

# STARS GPT (AI-Based Tutoring Chatbot)

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## Summary

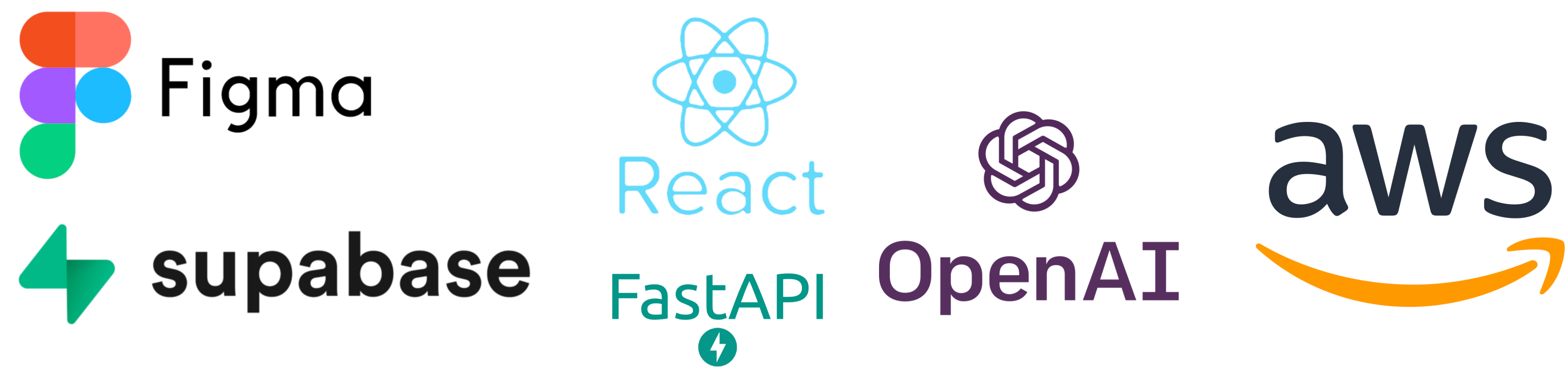
The app aims to provide a comprehensive support system for both students and STARS tutors. This chatbot can answer student questions and clarify complex concepts from the KFSCIS coursework to solidify their understanding. By combining the personalized guidance of a STARS tutor with the 24/7 accessibility of the chatbot, this application strives to create a well-rounded learning environment for FIU students.

## Problem Statement

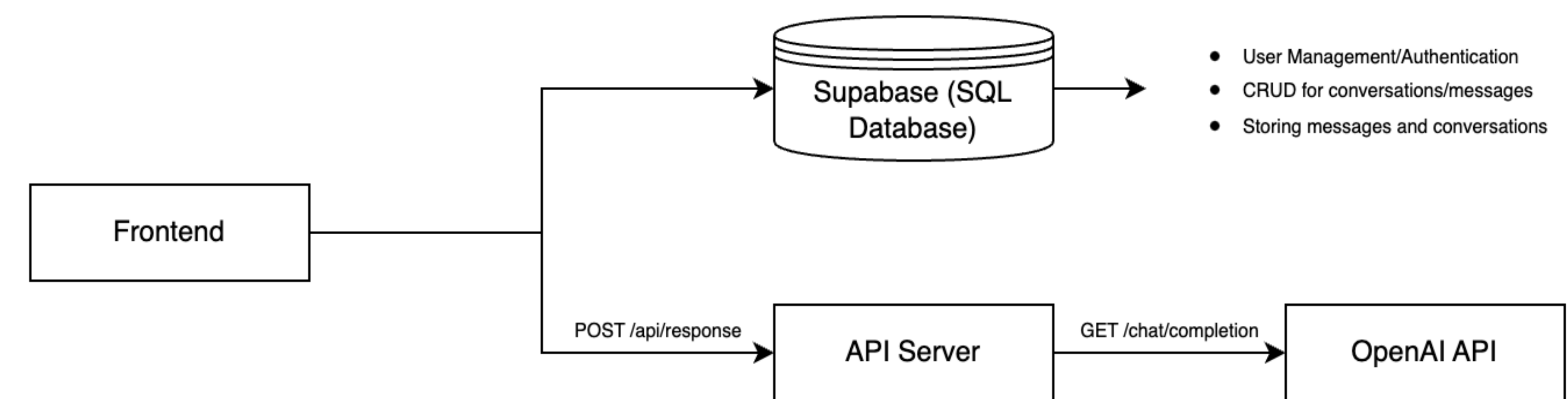
As AI LLMs like ChatGPT and Google Gemini become increasingly popular aids for students, they are becoming integral to the learning process. However, relying solely on a general-purpose model like ChatGPT can yield inconsistent outcomes, as observed in the STARS tutoring group at FIU. To address this, we developed a custom application leveraging data from past assignments by Dr. Wells to train the AI, aiming for more precise and effective responses.

