SFBU AI Q&A Bot

Shin Cao

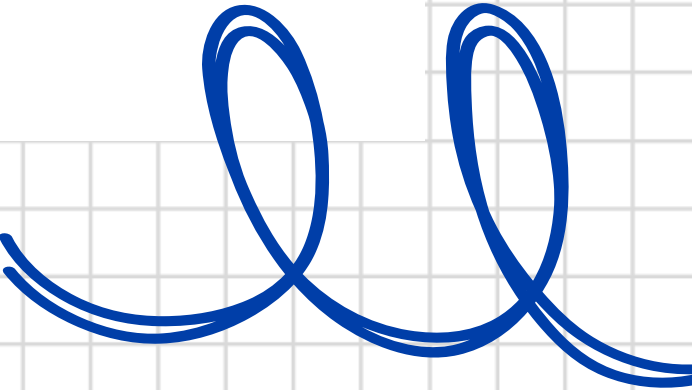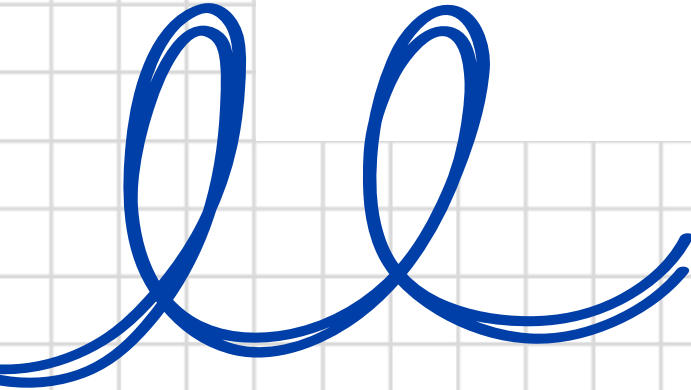San Francisco Bay University

Advisor: Dr. Chang, Henry

SFBU AI Q&A Bot: Dive into the world of San Francisco Bay University with our cutting-edge AI assistant. Designed to cater to all your SFBU-related questions, from admissions to campus events, in a conversational manner.

Voice-Enabled Insights: Leveraging state-of-the-art speech-to-speech technology, our bot offers a seamless, interactive experience, providing accurate answers orally. Ask away and hear the future of university inquiries.

FEATURES

GPT–Powered

- Goes beyond Alexa and Siri with advanced GPT models, delivering more natural and versatile conversations.
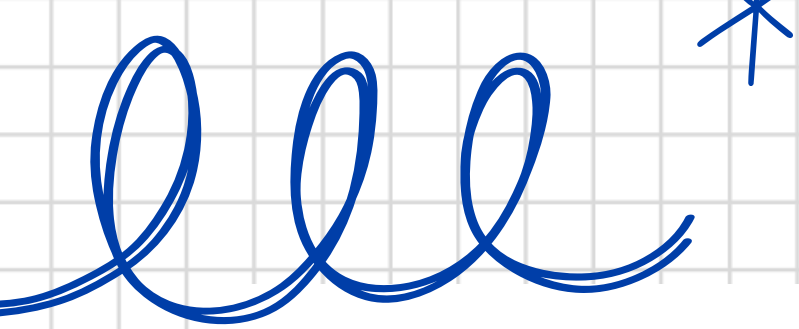
Real–time Speech

- Offers instant, accurate replies with cutting–edge technology, ensuring a smooth conversation flow.

"Hey Computer"

- Start interactions with "Hey Computer," customizing your experience for a responsive tech companion.
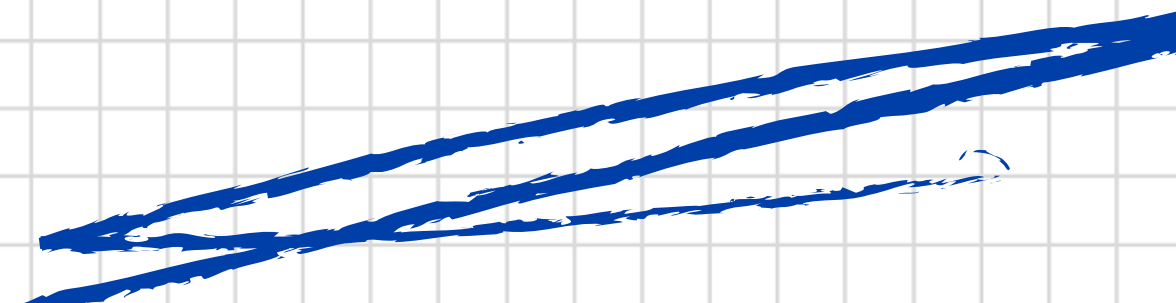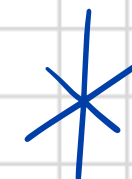
Tech Stack

Python Core programming language.

