agent retrieves answers from knowledge base with sources cited.



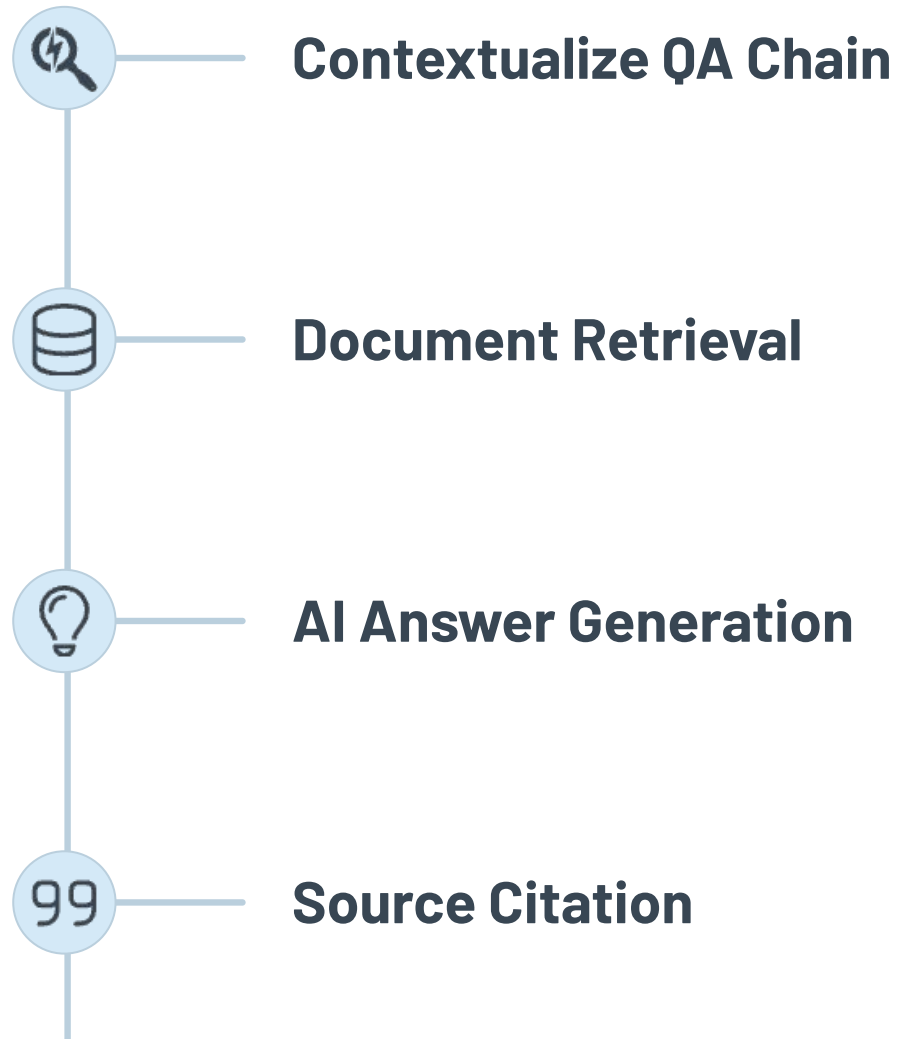
Architecture



Knowledge Ingestion Flow



Retrieval Flow



Example transformation by
Contextualized QA Chain

Original conversation:

- User: "Tell me about the authentication system"
- AI: "The system uses JWT tokens with OAuth2..."
- User: "How do we handle token expiration?"

What contextualize_q_chain does:

- Input: "How do we handle token expiration?" + chat history
- Output: "How does the authentication system handle JWT token expiration?"



What's Powering the Magic?

RAG Architecture

Combines retrieval with generation

FastAPI backend with React chat UI for users

LangChain

Context-aware answer orchestration

ChromaDB

Stores developer wisdom as vectors

OpenRouter

Flexible AI model access

Future Features

- Git, Jira, Openproject integration
- Embed auto-generated documentation of code for better semantic search

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