## Technologies Used

- React.js:** Library for building UI Interfaces.
- Supabase:** A comprehensive Backend-as-a-Service (BAAS) that includes features such as Authentication, PostgreSQL, GraphQL, Edge Functions, etc.
- OpenAI API:** Used to get AI messages/responses.
- Figma:** For UI Design and Mockups



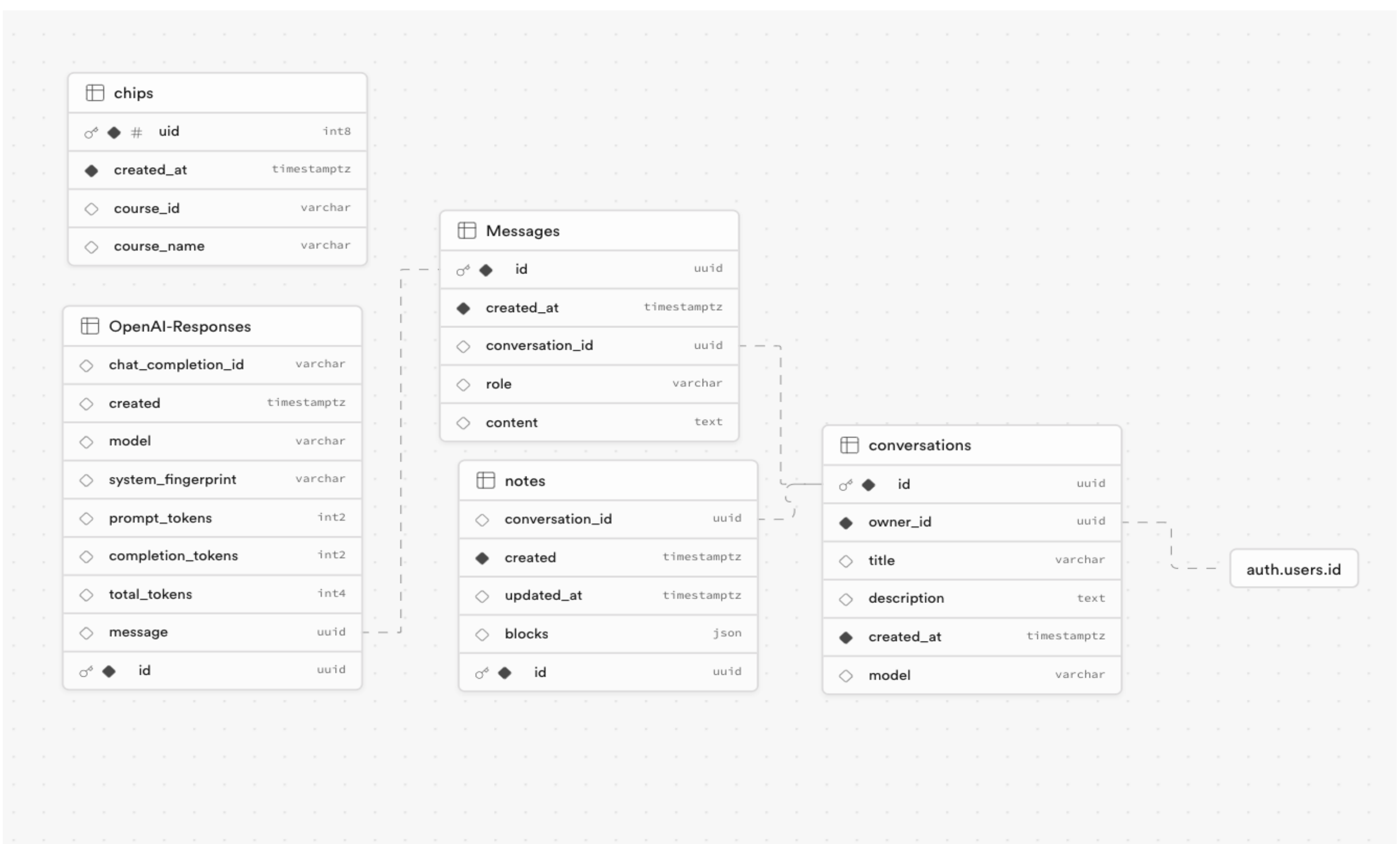
## System Architecture



## This system design follows a Server-Client Architecture

- The Supabase Database stores these pieces of information: **User Information/Accounts, conversations, messages belonging to conversation, etc.**
- The API Server is used as an intermediary to access the OpenAI API without shipping the API key to the client.

