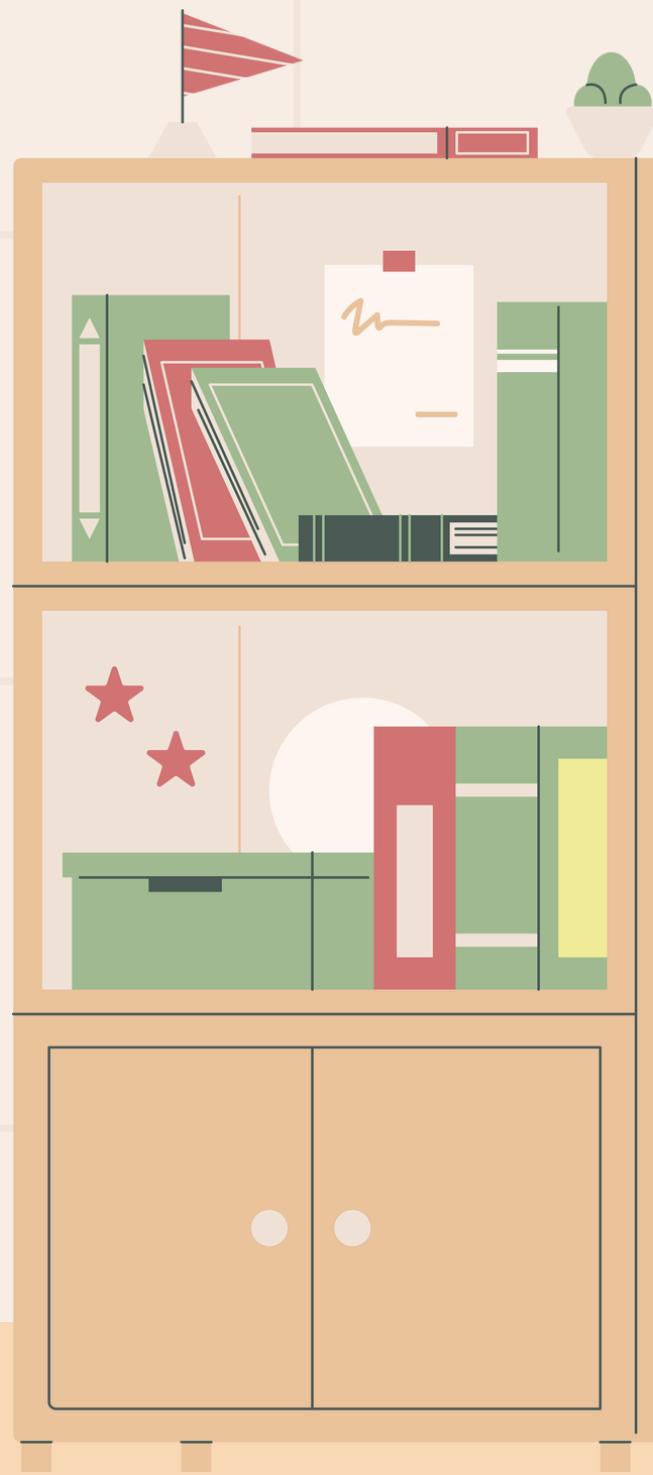


IMAGINE CUP

Presentation by SASTRA INNOVATORS



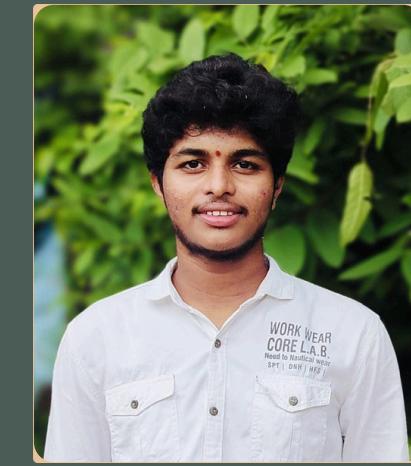
LIST OF GROUP MEMBER



Harshitha
UI DESIGN AND
RESPONSIBLE AI



Kranthidhar
AZURE AI INTEGRATION
AND ARCHITECTURE



Harsha
APP FEATURES AND
DEMO

LIST OF CONTENTS

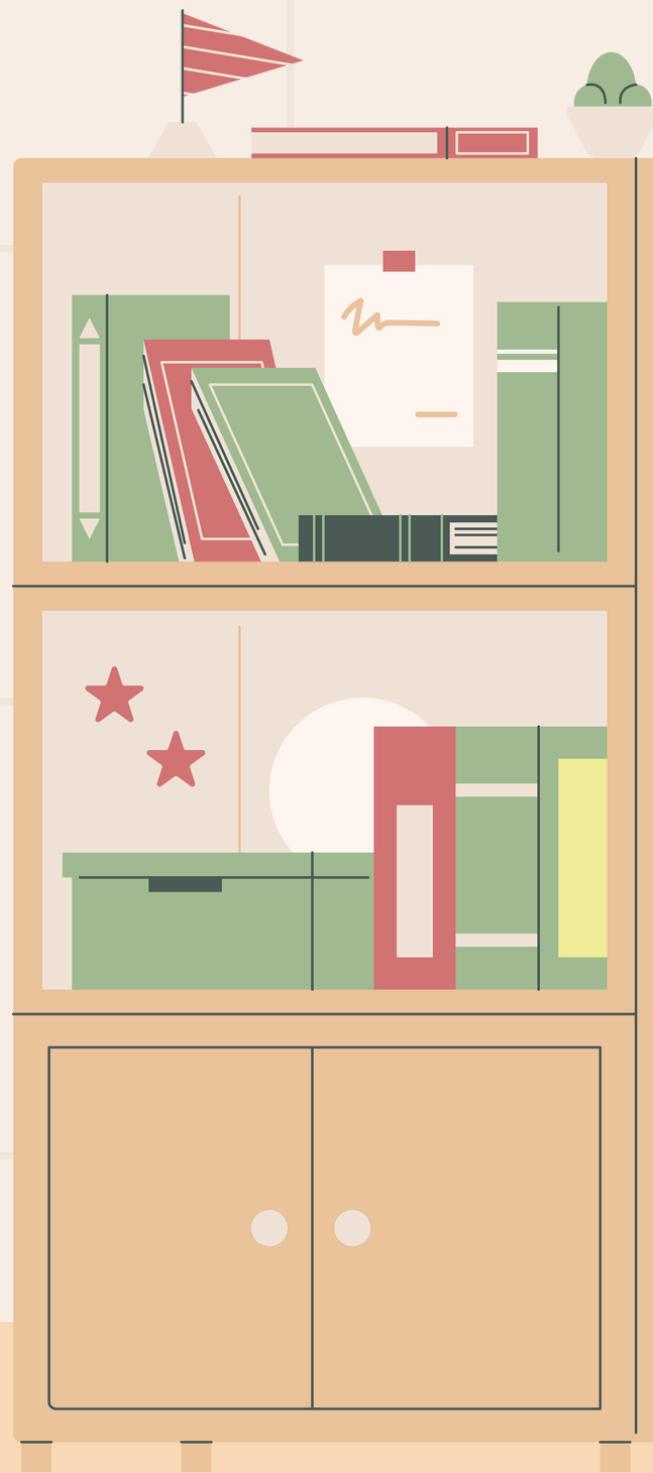
-  Project Overview
-  Azure AI Architecture
-  Problem Statement
-  Technologies Used
-  Proposed Solution
