



HERE FOR YOU

Feeling Stressed?
We Are **HERE FOR YOU**

-By alphabeta



PROBLEM STATEMENT:

- Mental Health issues are not just limited to depression. Any kind of behavioral and neurodevelopmental disorder comes under it such as:
 - Insomnia
 - PTSD
 - Phobia
- Many people avoid discussing mental health due to stigma, fear, or limited access to professionals.
- This leads to delayed care resulting into increased severity in symptoms.





Proposed Solution:

Our solution is designed to bridge the gap between individuals hesitant to discuss their mental health and professional mental health services, using advanced AI and a seamless management system. It consists of two main components:

AI-Powered RAG-Based Chatbot

- We utilize a (RAG) based chatbot powered by the Gemini 001 Flash model.
- The chatbot is specialized using a database built upon ICD-11 manuals, focusing on behavioral and neurodevelopmental disorders.
- Key features:
 - Engages users in a gentle, non-judgmental, and empathetic conversation.
 - Asks common mental health-related questions to assess the user's emotional and psychological state.
 - Analyzes responses to provide preliminary mental health insights.
 - Recommends mental health specialists based on symptom severity and disorder classification.

Integrated Management System for Users and Doctors

For Users:

- A user-friendly app interface that allows individuals to:
- View and book appointments with specialists online based on chatbot recommendations.
- Register and manage profiles securely and easily.

For admin (Admin panel):

- View the status.
- Add and manage doctors
- Manage all appointments

For Doctors (Doctor Panel):

- Manage their appointments
- Update their profile





Innovations & Uniqueness:

Privacy-First Design : Conversation data is not stored; all user inputs are auto-deleted 30 minutes after the session ends.

Anonymity Guaranteed: Zero server-side logging ensures a safe, judgment-free space for users.

ICD-11 Trained Specialist Bot: Chatbot is fine-tuned on ICD-11 guidelines for behavioral and neurodevelopmental disorders.

Clinically Relevant Conversations: Asks only appropriate, standardized questions related to mental health.

Empathetic Interaction: Gently guides users with supportive, human-like dialogue.

Recommendation : Recommends seeking professional based on the severity of condition.



Tech Stack

Frontend:

- Javascript
- Vite
- TailwindCSS



Backend:

(Doctors Management)

- Javascript
- NodeJS
- ExpressJS

(Chatbot)

- Python
- Langchain
- Google Gemini-001-flash model



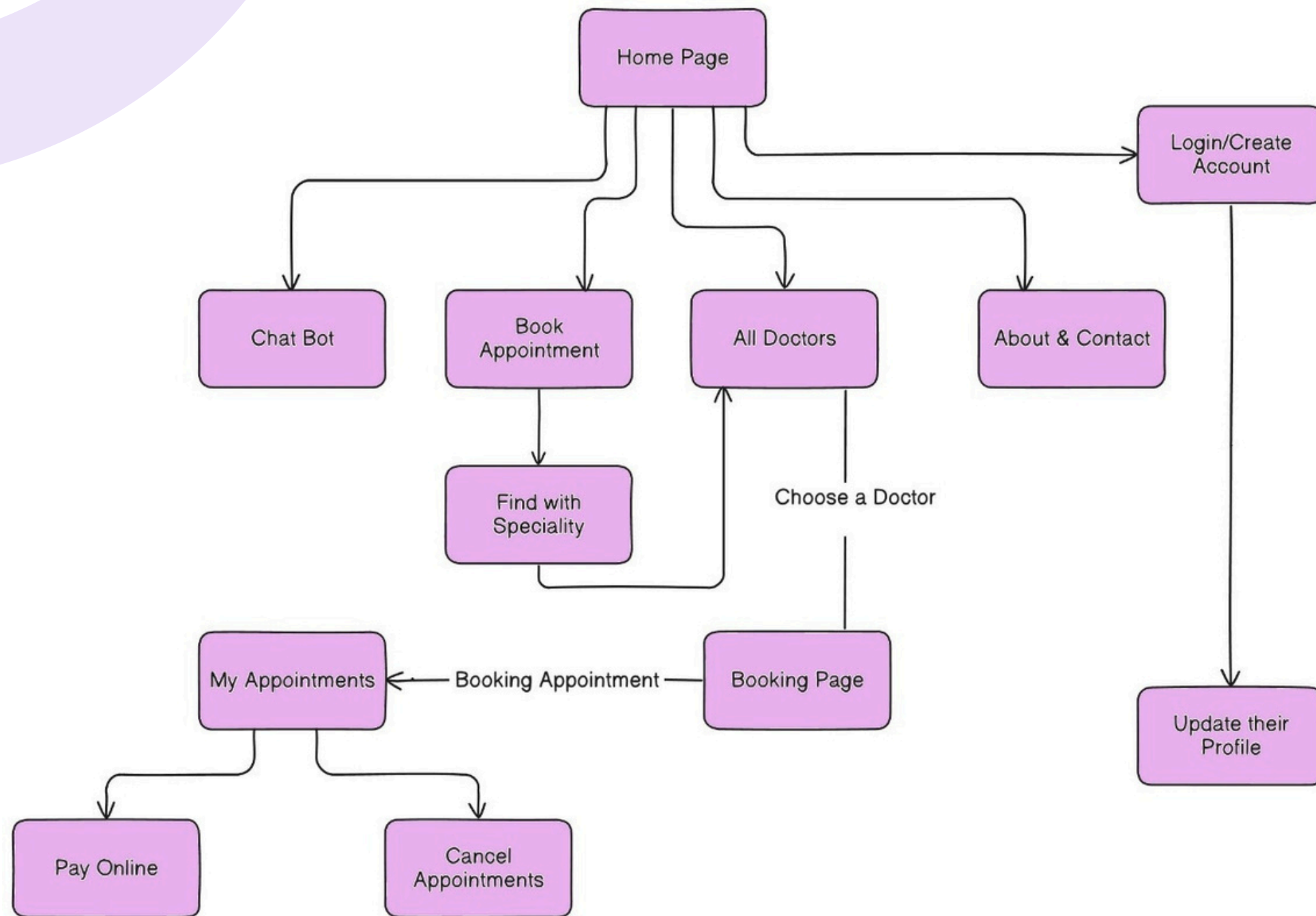
Database:

