Mission Quizify

Contents

Problem Statement

The goal of Mission Quizify is to leverage Google Gemini AI to develop a platform that generates personalized quizzes summarised from numbers of books and documents.

Technologies used

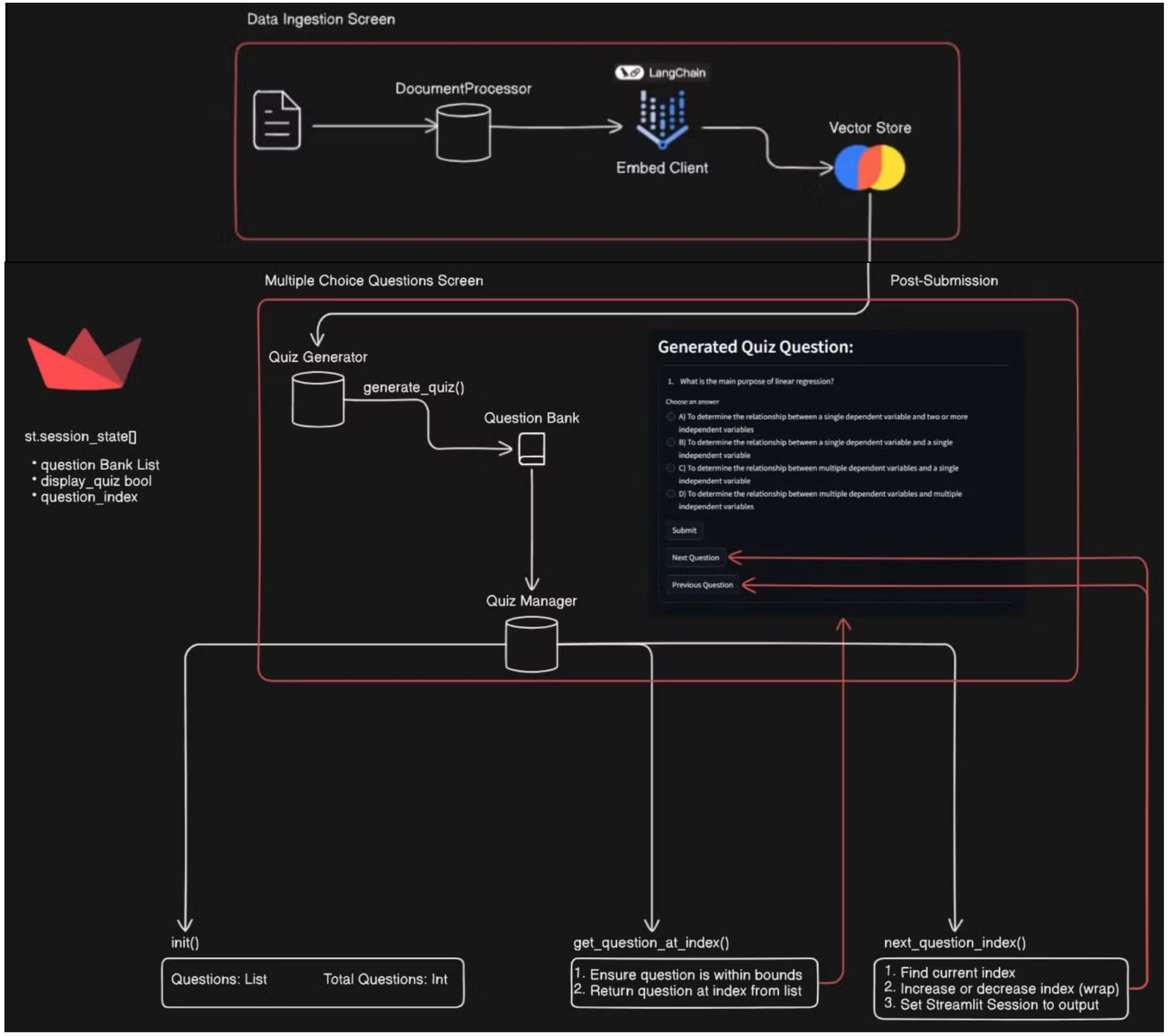
Gemini (Vertex AI)

LangChain (Croma)

Streamlit

System Architecture

- **DocumentProcessor:** Handles document ingestion and initial processing.
- **EmbeddingClient:** Uses pre-trained Gemini model for text embedding.
- **ChromaCollectionCreator:** Creates and manages collections of text embeddings.
- **QuizGenerator:** Generates quiz questions from processed content.
- **QuizManager:** Manages quiz flow and user interactions.


Data Ingestion Screen
DocumentProcessor
LangChain
Embed Client
Vector Store
Multiple Choice Questions Screen
Post-Submission
Quiz Generator
generate_quiz()
Question Bank
Quiz Manager
st.session_state[]
• question Bank List
• display_quiz bool
• question_index
Generated Quiz Question:
1. What is the main purpose of linear regression?
Choose an answer
A) To determine the relationship between a single dependent variable and two or more independent variables
B) To determine the relationship between a single dependent variable and a single independent variable
C) To determine the relationship between multiple dependent variables and a single independent variable
D) To determine the relationship between multiple dependent variables and multiple independent variables
Submit
Next Question
Previous Question
init()
Questions: List
Total Questions: Int
get_question_at_index()
1. Ensure question is within bounds
2. Return question at index from list
next_question_index()
1. Find current index
2. Increase or decrease index (wrap)
3. Set Streamlit Session to output

Code Explanation
&
Output

Thank You

Pitch

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