-  Responsible AI Approach
-  Key Features
-  Impact And Benefits
-  App Screens & Demo
-  Conclusion



PROJECT OVERVIEW

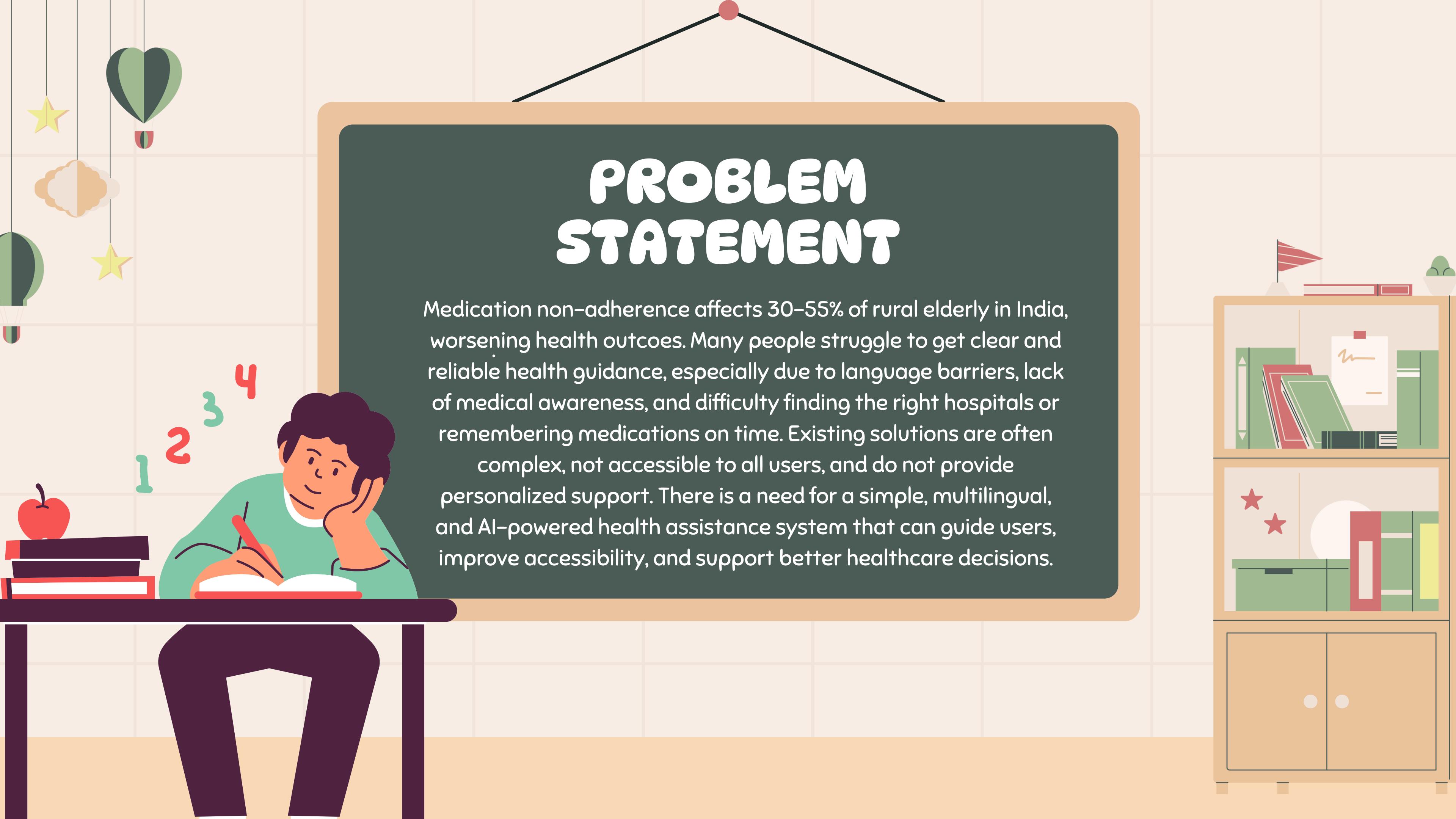
AI-based health assistance app

- Supports voice and text in multiple languages
- Helps users find hospitals and medical support
- Provides medicine reminders and health guidance
 - Built using Microsoft Azure AI services
- Focused on accessibility and responsible AI use



