

ASSESSMENT DOCUMENTATION

By Smarika Sharma

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WORKFLOW

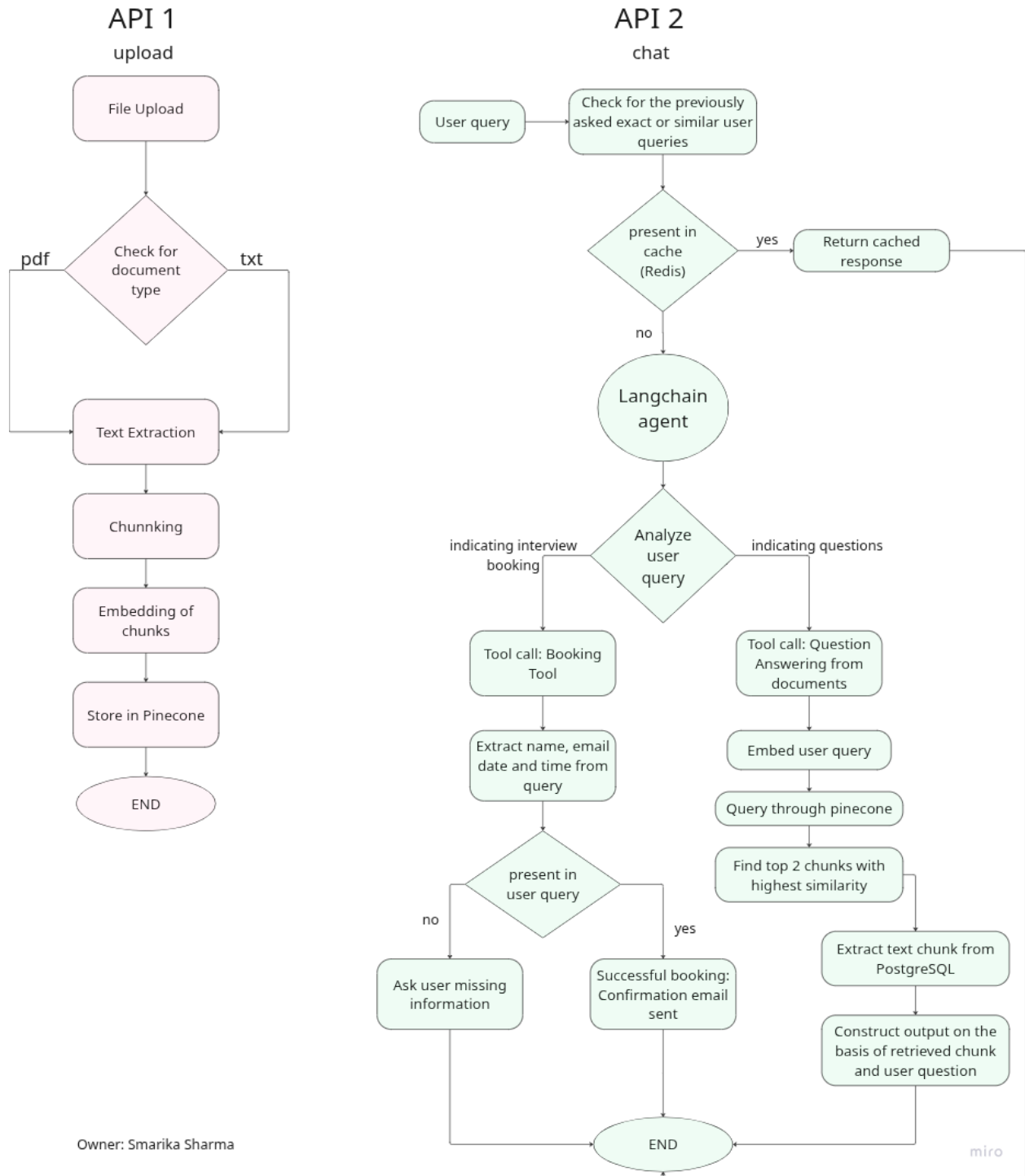


Figure 1 : Project Workflow

API 1 : UPLOAD

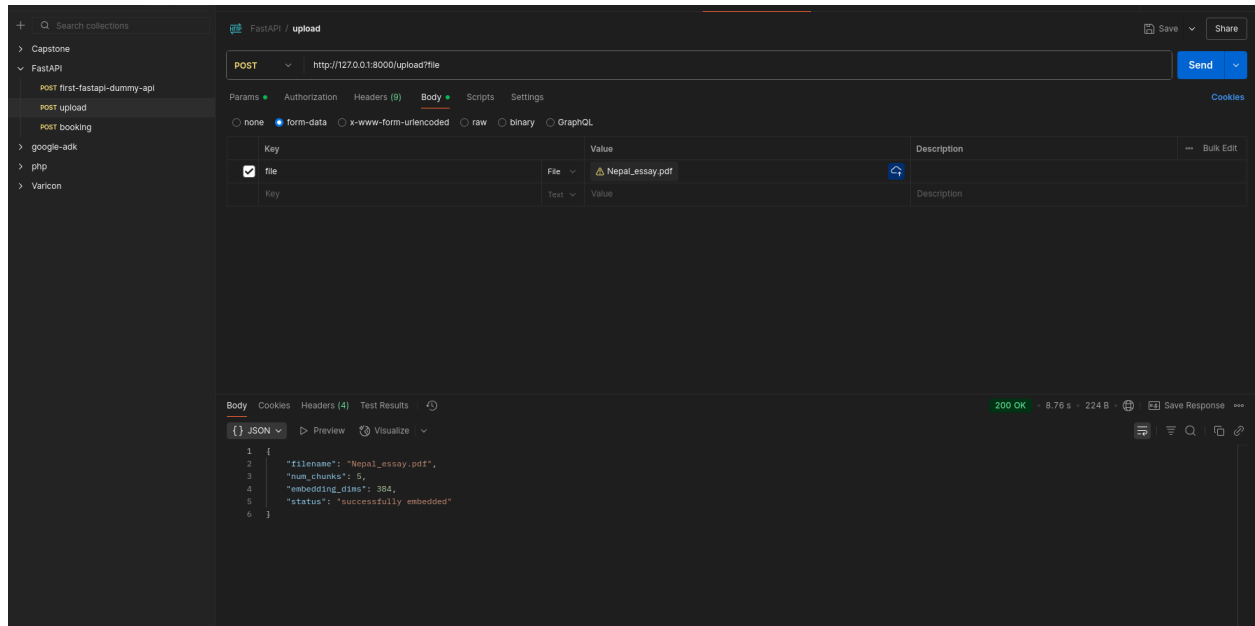


