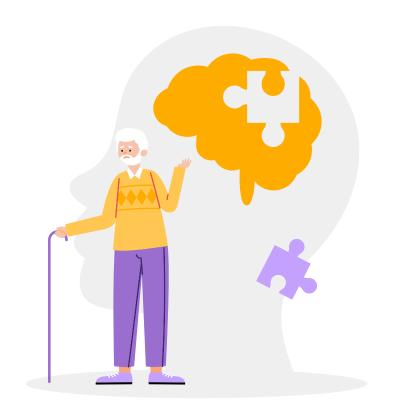
NevrForget

A mobile app that aims to refresh elderlies' memories to help them cope with dementia.



Background

Case Study

WHO: Approximately **50 million** worldwide have dementia, with **10 million** new cases annually.

Problem

Lack of personalized memory aid solutions for elderly with dementia.

Solution

Growing demand for mobile memory aids with chat and gamified features.

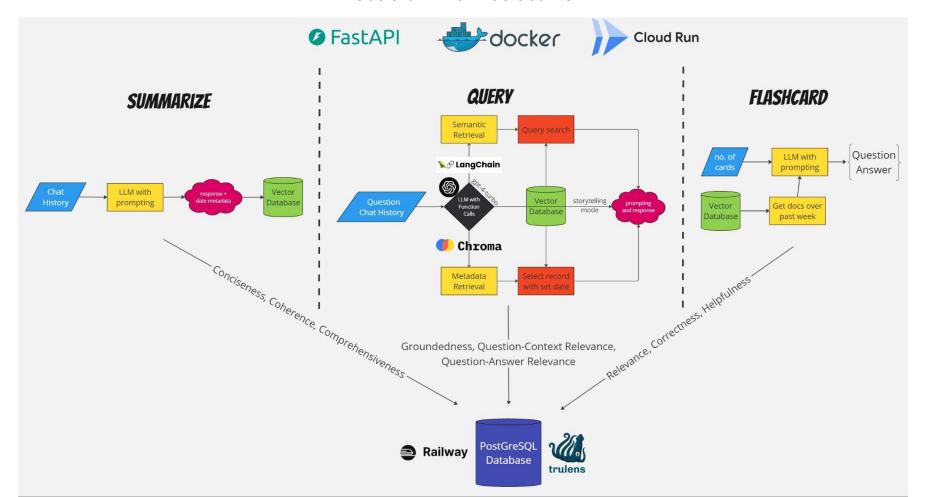


OpenAI Models

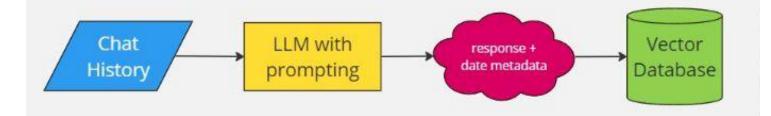
- GPT-3.5-Turbo for LLM
- 2. Text Embedding for vector search
- 3. Whisper for voice assistant
- 4. DALL-E for avatar
- 5. Vision (coming soon)



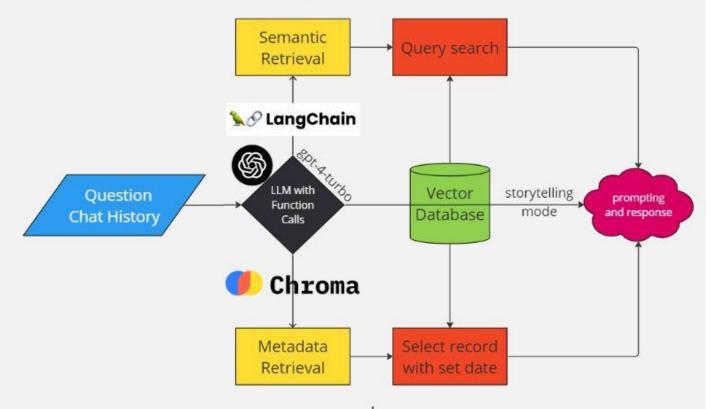
Cloud Architecture



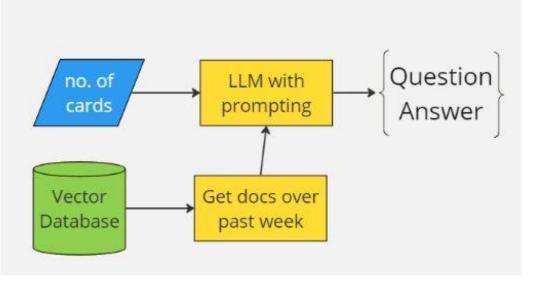
SUMMARIZE







FLASHCARD



Basic Retrieval VS Conversation Multi-Retrieval Chain

You: hello

AI: "I don't know."

You: where i had my painting class?
Al: "You had your painting class at the

community center."

You: what i do on 20 feb?

AI: "I don't know."

You: how about next day?

AI: "I don't know."

You: i had fun today at school

AI: "I don't know."

You: quit

You: hello

Al: "Hello! How can I assist you today?" You: where i had my painting class?
Al: "You had your painting class at the

community center."

You: what i do on 20 feb?

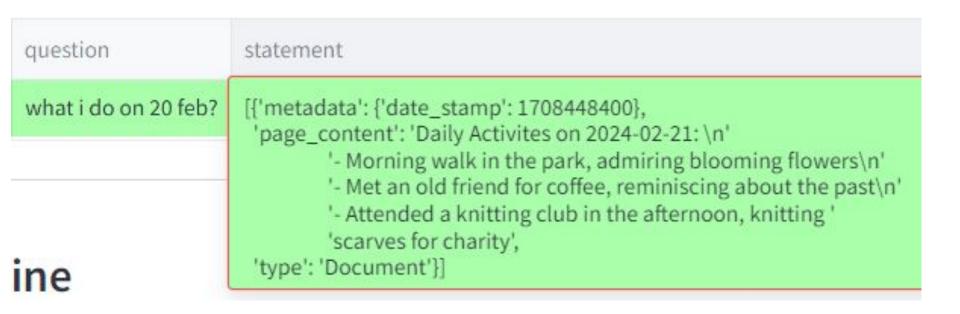
Al: "On February 20, 2024, the person attended a painting class for the first time at the community center, experiencing initial clumsiness with the brush which eventually turned into a comfortable rhythm.

You: how about next day?

Al: "On February 21, 2024, the person started their day with a morning walk in the park, appreciating the sight of blooming flowers.

You: i had fun today at school

AI: "\"That sounds lovely! What did you do at school today that made it so fun?\""



Importance of MetaData Retrieval

Trulens-Eval Results

Conversation Multi-Retrieval Chain Output Description:

Records

Average Latency (S... Total Cost (USD)

Total Tokens

qs_relevance

relevance

groundedness_me...

3.75

\$0

0.85 high

1.0 ✓ high 1.0

high

Flashcards ®

Records

Average Latency (S... Total Cost (USD)

Total Tokens

helpfulness

relevance with co... correctness

9

\$0

0.8 high 1.0 ✓ high

0.88 ✓ high

Summary [®]

Records

Average Latency (S... Total Cost (USD)

Total Tokens

comprehensivene...

coherence

✓ high

conciseness

3

\$0

0.93 high

8.0

0.8 high

Moving Forward