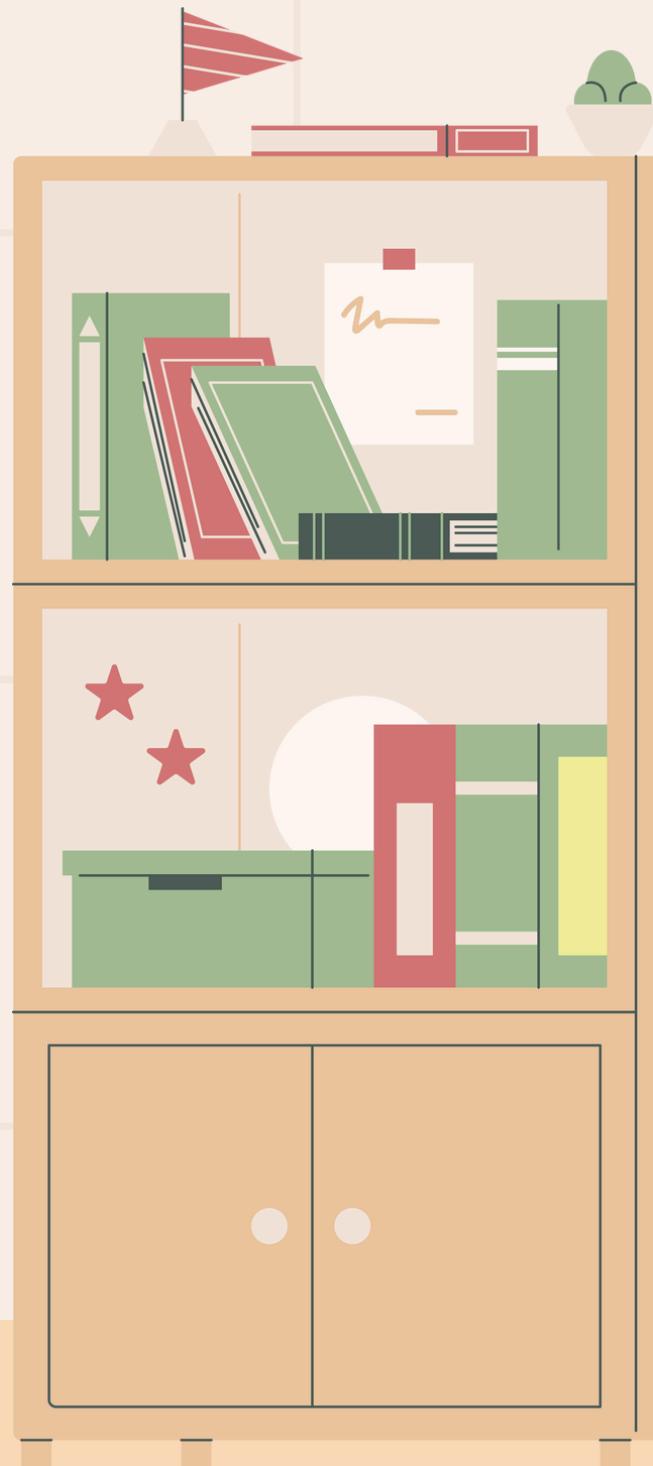
PROBLEM STATEMENT

Medication non-adherence affects 30–55% of rural elderly in India, worsening health outcomes. Many people struggle to get clear and reliable health guidance, especially due to language barriers, lack of medical awareness, and difficulty finding the right hospitals or remembering medications on time. Existing solutions are often complex, not accessible to all users, and do not provide personalized support. There is a need for a simple, multilingual, and AI-powered health assistance system that can guide users, improve accessibility, and support better healthcare decisions.



