TEAM DETAILS AND PROBLEM STATEMENT



Name: Vijay Srinivas K

Institute Name: SSN College of Engineering

Theme: Healthcare

Problem statement: To develop a user friendly mental health app that offers accessible and personalized support for individuals experiencing various mental health issues, while combating stigma and providing cost effective solutions.

IDEA/PROTOTYPE - FEATURES

- Voice recognition enabled chatbot exclusive to Mental Health (AI based Customized remedy suggester and empathetic chat – companion)
- Mood Tracker
- GPS supported Expert Appointment scheduler
- Personal Medical Dashboard User records post diagnosis by mental health experts.

TARGET AUDIENCE

- School and college students
- People working in high-stress environments
- Those with PTSD
- People wading through difficult life situations.



ABSTRACT

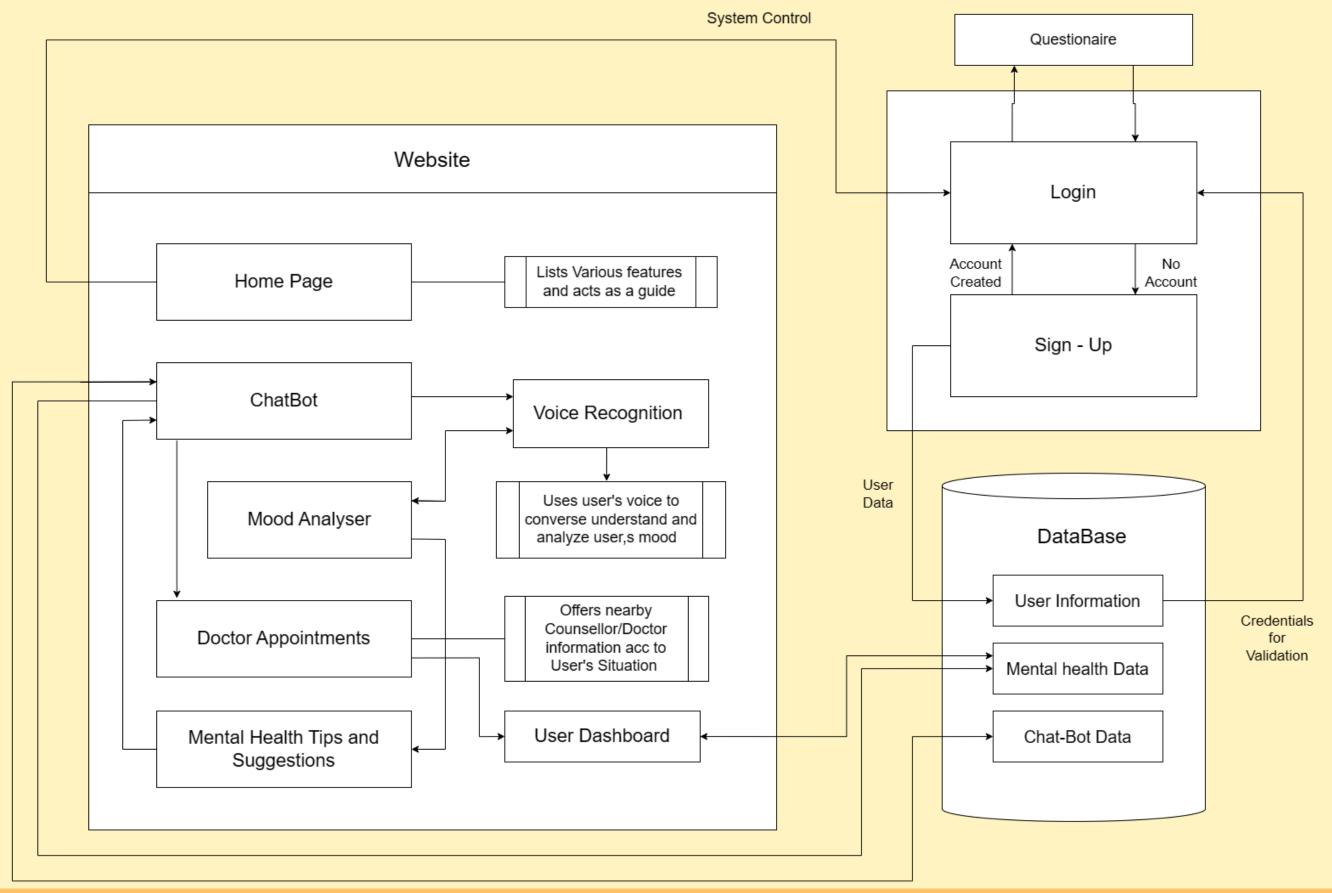
- INTRODUCTORY QUESTIONNAIRE: WHEN USER FIRST ENTERS THE APP, THEY ARE PROMPTED TO COMPLETE A SHORT QUIZ, WHICH HELPS THE APP GATHER INFORMATION ABOUT THE USER'S MENTAL HEALTH AND WELL BEING.
- THE WEB-APP INCLUDES A UNIQUE FEATURE THAT ALLOWS USERS TO TRACK
 THEIR MOOD USING SPEECH TO TEXT TECHNOLOGY. THEY CAN EXPRESS
 THEIR FEELINGS AND THE APP RECOGNISES THEIR STRESS LEVELS OR DISTRESS
 AND GIVES SUGGESTS INSTANT RELIEF MECHANISMS EG: GUIDED
 MEDITATION, BREATHING EXERCISES, ETC. IT IS A CHATBOT WHICH IS
 COMPATIBLE WITH VARIOUS NATIVE LANGUAGES.
- THE APP MAINTAINS A LOG OF USER'S MOOD OVER TIME BY CHECKING REGULARLY AND TRACKS THE CHANGES IN THEIR MENTAL STATE, IN CASE OF UNUSUAL OR SEVERE CONCERNS, IT CAN PROVIDE SUGGESTIONS TO SEEK EXPERT GUIDENCE