- MongoDB: for User Data, Doctors Data, Appointments, etc
- AstraDB: for vector storage of Reference Data for RAG Based Chatbot.

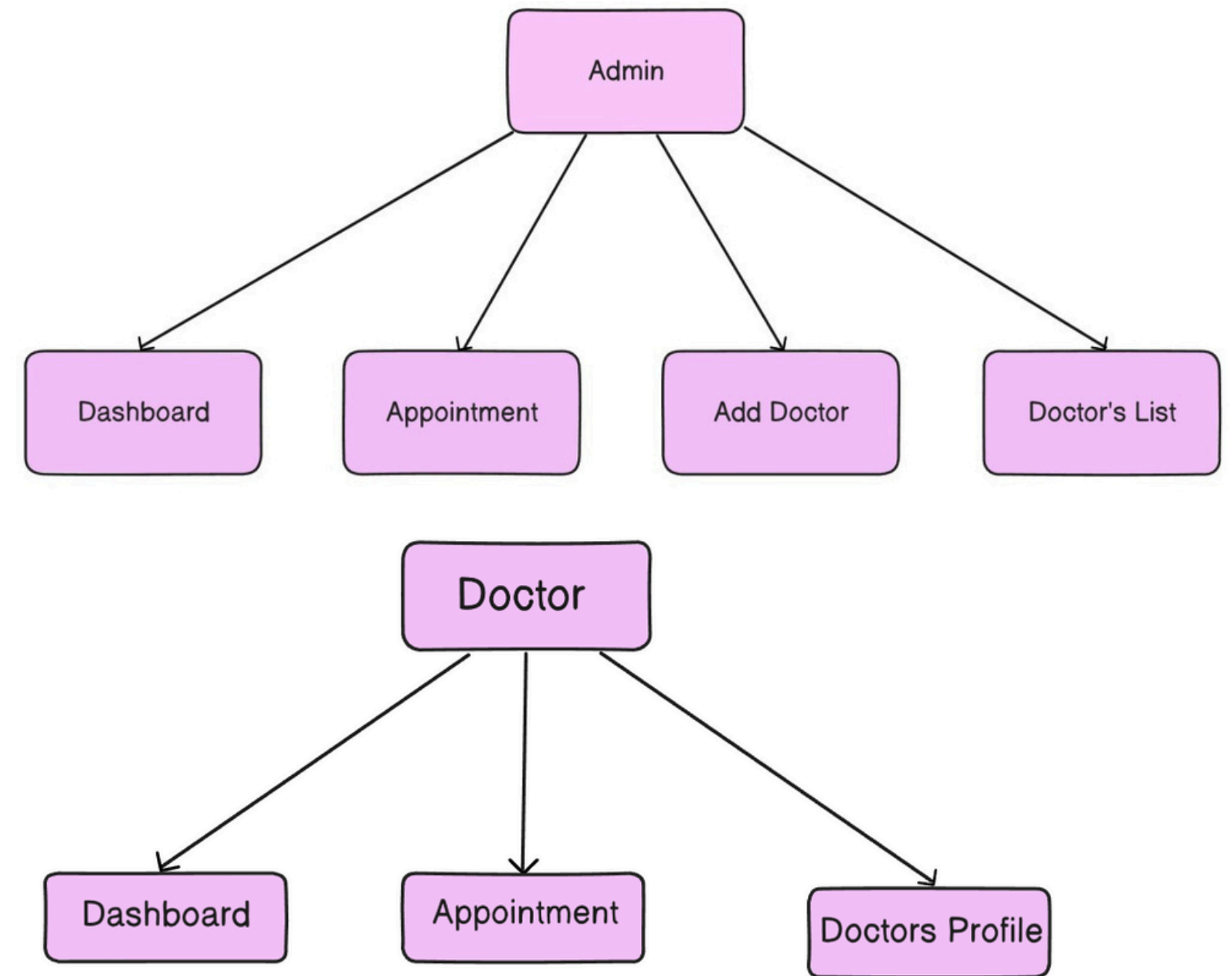


Architecture and Workflow

User Workflow



Admin & Doctor Workflow



Execution Plan

Phase 1: Research & Planning

- Understood the need for solution
- Discussed with Dr. Rajkumar Eslavath (Mental Health Specialist @IITBHILAI)

Phase 2: Design

- Create UI/UX for chatbot, User app and Admin Panel
- Plan secure, privacy-focused architecture

Phase 3: Development

- Build RAG-based chatbot (Gemini 001 Flash + ICD-11)
- Implement user registration, chat, and specialist recommendation
- Develop admin panel for appointments and availability

Phase 4: Testing

- Test chatbot accuracy, UI flows, and data deletion logic

Phase 5: Launch

- Deploy app, onboard doctors (Dummy data), and open to users





Scalability and Real World Impact

- Using Robust Architecture
- MongoDB for Data storage
 - User Info
 - Doctors info
 - Appointments Info
- Easy to read modular code base
- Treating two main components of backend as separate microservices
- Almost 6 in 10 people with mental illness get no treatment or medication.
- In 2024, an estimated 57.8 million adults (19% of the country) had a mental illness, but only 43% received any kind of mental health care.
- In 2022, the U.S. hit a record with 49,000 people passing away as a result of suicide. - [Reports](#)
- Our aim is to bring these numbers down around the world.