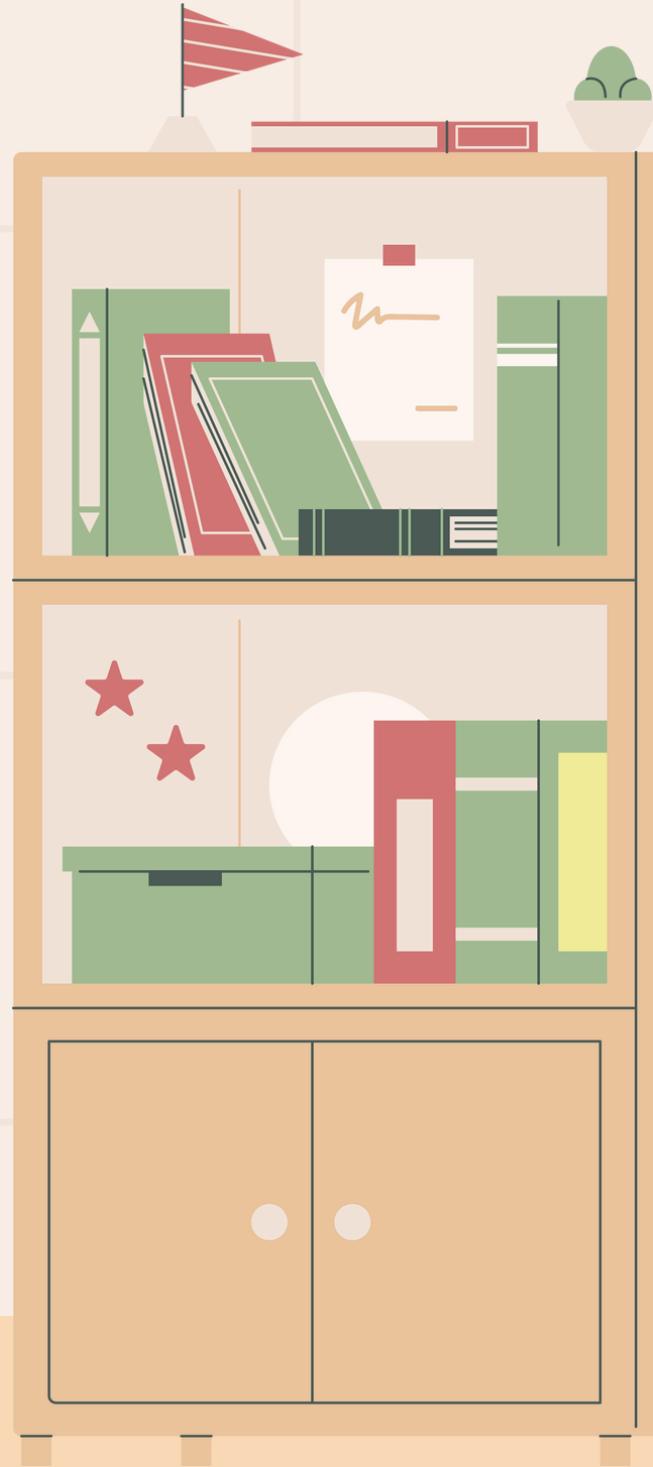
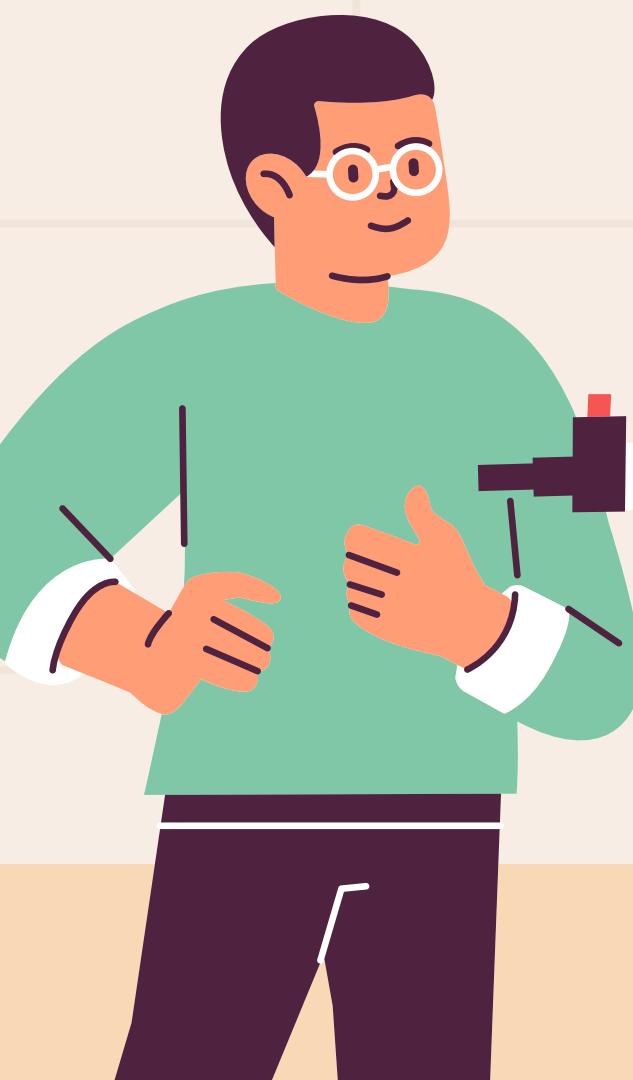
PROPOSED SOLUTION

Our solution is an AI-powered health assistance application designed to provide easy and accessible healthcare support for everyone. The app allows users to interact through voice or text in multiple languages to describe their health concerns. Based on the input, the system helps users find suitable hospitals, provides basic health guidance, reminds them to take medications on time, and shares information about relevant government medical schemes. The solution focuses on simplicity, accessibility, and real-world usability.