Whisper Speech recognition.

Langchain File Training (RAG)

OpenAI API Natural language processing and generation.
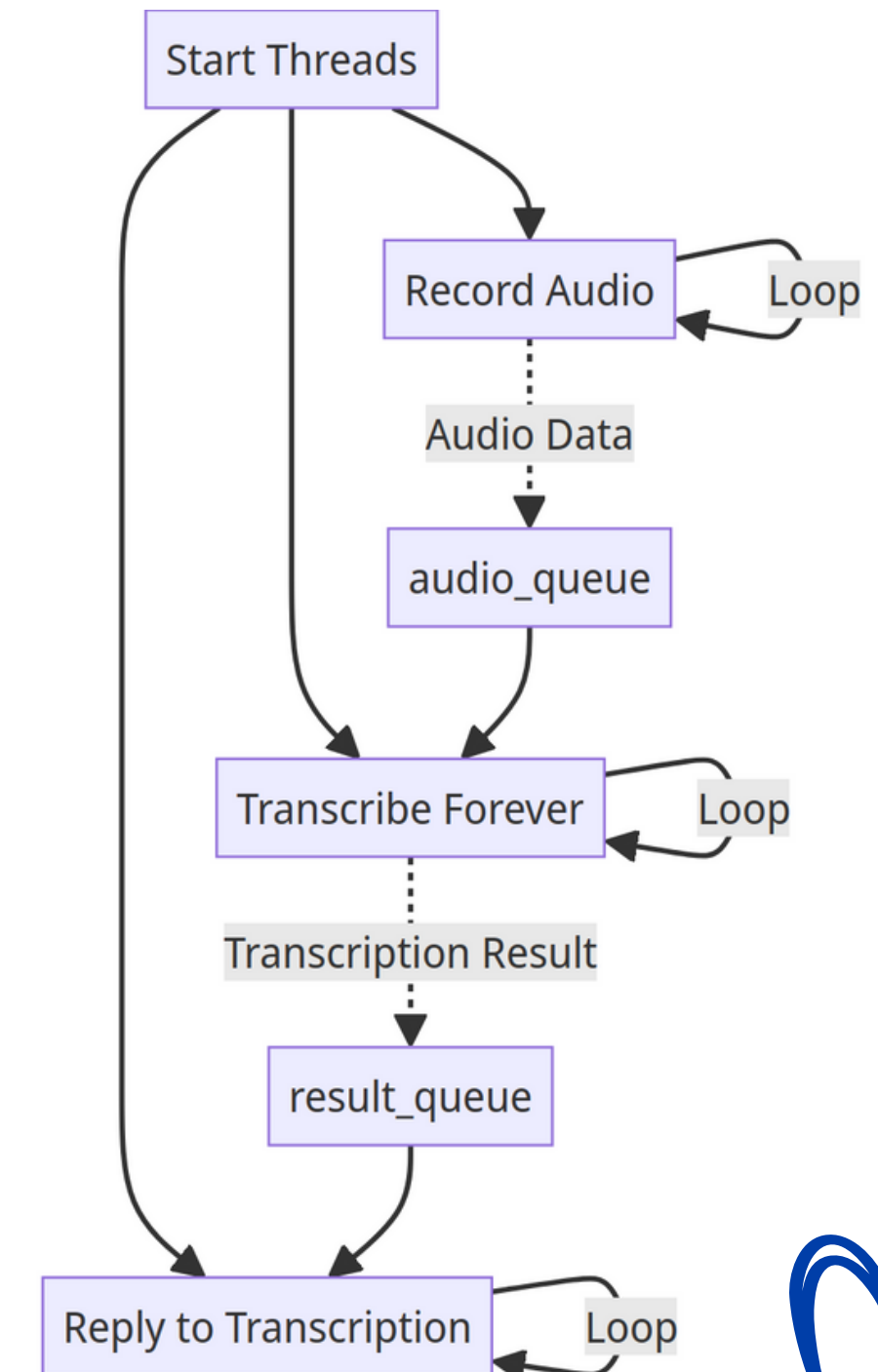