

Basic Details of the Team and Problem Statement

Ministry/Organization Name/Student Innovation:

Ministry of AYUSH

PS Code: SIH1346

Problem Statement Title: Chatbot to Known Individual Prakriti (Phenotype)

Team Name: Hack-a-holics

Team Leader Name: I Irfan Ahmed

Institute Code (AISHE): _U-1153

Institute Name: Shiv Nadar University, Chennai

Idea/Approach Details

- The idea is to create an innovative Ayurvedic chatbot that connects individuals with personalized Ayurvedic solutions for their health and well-being.
- Offering medical consultations with an active Ayurvedic medical practitioner as an additional feature for validating the chatbot's responses.
- This chatbot will engage users in a conversation about their health, symptoms, and lifestyle.
- Based on the input given by the users, the chatbot will offer customized Ayurvedic remedies, dietary advice, and lifestyle recommendations.
- It will educate users about the core principles of Ayurveda, the significance of balance in doshas (Vata, Pitta, Kapha), and the holistic approach to health.
- Ayurveda aims to maintain and restore health with minimal side effects, prioritizing overall well-being. In contrast, allopathy, with its analytical approach, often focuses on symptom suppression

Technological Stack and Dependencies

Frontend Dependencies:

- Axios: JavaScript library for making HTTP requests.
- React: JavaScript library for building user interfaces.
- React-DOM: React library for working with the DOM.
- React-Media-Recorder: Library for recording media (audio and video) in React applications.
- TypeScript: Typed JavaScript superset.

Development Dependencies from "package.json":

- PostCSS: Tool for transforming styles with JavaScript plugins.
- Tailwind CSS: Utility-first CSS framework for styling.
- Vite: Build tool for bundling and serving frontend code.

Backend Dependencies

Python :

- 1.FastAPI:** This is the main framework for building your API.
- 2.uvicorn:** A lightweight ASGI server that you can use to run your FastAPI application.
- 3.openai:** The OpenAI Python library for making requests to the OpenAI API.
- 4.python-decouple:** A library for handling environment variables and configuration, often used for managing sensitive data like API keys.
- 5.requests:** A popular Python library for making HTTP requests.

Idea/Approach Details

Describe your Use Cases here

➤ **Personalized Health Assessment:**

The chatbot assesses individual health by collecting user information on symptoms, lifestyle, and well-being, determining the user's dosha constitution, and identifying any imbalances.

➤ **Customized Remedies:**

The chatbot provides personalized Ayurvedic solutions for specific health concerns and dosha imbalances, encompassing remedies such as herbal treatments, dietary adjustments, yoga, meditation, and lifestyle changes.

➤ **Lifestyle Guidelines:** Like Dietary Recommendations and recommendations for Skin and Hair Care