Figure 2: Pdf uploaded which is embedded and stored in vector database, Pinecone

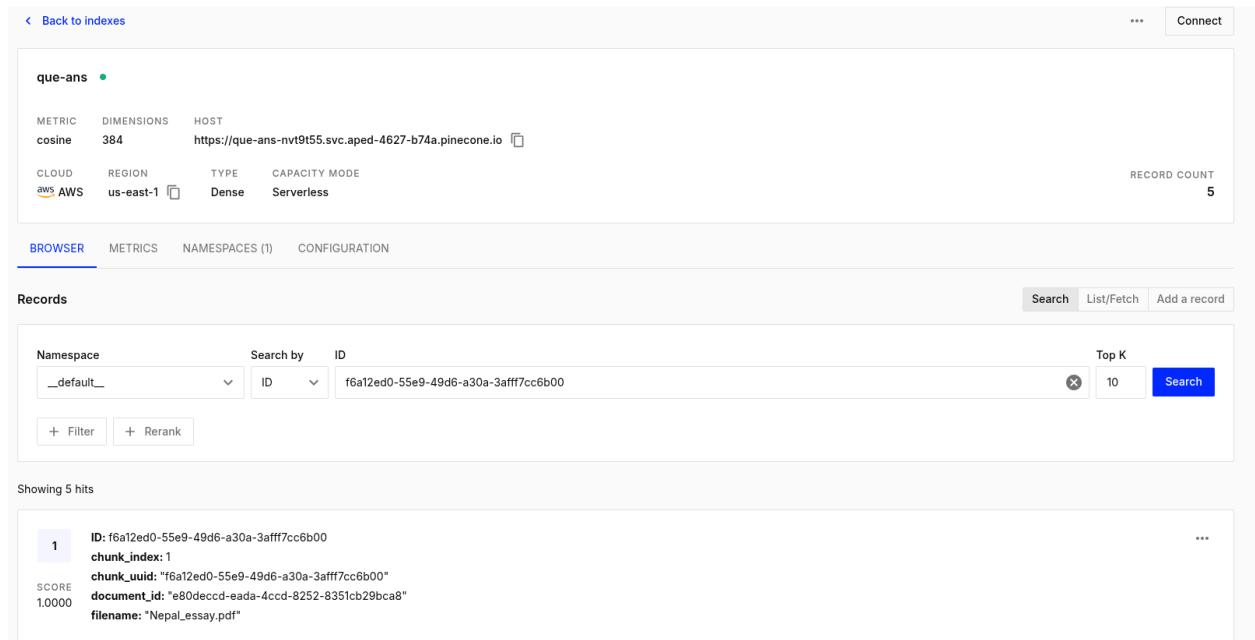


Figure 3: Text extracted from pdf, chunked, embedded and stored in Pinecone index

API 2 : CHAT

This API implements RAG based agentic framework