

Mobile Application for E-learning

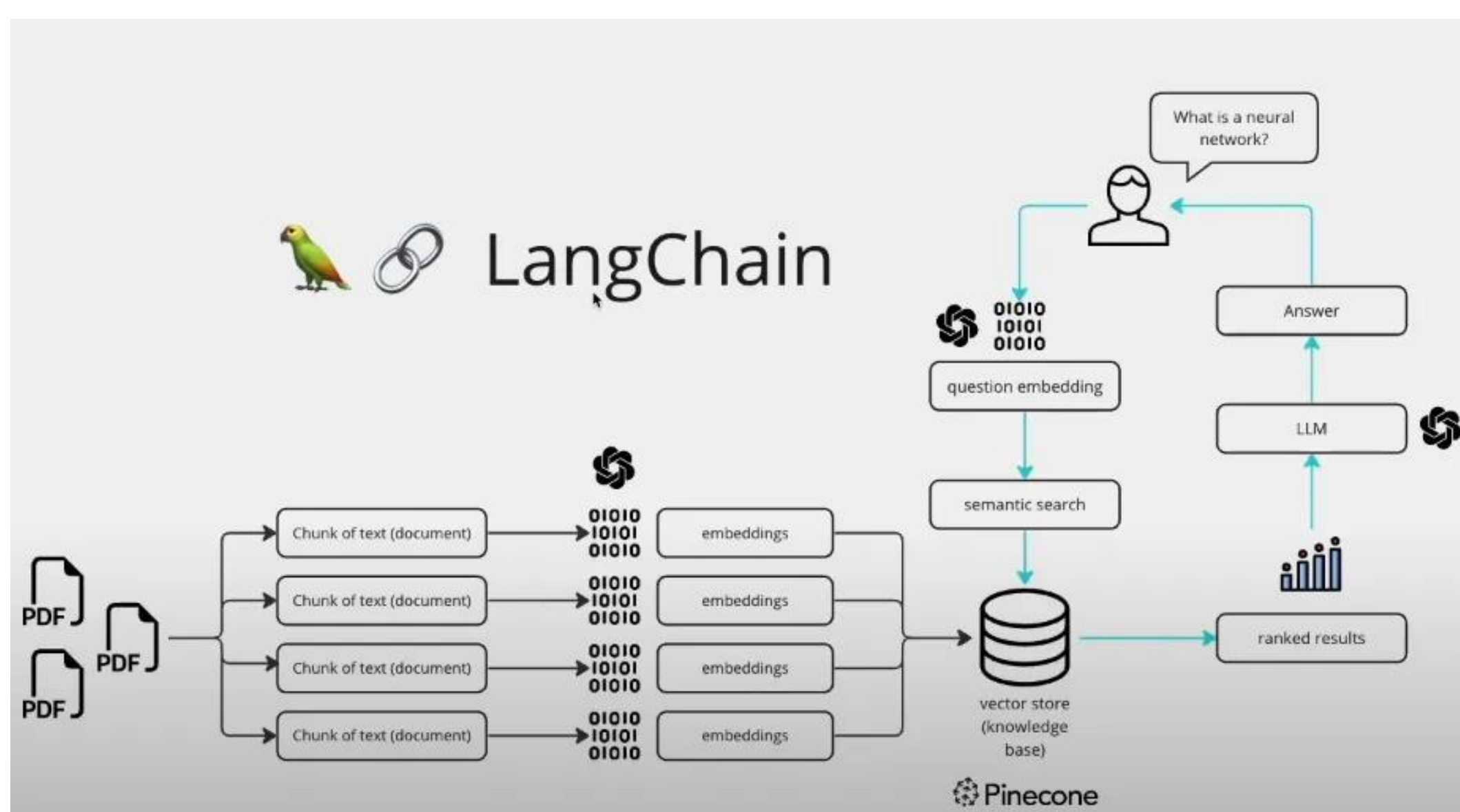
HUANG Jianfeng (INFE)
Supervisor: Prof SO, HC

Objective/Background

- Facilitating seamless knowledge sharing.
- Ensuring a 24/7 online learning experience.
- Incorporating a Private AI Assistant tailored to the user's provided course materials for personalized support and guidance.