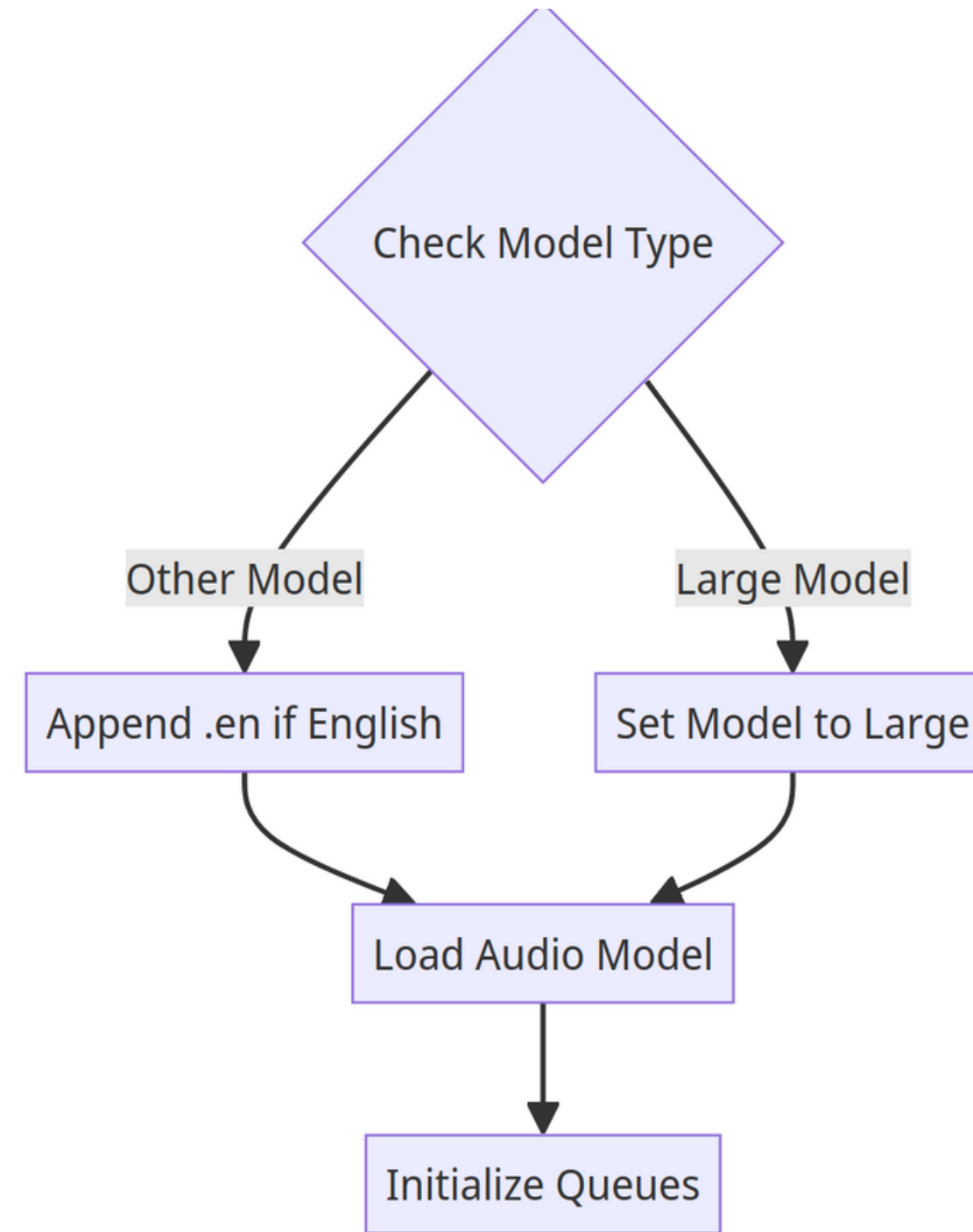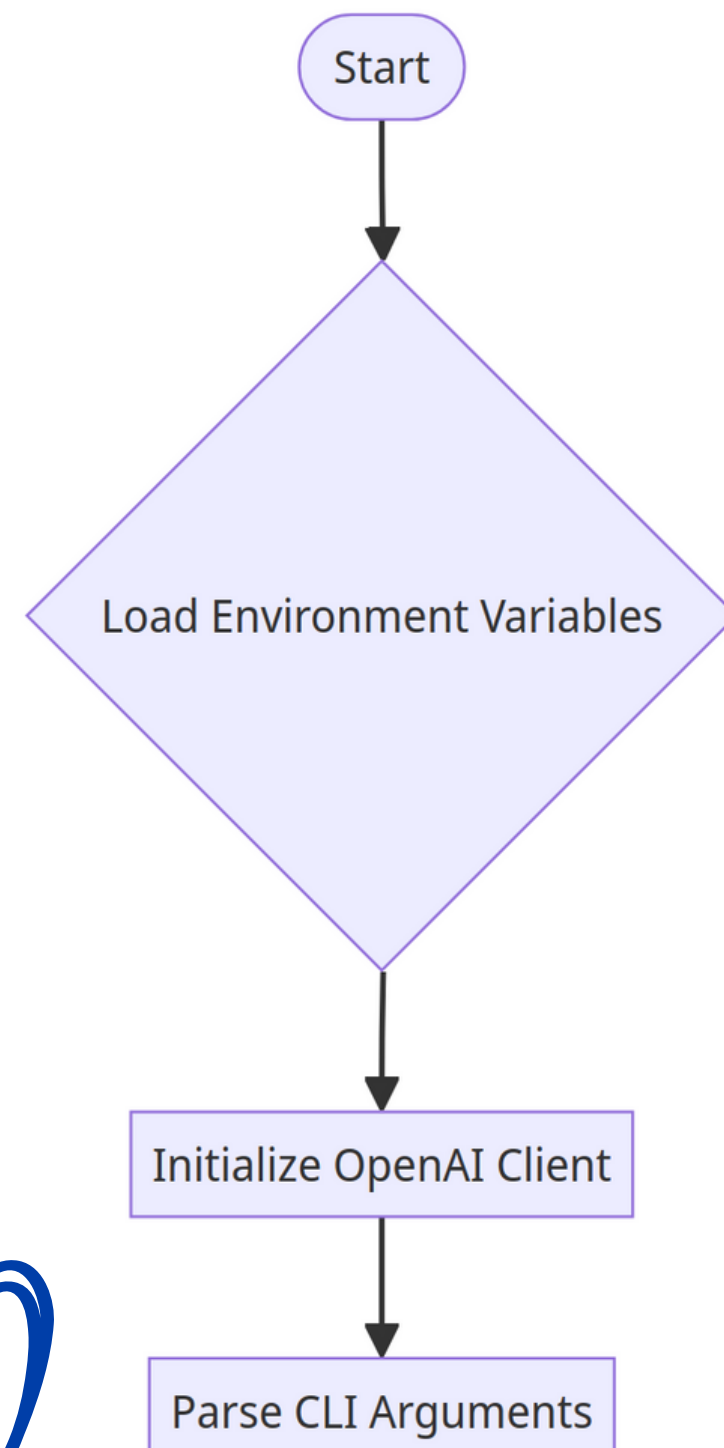
Google TTS Text-to-speech conversion.