ABSTRACT-CONTD...

- USERS CAN **SCHEDULE APPOINTMENTS** WITH MENTAL HEALTH EXPERTS THROUGH THE APP, IT SUGGEST NEARBY EXPERT'S LOCATION FOR OFFLINE SESSIONS AND VIRTUAL APPOINTMENTS TOO.
- THE APP OFFERS A **COMPREHENSIVE MEDICAL DASHBOARD** THAT PROVIDES USERS INFORMATION RELATED TO THEIR DIAGNOSIS, USERS CAN ACCESS INFO REGARDING THEIR CONDITIONS, TREATMENT OPINIONS AND IS A SELF HELP RESOURCE.
- THE APP RECOGNISES USER'S MOOD DATA AND OFFERS A CURATED PLAYLIST OF MUSIC THAT ARE KNOWN TO HAVE A POSITIVE IMPACT ON THE MENTAL WELL BEING BY INTEGRATING IT WITH MUSIC STREAMING SERVICES.



ARCHITECTURE DIAGRAM



TECHNOLOGY STACK



HTML CSS

Design - Figma

JavaScript, Flask

Backend - Python

Google Cloud

DB - MongoDB

FUTURE SCOPE



• **GSR sensor** can be integrated with a mood tracking feature to accurately sense their mental state and psychological responses.it can detect increased stress level, allowing the app to suggest instantaneous relief mechanisms.

• VR therapy can create an immersive and controlled environment that helps users manage their anxiety,phobias or PTSD and simulate a relaxing atmosphere.

LIMITATIONS



- While the app can provide support and guidance, it should not be considered a substitute for professional treatment.
- Mood assessment through chatbot is not 100% accurate. If users try to express feelings in a contrasting tone compared to the actual tone, the automated mood analysis fails to predict it.
- Maintaining consistent user engagement on a long term can be challenging