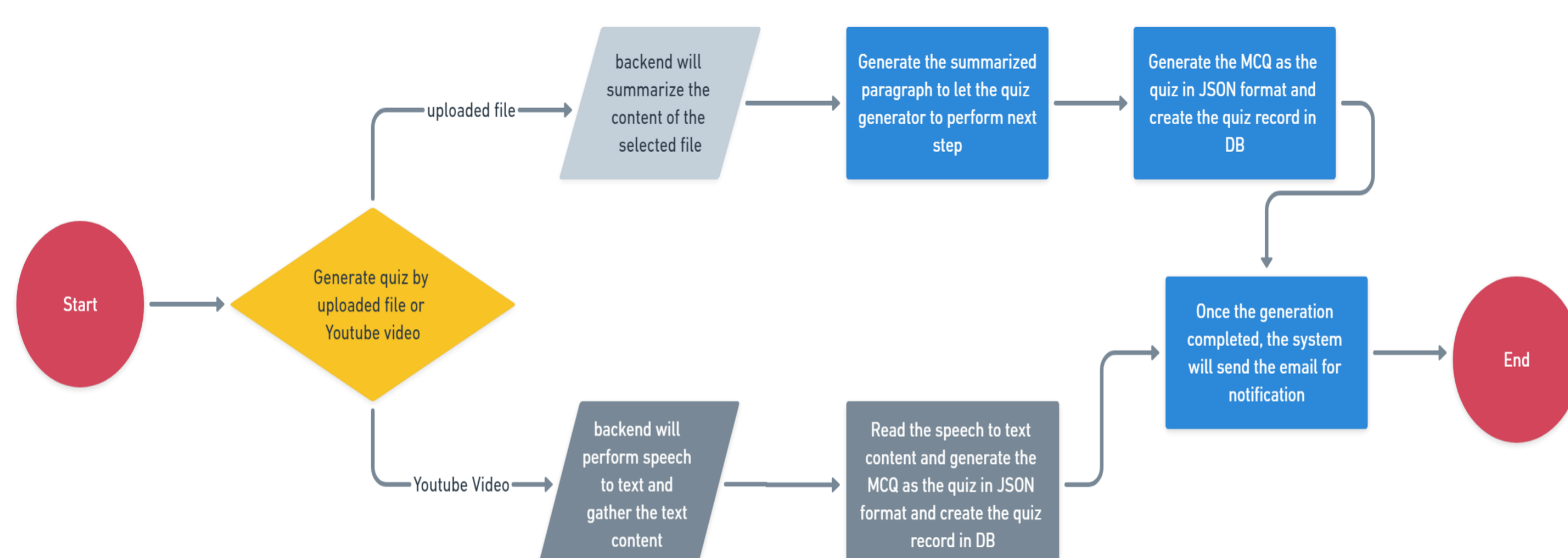
Methodology

- Using LangChain along with OpenAI's GPT model and React Native to develop an e-learning application.



Retrieval-Augmented Generation (RAG)