for handling user query and answering user questions.

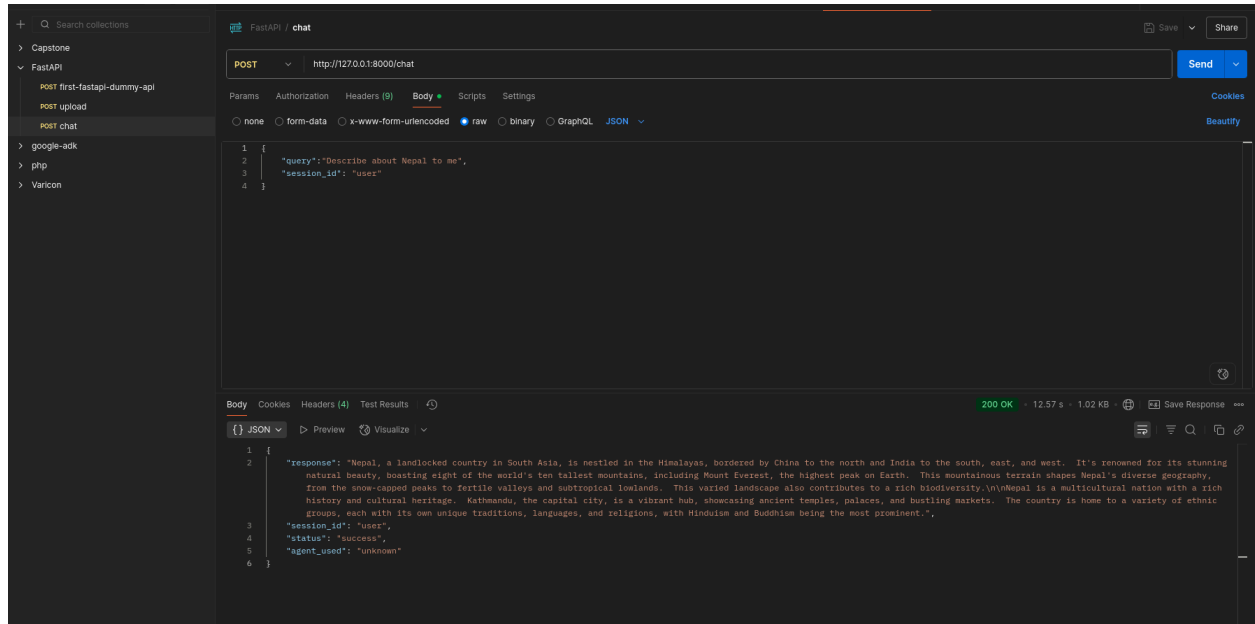


Figure 4: User question being answered with extracted context using RAG (pinecone and metadata in PostgreSQL)

Here, the API took 12.5 seconds to be executed.