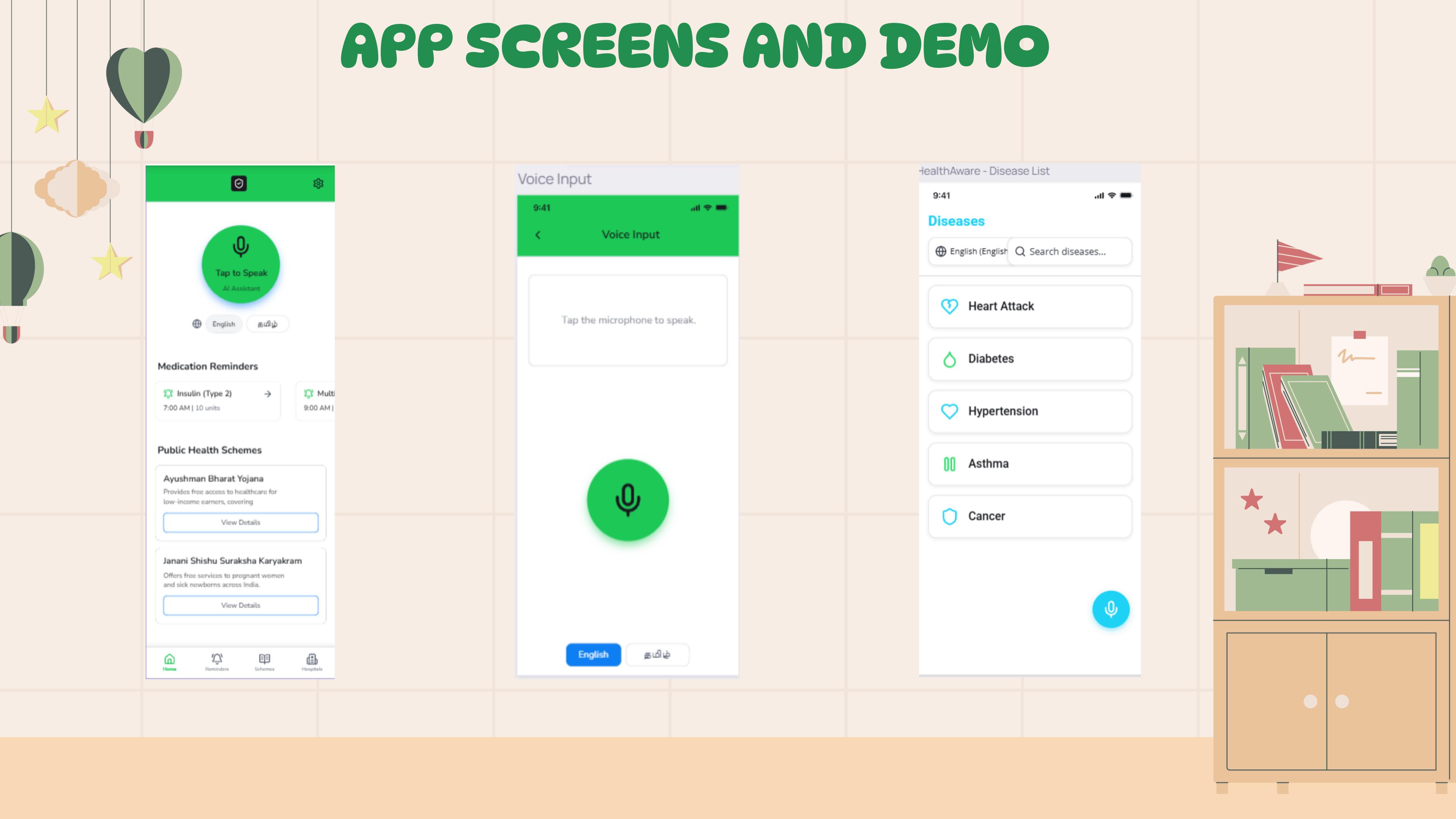


KEY FEATURES

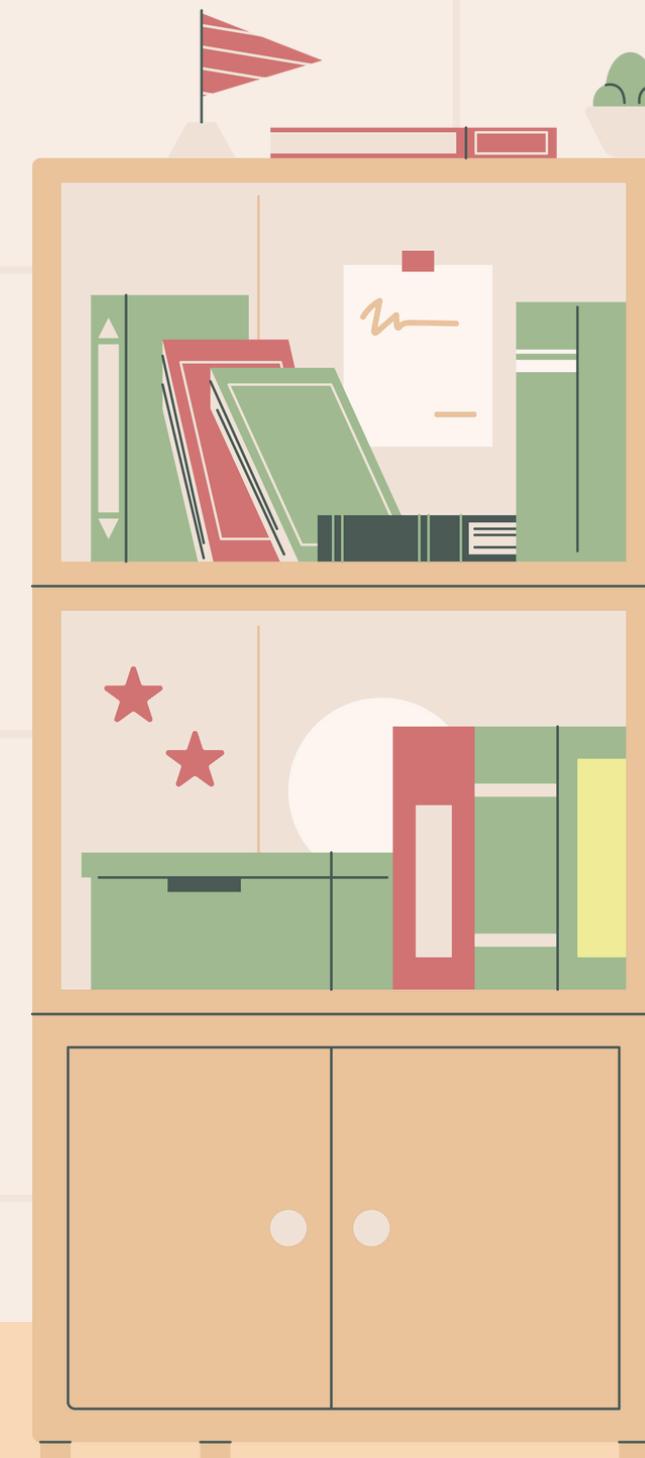
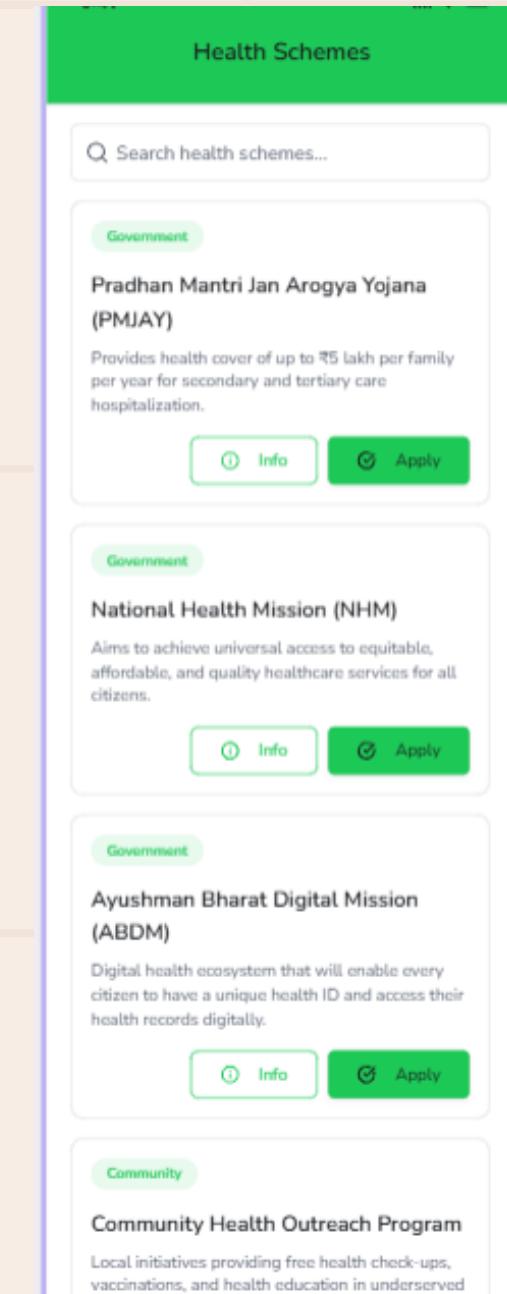
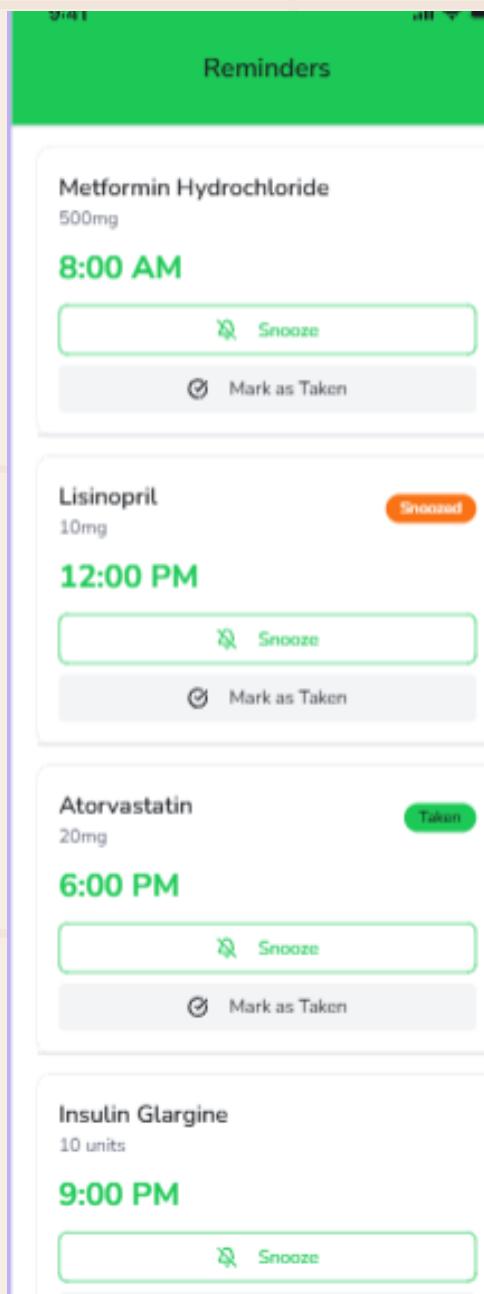
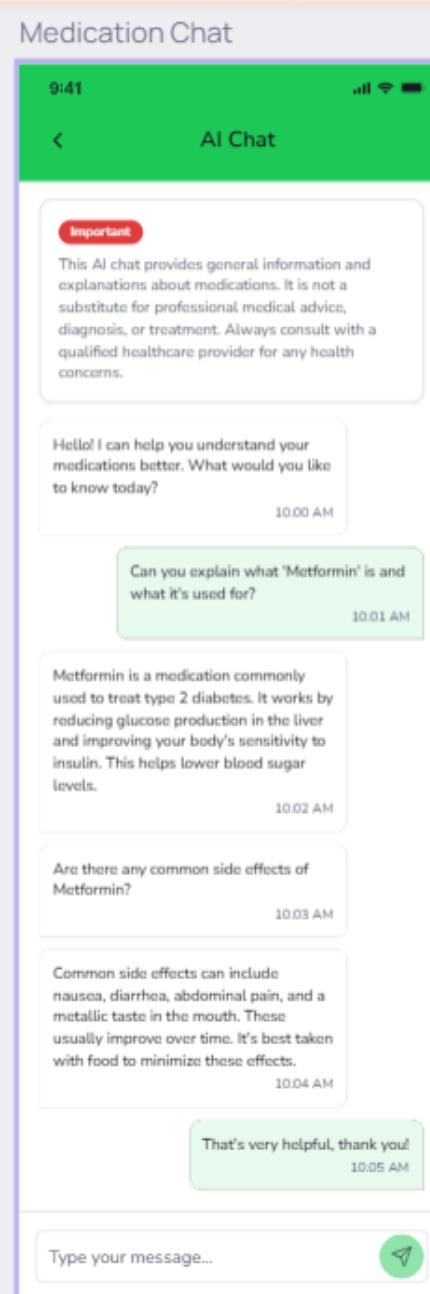
- # Voice and text-based health assistant with multi-language support.
- # Easy input of health problems by speaking, typing, or selecting.
- # Suggests nearby hospitals with ratings, reviews, and contact details.
- # Provides food and lifestyle suggestions for specific health conditions.
- # Medicine reminder system with voice or alert notifications.
- # Information about government healthcare schemes and eligibility.
- # Simple and user-friendly interface for all age groups.