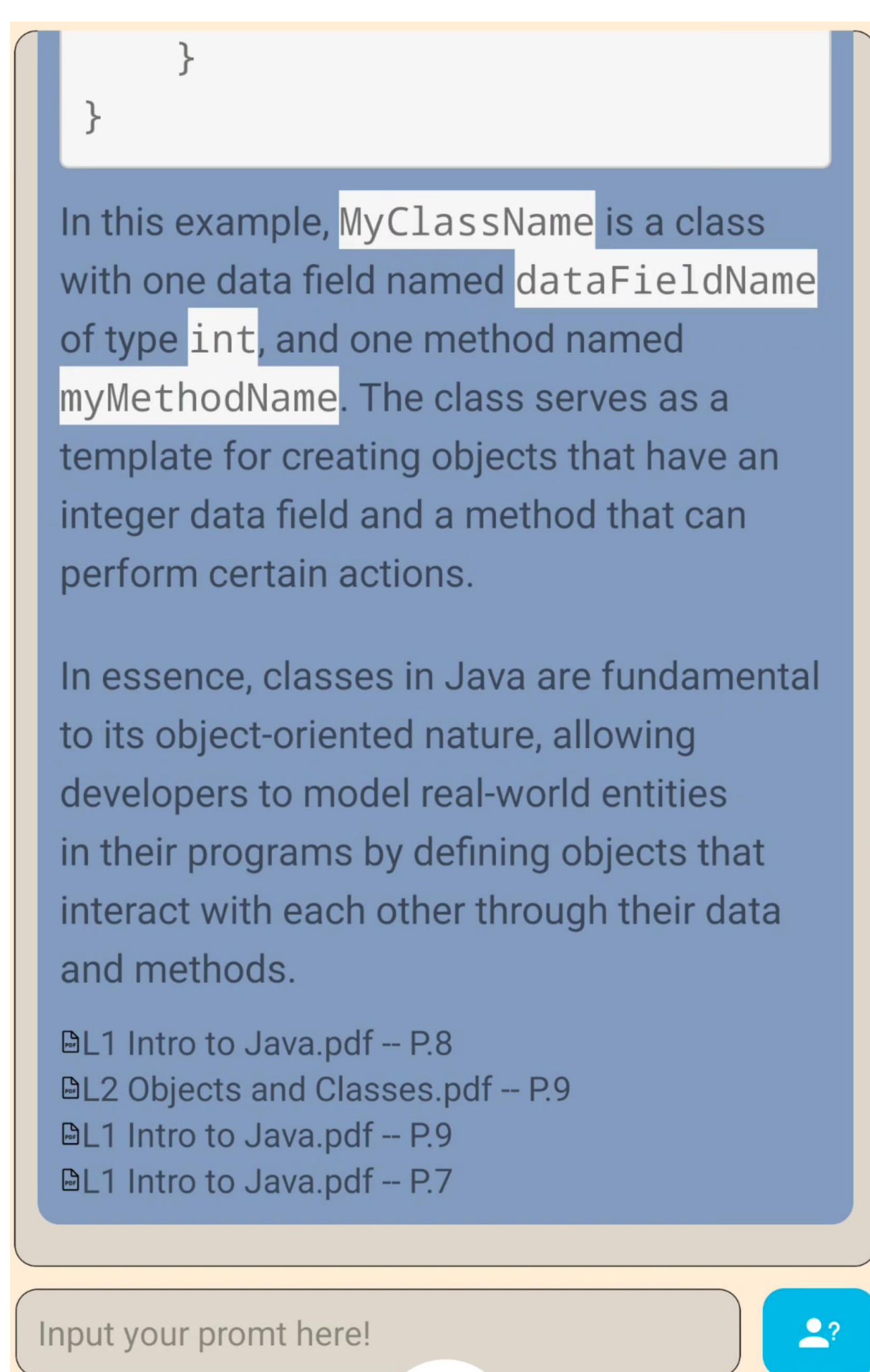
Using RetrievalChain from LangChain along with the vector database will generate the result based on the uploaded documents from users, and the reference documents will come with the result.