➤ **Herbal Medicine Information/Ayurvedic Education**

➤ **Comparison of Allopathy with Ayurveda**

Show Stoppers

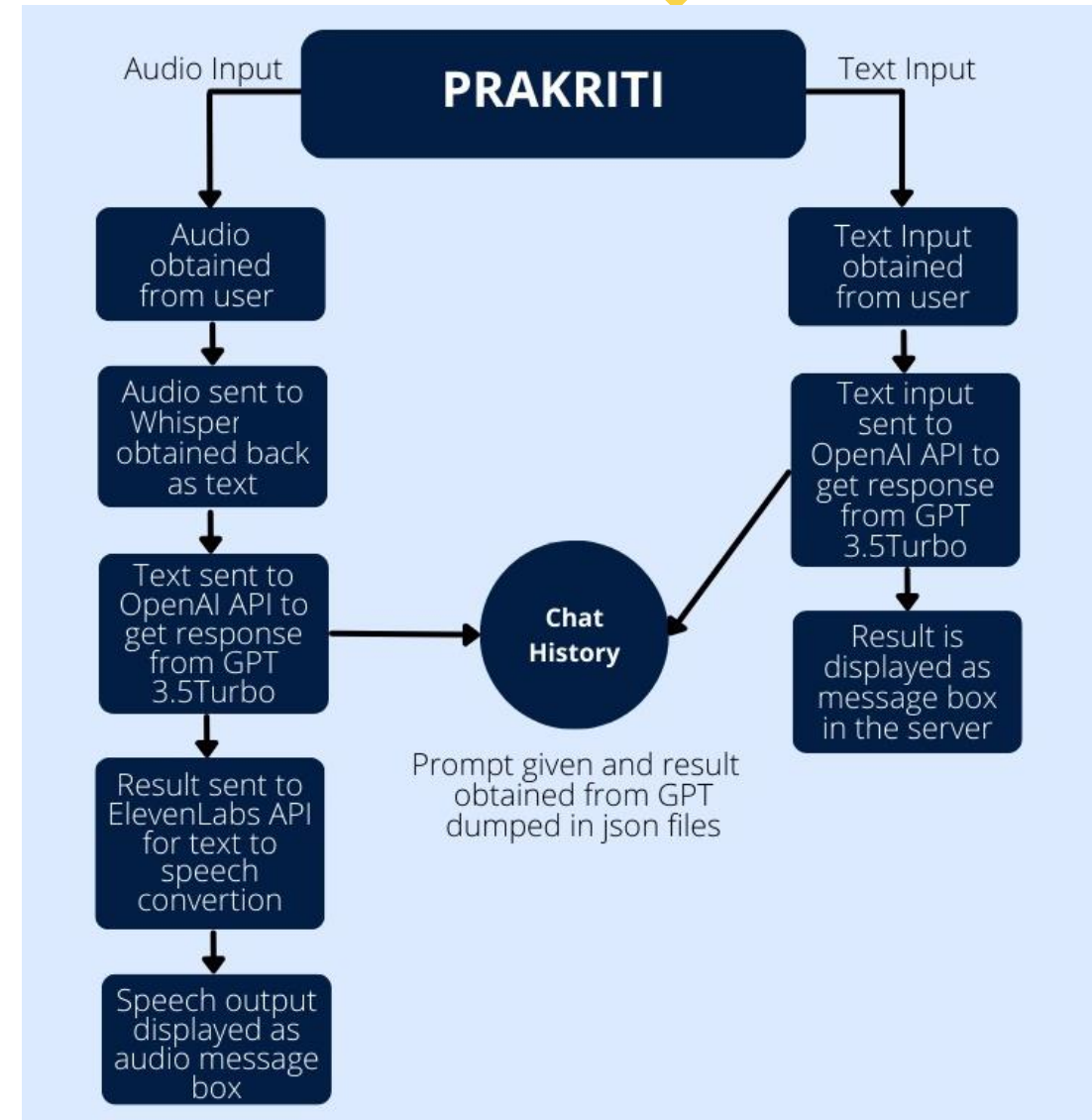
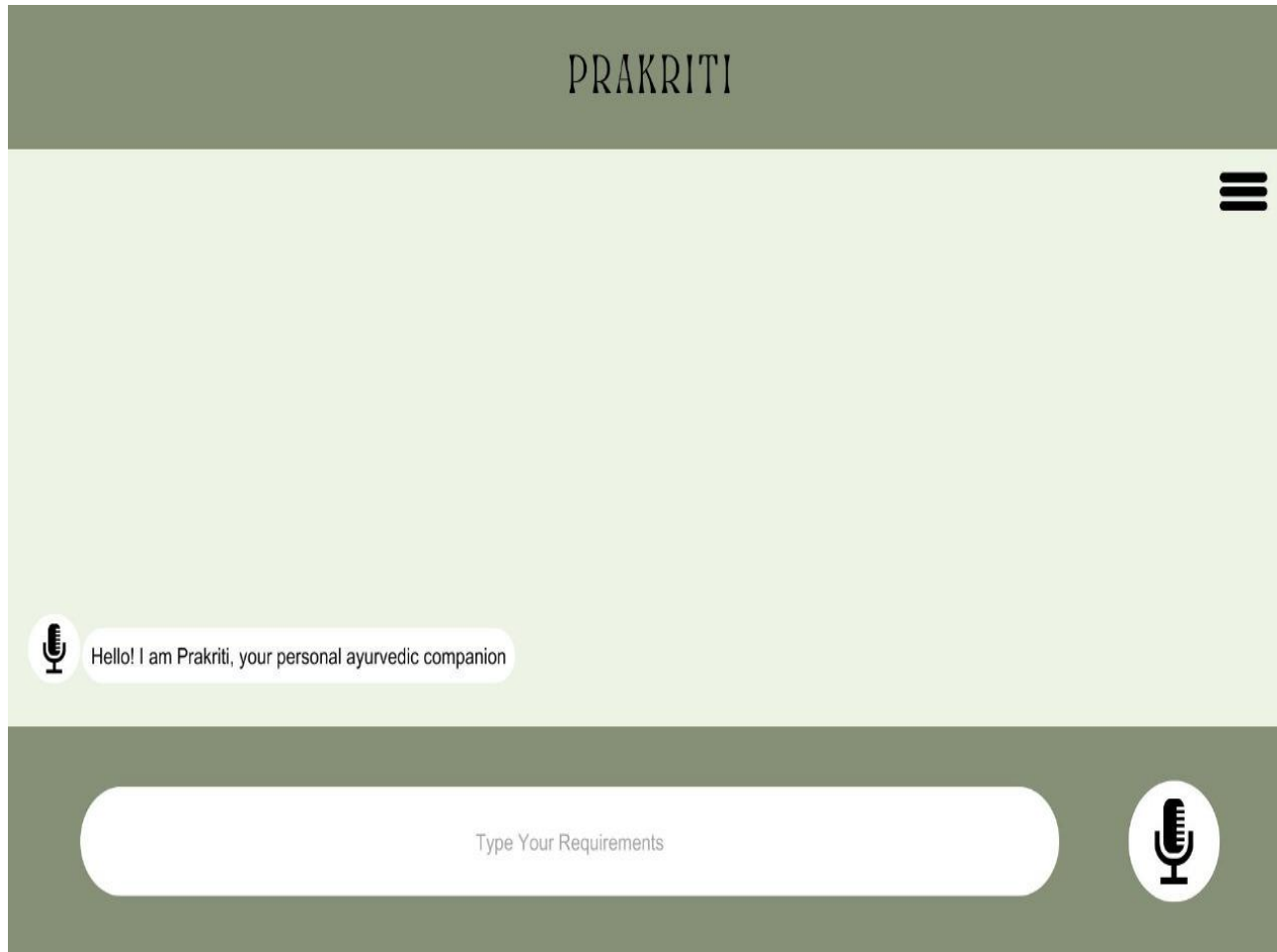
➤ No Proper existing dataset which is available to the Public regarding Ayurvedic Remedies and diet plans.

Hence there is a dependency on OpenAI

➤ Feeding the bot with data that contains ayurvedic medicine as a replacement for allopathic medicine is a challenge.

➤ Integration of the voice input as well as message input is a challenge.

Project User-Interface and Flowchart of Basic Functionality



Team Member Details

Team Leader Name:

I Irfan Ahmed (Btech)

Stream(CSE)

Year II

Team Member 1 Name:

Kayalvizhi S (Btech)

Stream (CSE)

Year II

Team Member 2 Name:

N V S Keerthana Lingamallu (Btech)

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Year II

Team Member 3 Name:

R Hridya Shree (Btech)

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Team Member 4 Name:

S Sankaranarayanan (Btech)

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Year I

Team Member 5 Name:

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Year III