## Database Schema

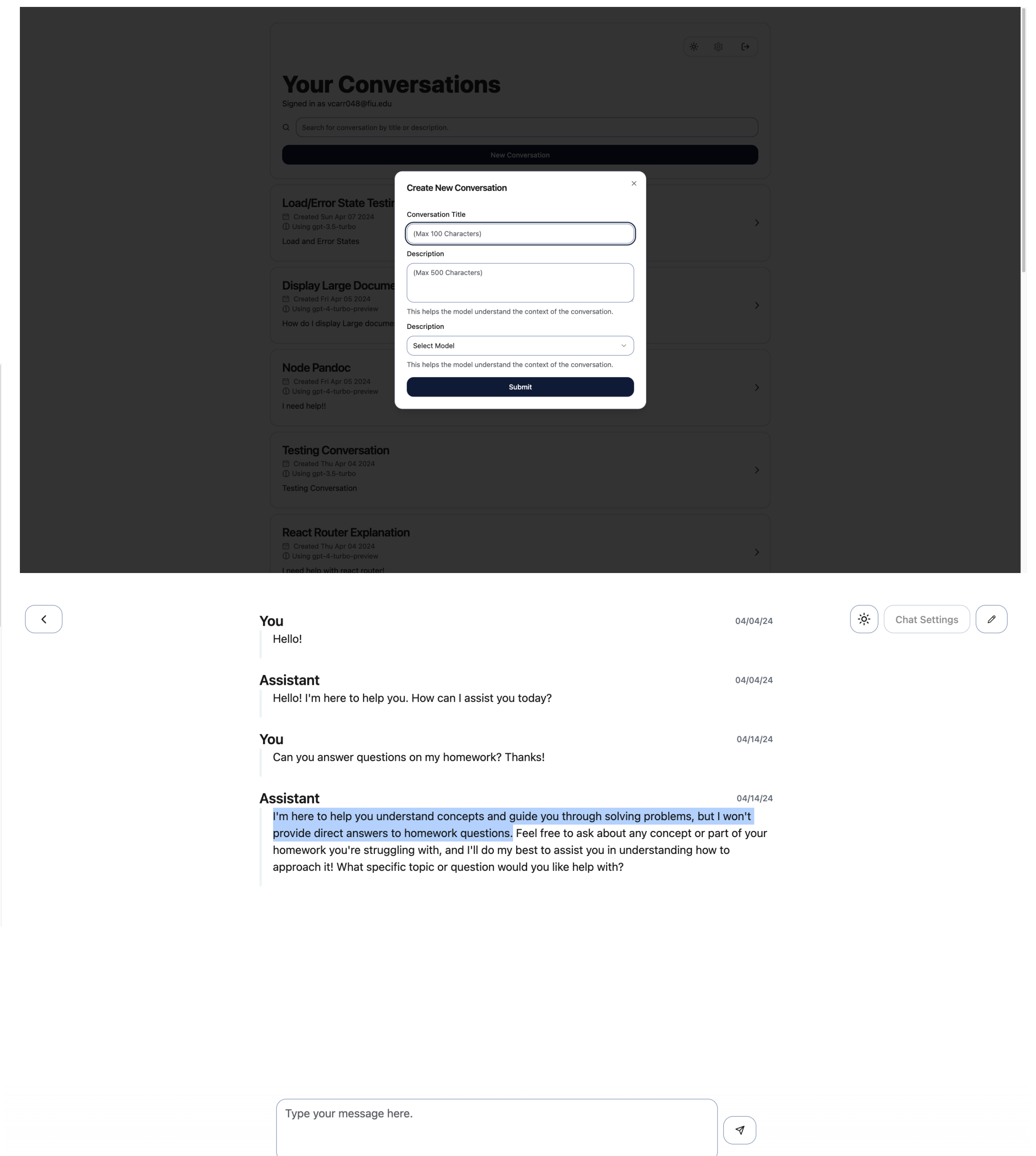
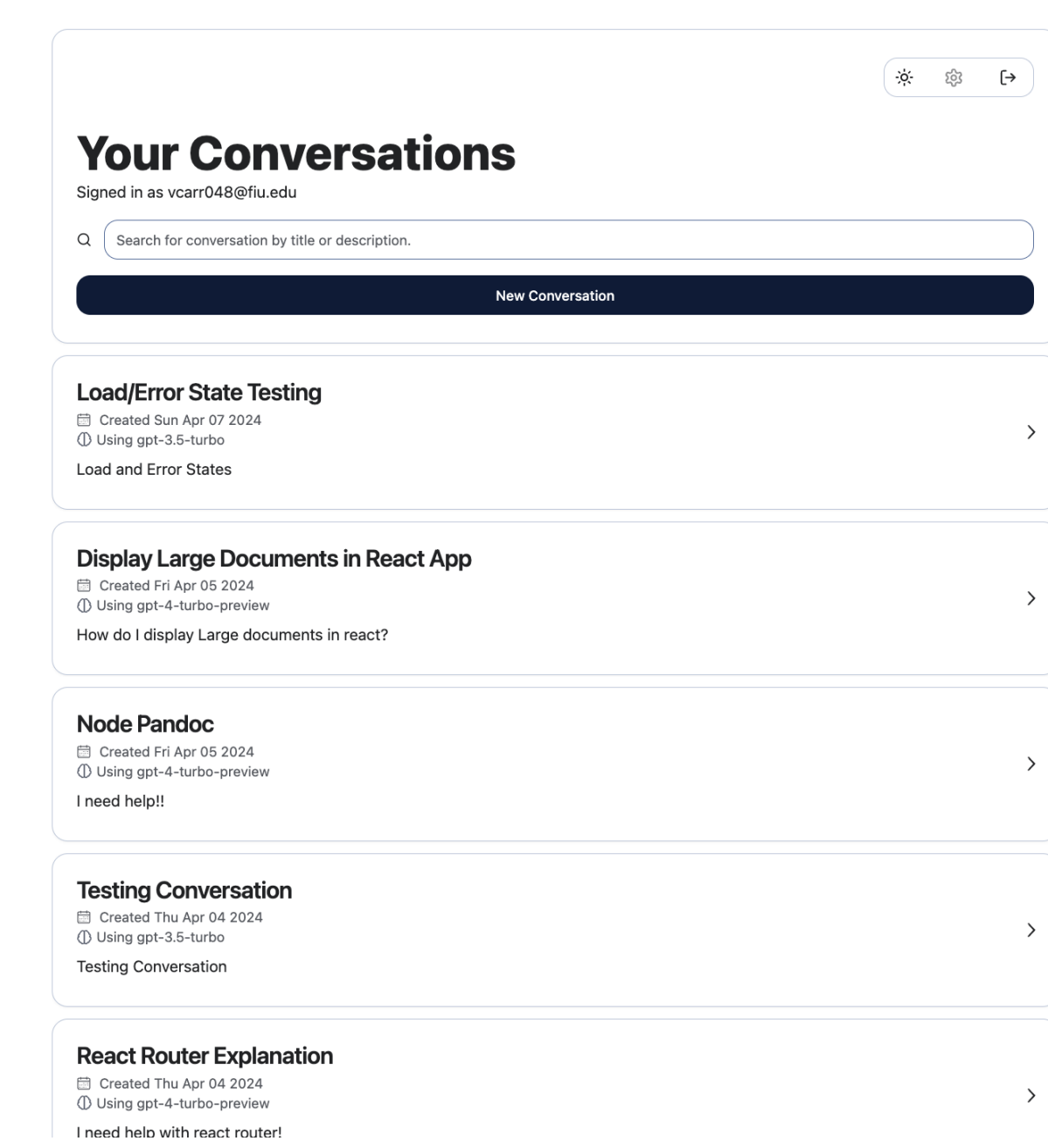


## Current System

There are no current systems in place that this replaces.

- Students have been using LLMs like ChatGPT and Gemini.
- Those LLMs mostly produces

## Screenshots



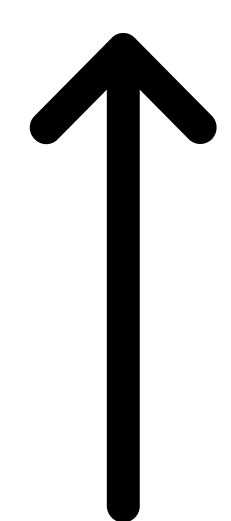
## Chat Verification

**Scenario:** When user asks the assistant to directly answer questions from an assignment.

**Expected Result:** The assistant does not directly answer it and rejects any attempts to do so.

**Actual Result:** The assistant does not answer the questions and instead offers to help the user along.

**Status:** Pass



## ACKNOWLEDGEMENT

The material presented in this poster is based upon the work supported by STARS Tutoring and Dr. Patricia McDermott-Wells. We/I thank Dr. Wells for his/her/their assistance and mentorship that I/we received throughout the senior design project.