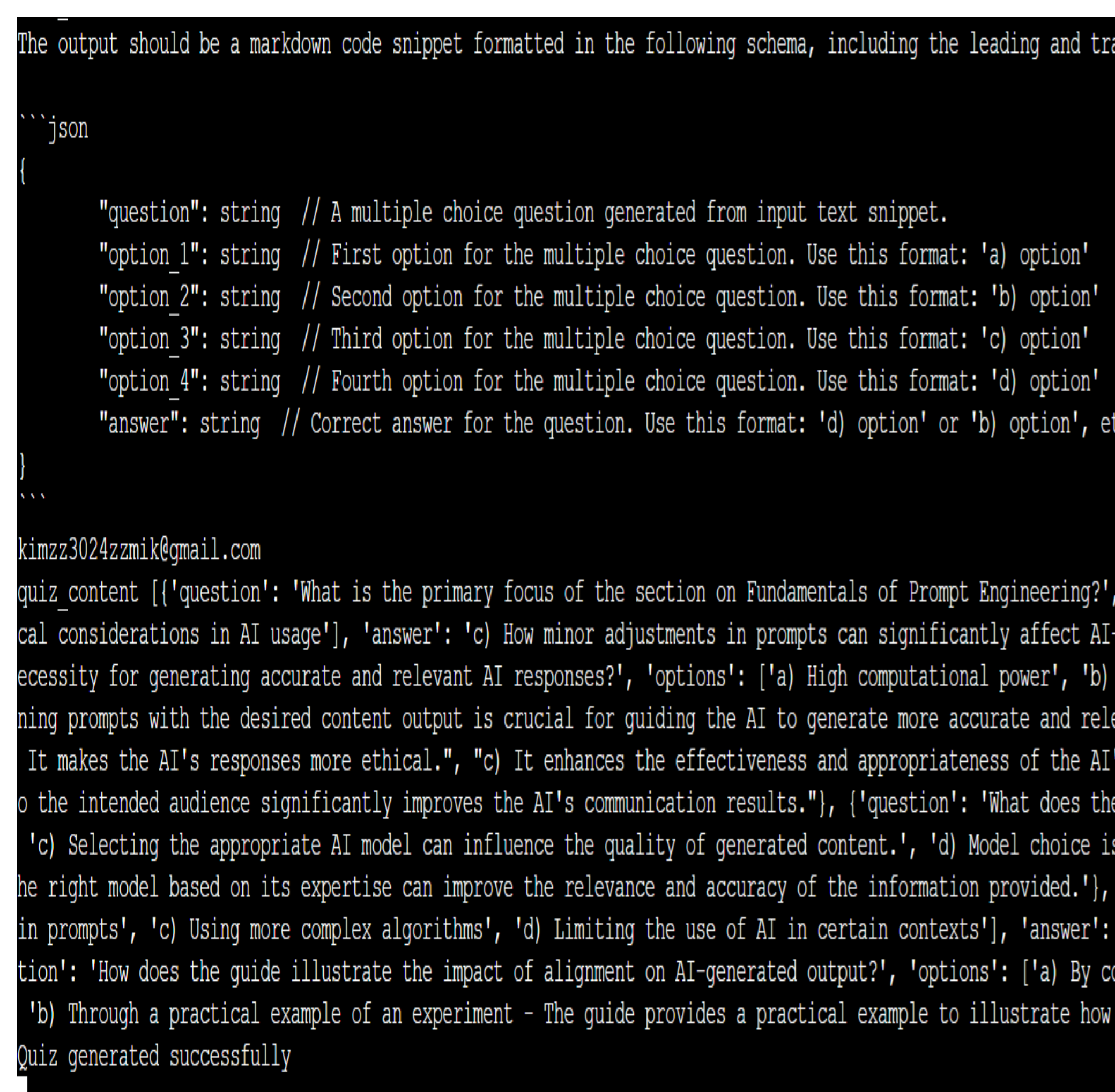
Quiz Generation (Prompt Engineering)

Give the sample output, source and instruction to the LLM, it will help to generate the result and it to parse to JSON format.