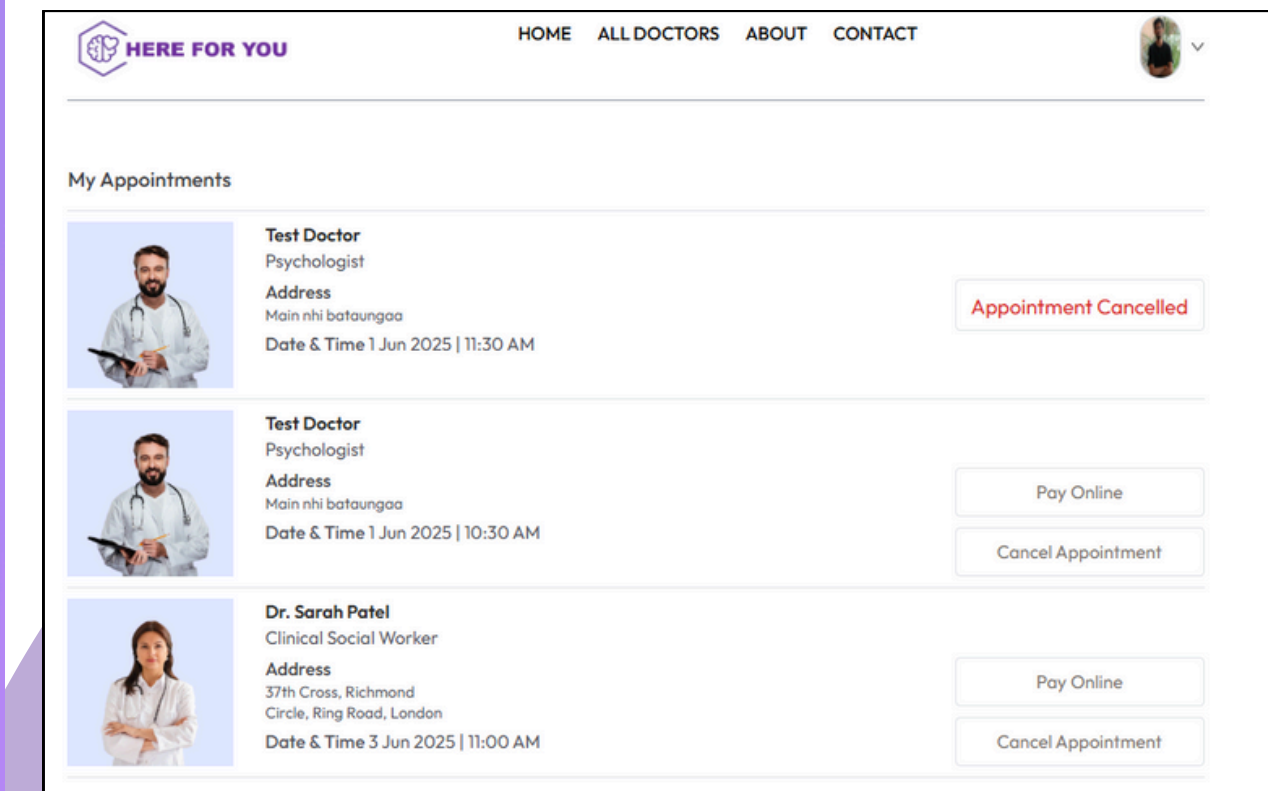
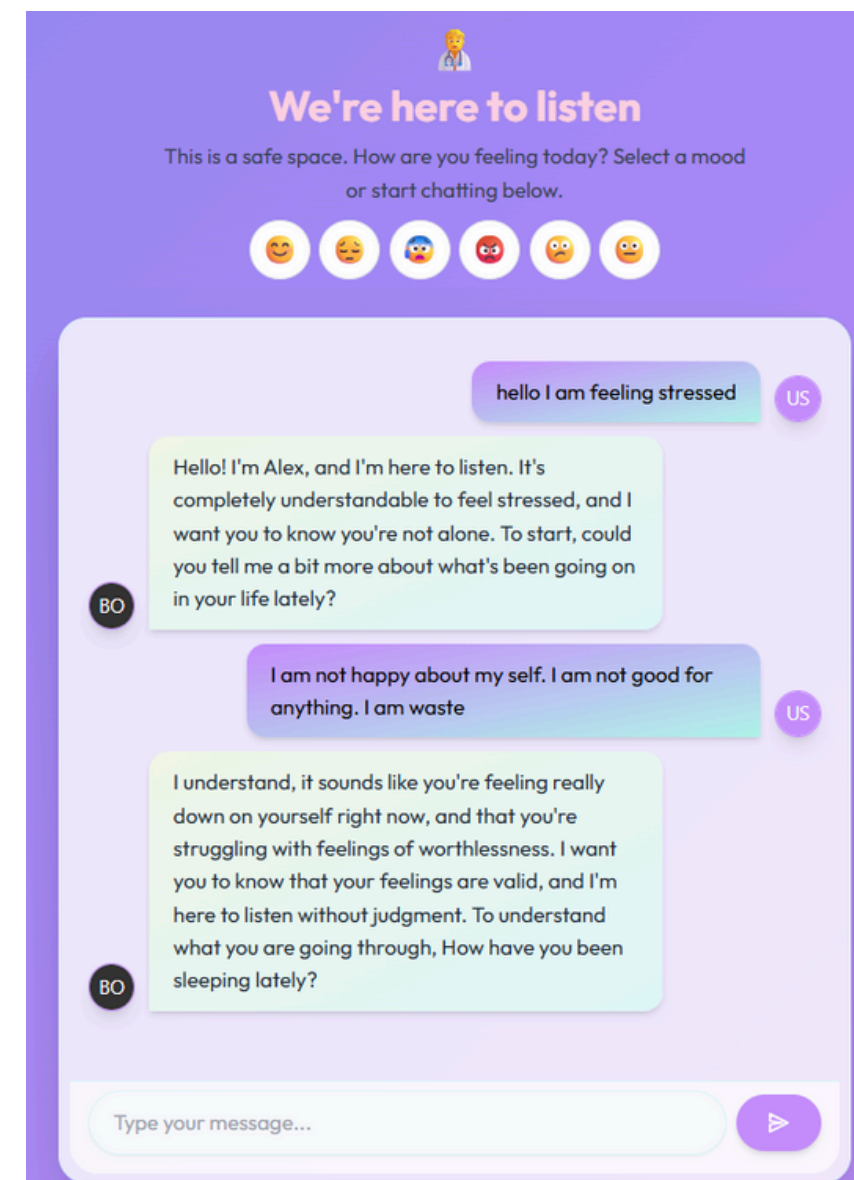
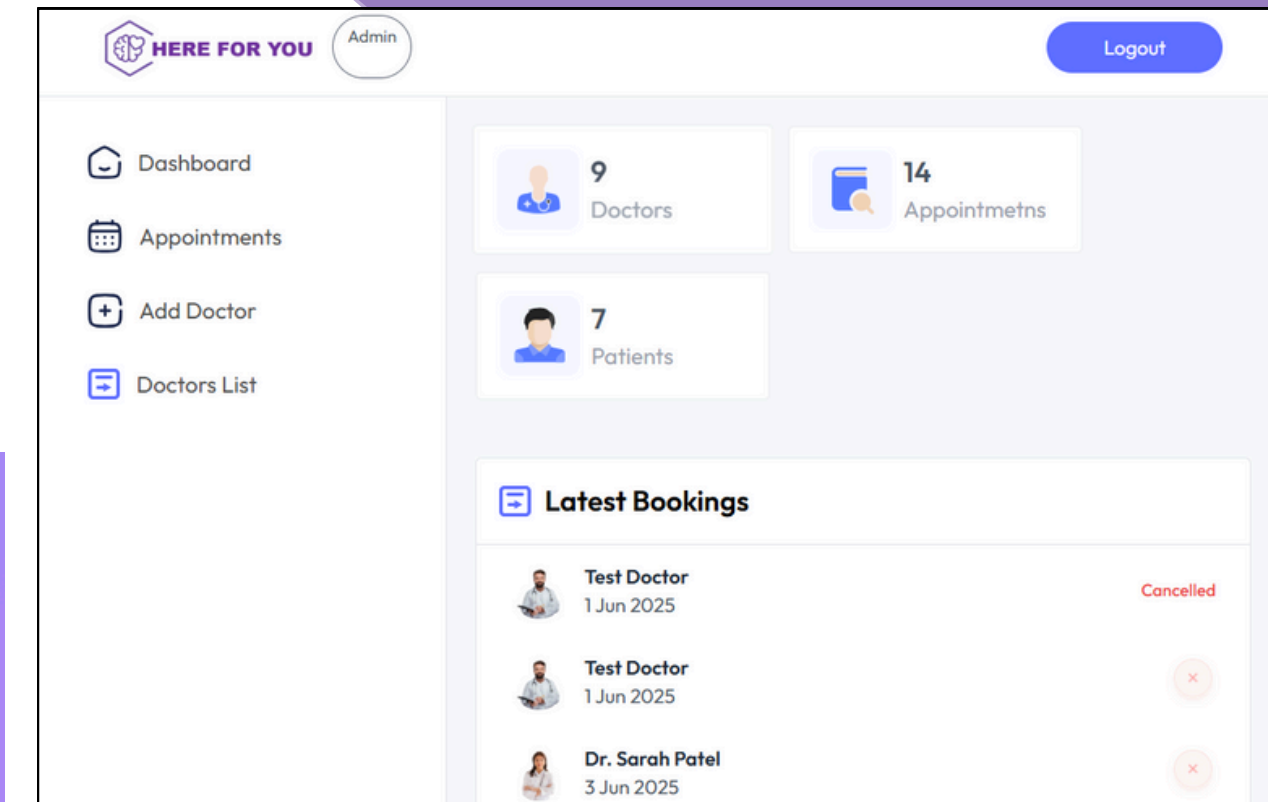
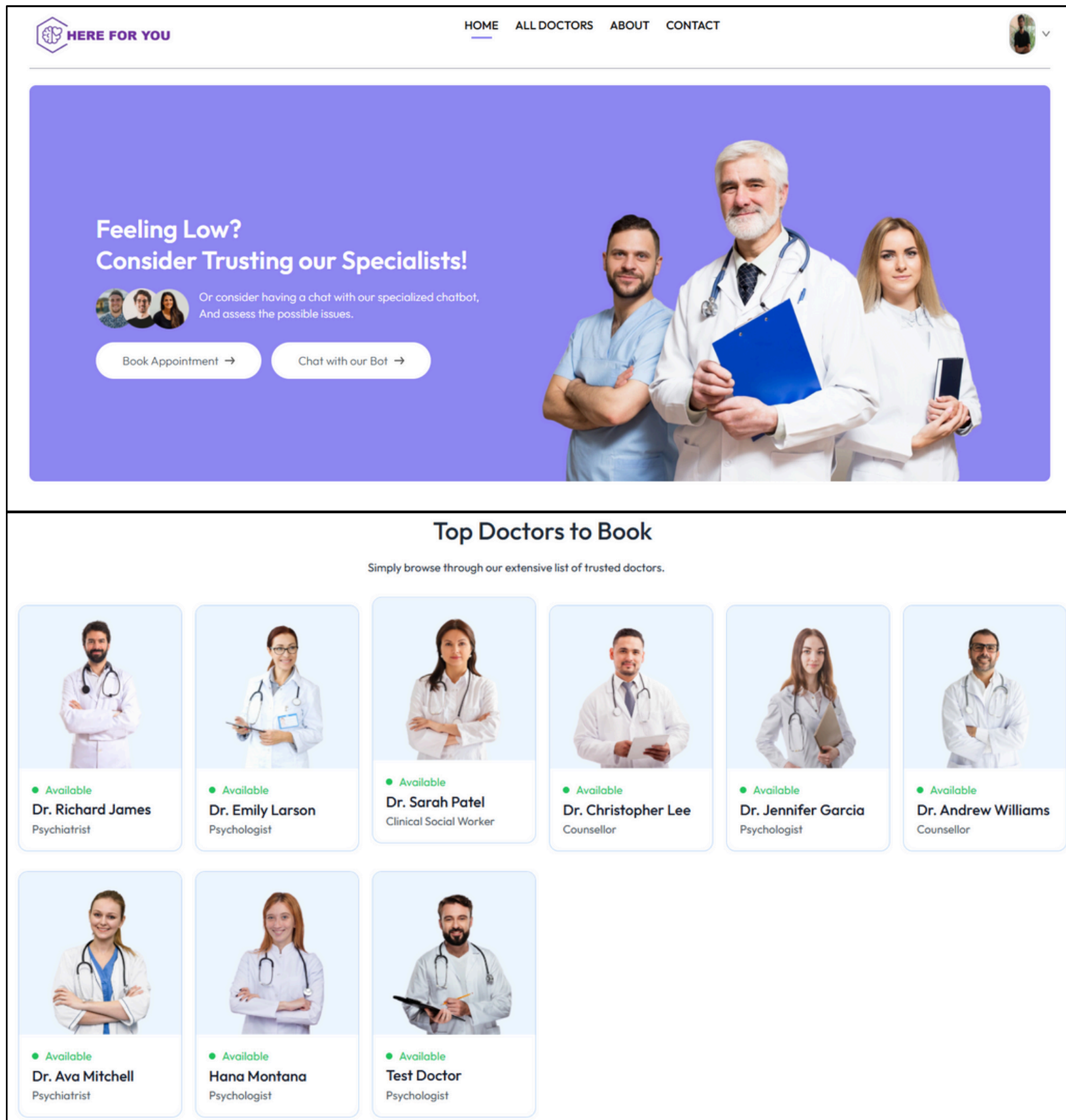


Anticipated Challenges

- Model to have relevant domain knowledge
 - Achieved this by implementing a RAG based model specialized on ICD-11 Manual
- Model being empathetic and provide solution, but does not diagnose the patient
 - Achieved using Retrieval Augmented Prompting
- Model to be able to assess the mental health severity and recommendation of specialist
 - Achieved using features of Langhian.

Progress

- Developed and Deployed.
- Doctor panel is needed to be completed.





Github and Deployed Links

Github Repo Link : Here For You

Frontend : Here For You

Admin : Here For You Admin

Admin login Credentials:

- email : admin@hfy.com
- password : qwerty123

Demo Video : Drive Link

Deployed on



Thank You