Threading & Queue Concurrent execution and inter-thread communication.

Back-end Explained: RAG
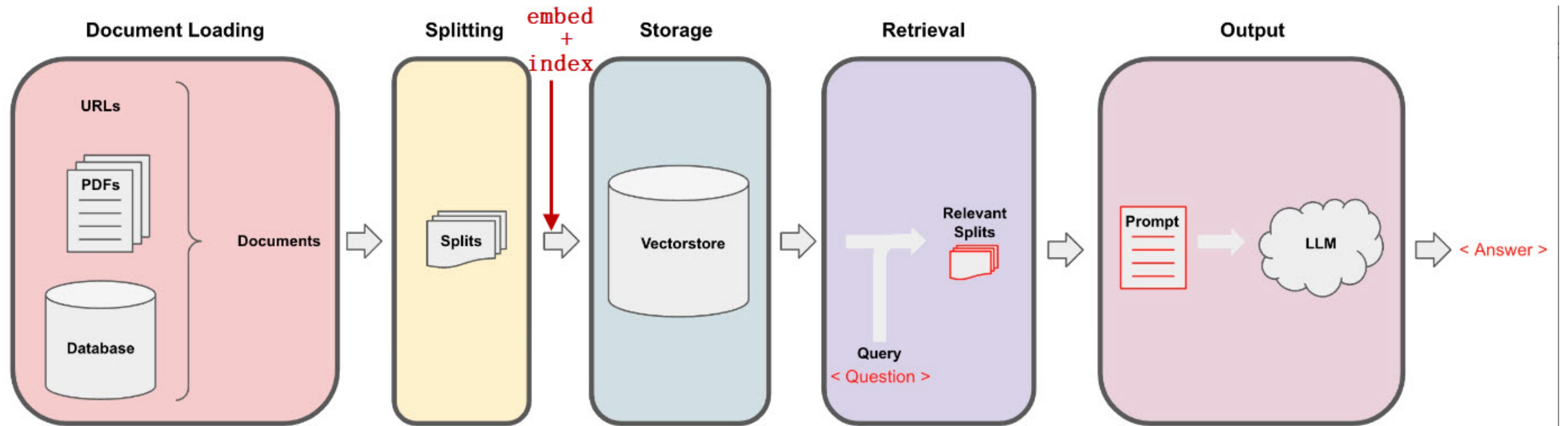
Back-end Explained: Real Time Speech

Contact Info

Shin Cao

Email

shin.ccx@outlook.com

GitHub

https://github.com/Shining-in-galaxies

Student From

San Francisco Bay University