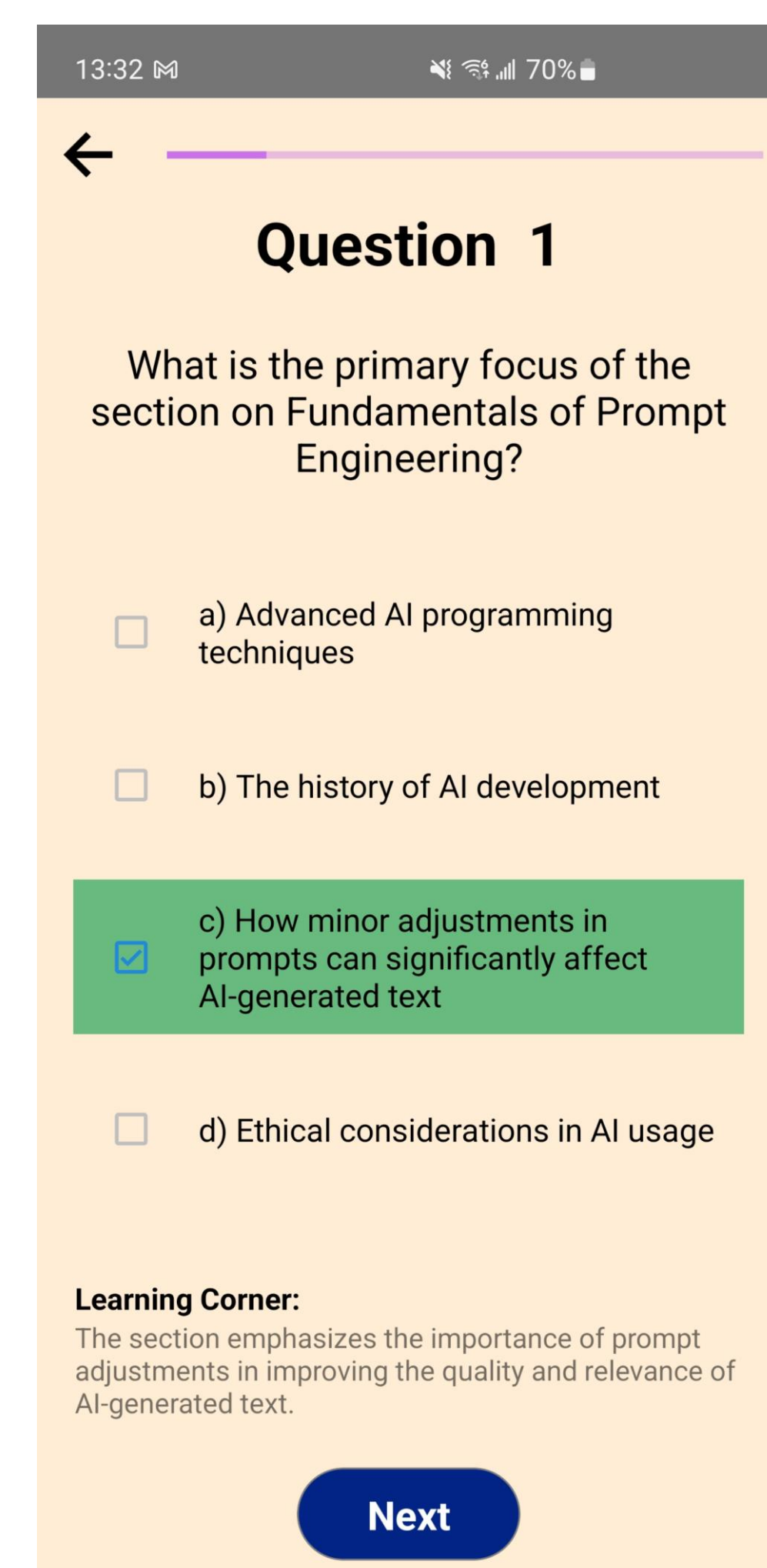
Results/Application (if any)



(RAG Result)



(Quiz Generation Result)



(Quiz exercise on App)