APP SCREENS AND DEMO

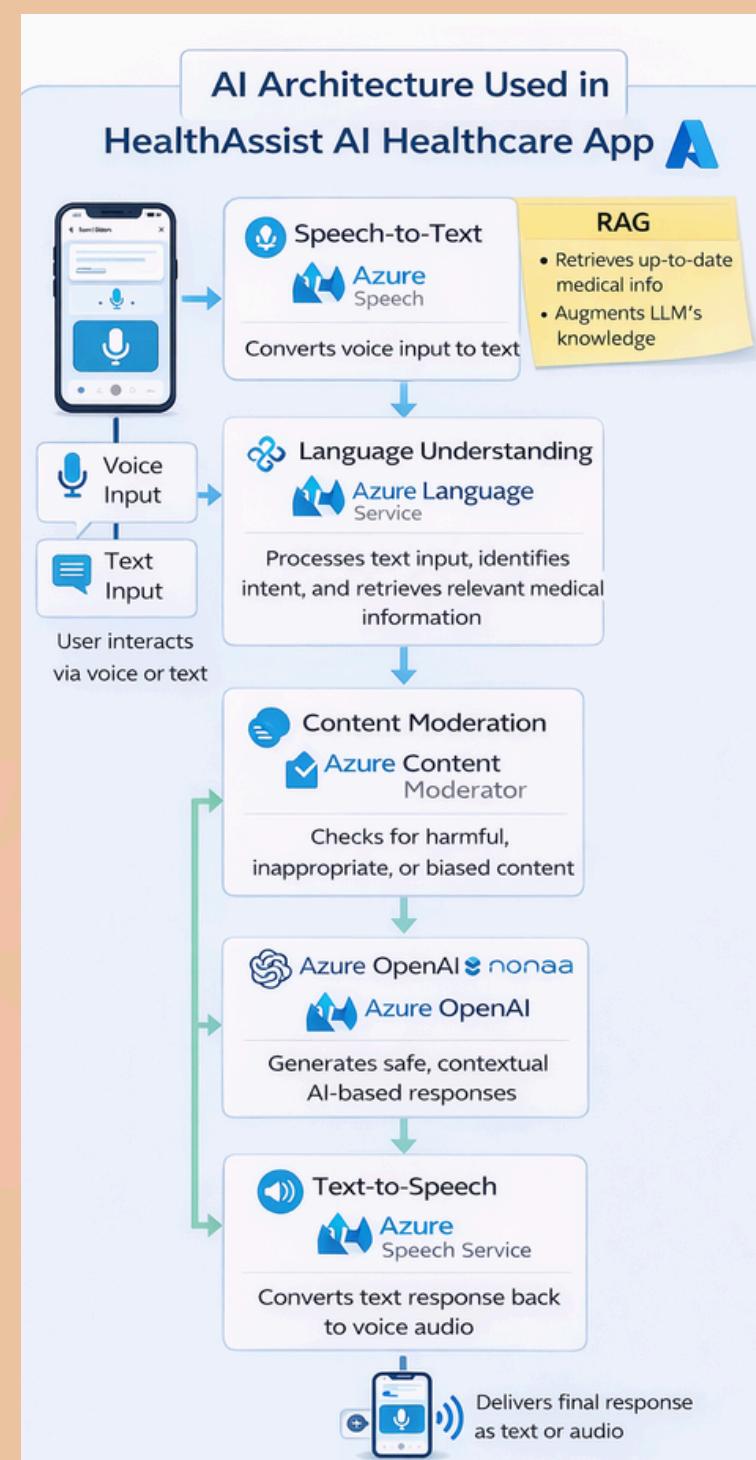


APP SCREENS AND DEMO



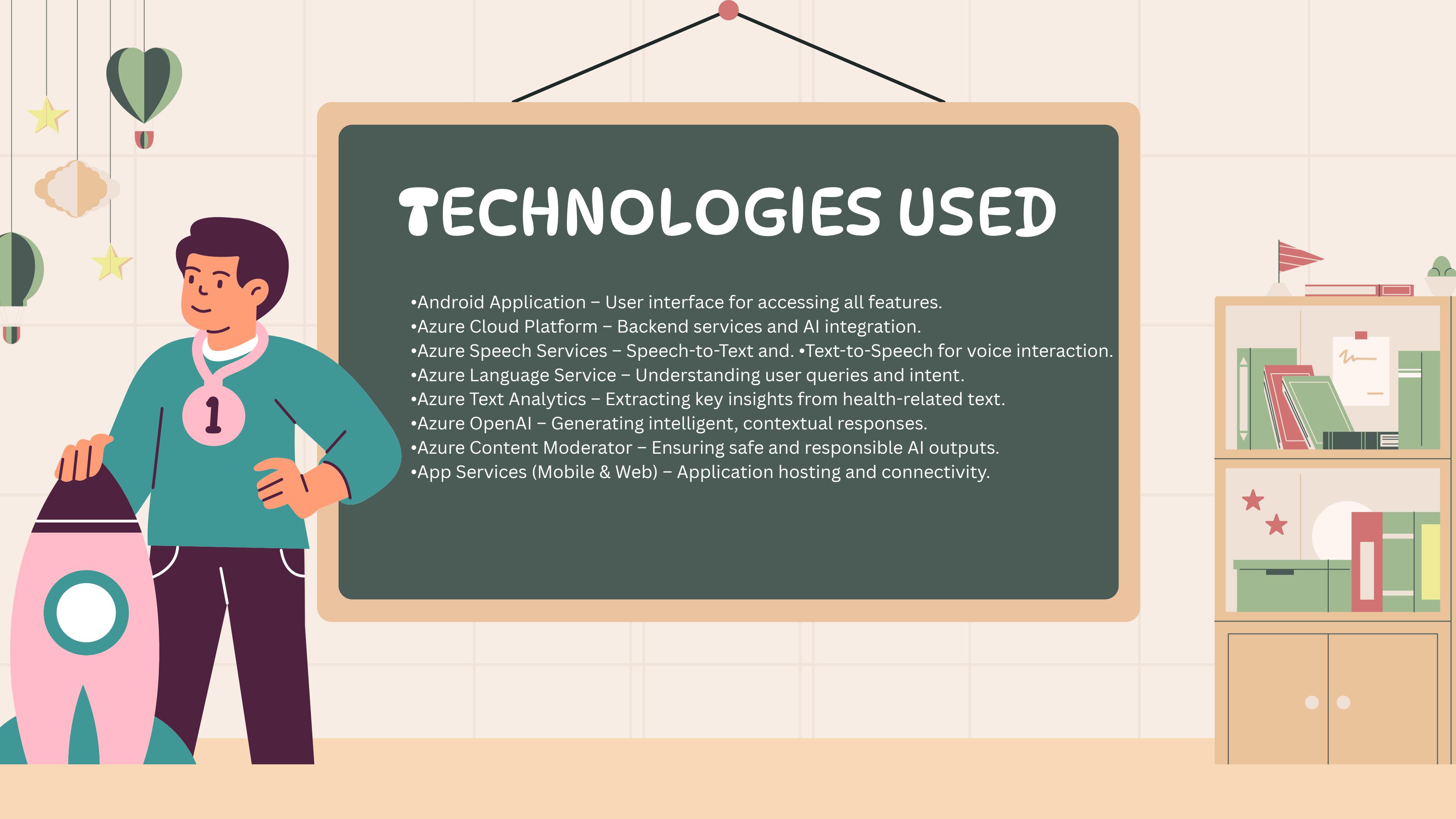
AZURE AI ARCHITECTURE

- User interacts with the mobile app using voice or text.
- Voice input is converted to text using Azure Speech to Text.
- Text is processed using Azure Language Service.
- Insights are extracted using Azure Text Analytics.
- Content safety is checked using Azure Content Moderator.