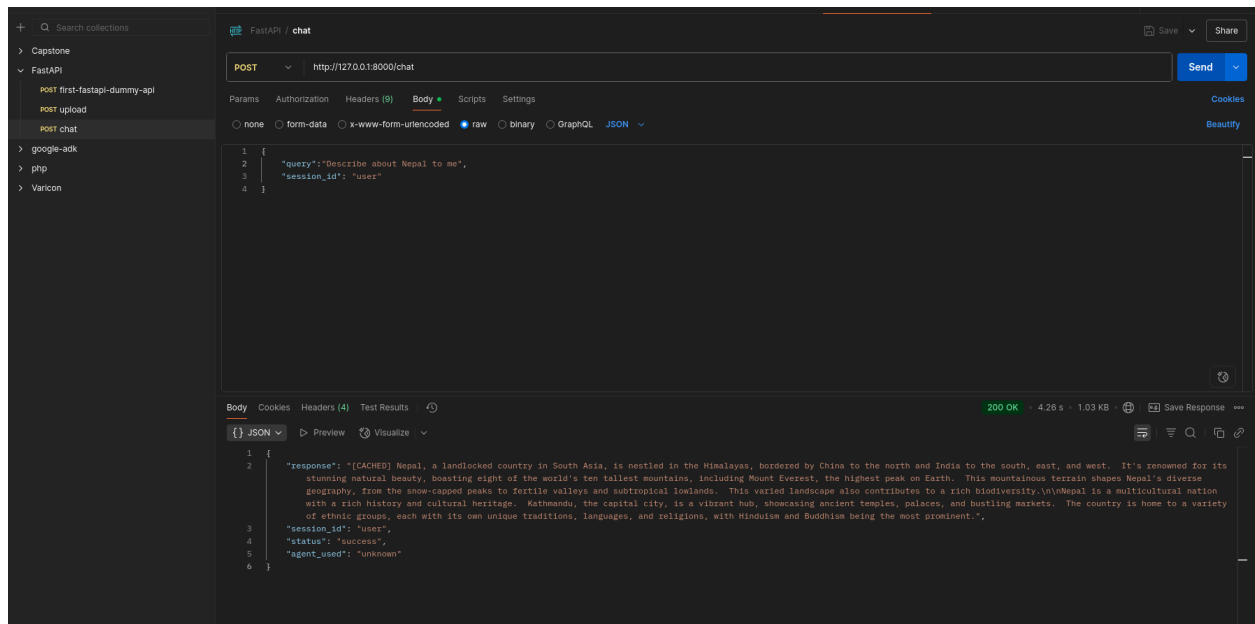


Figure 5: Quicker API response time after implementation of Redis (caching)

- **Booking of an interview:**

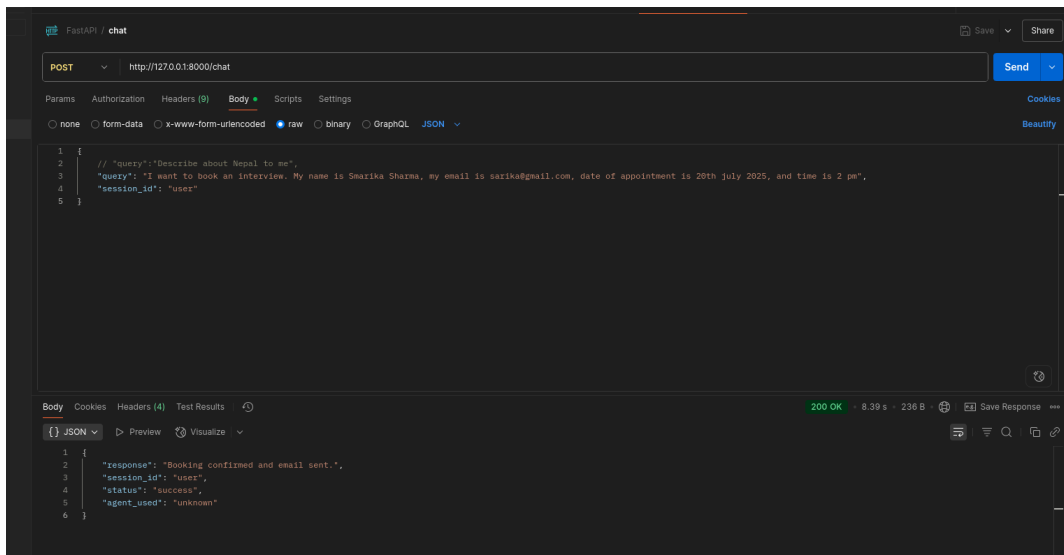


Figure 6: Name, email, date and time being extracted from the query by agent to book for an interview

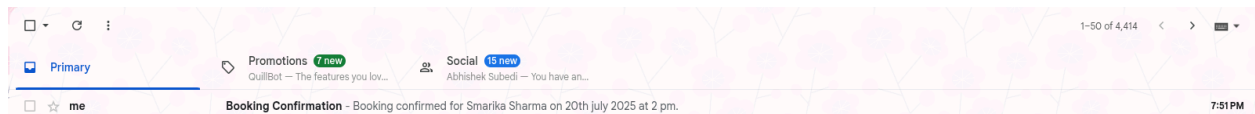


Figure 7: Email of booking sent to the mail

- **Conversational/ Context Remembrance with the use of session**

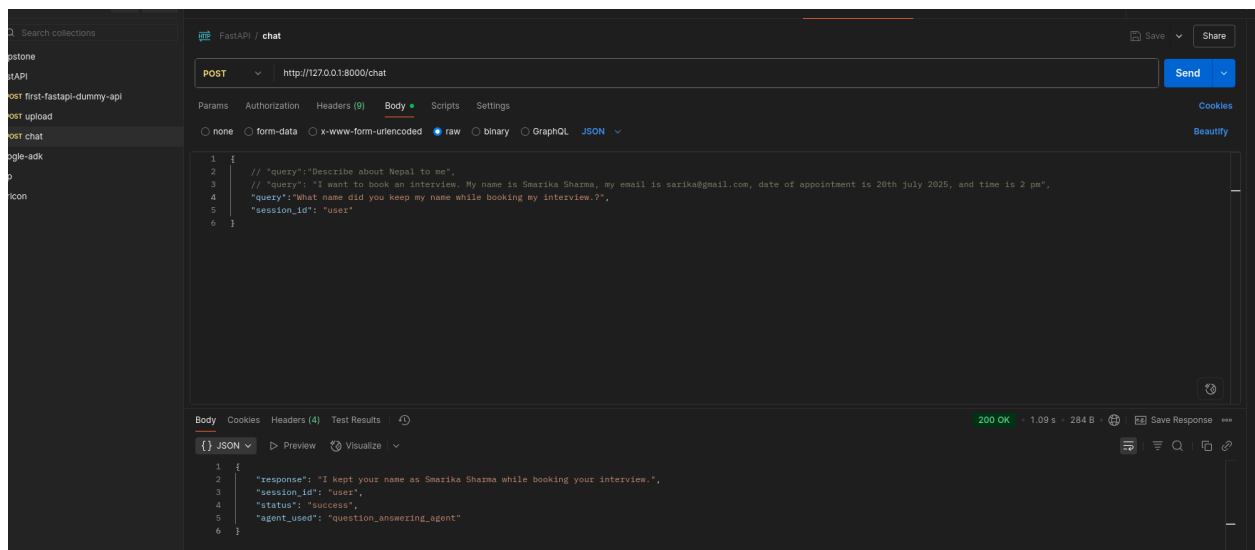


Figure 8: Agent answers the previous conversation's context when asked