- Safe content is sent to Azure OpenAI for response generation by using Retrieval Augmented Generation with azure services to fetch grounded facts.
- Generated response is converted to audio using Azure Text to Speech.
- Final response is delivered back to the user through the app.



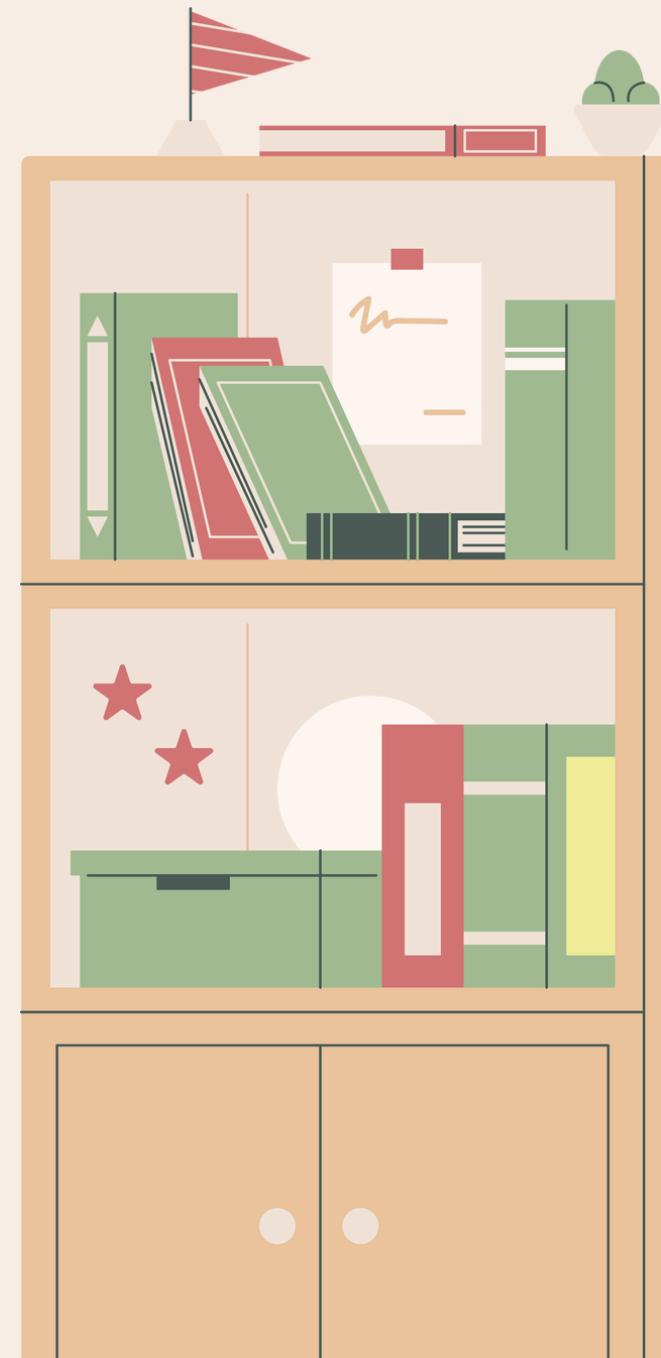
TECHNOLOGIES USED

- Android Application – User interface for accessing all features.
- Azure Cloud Platform – Backend services and AI integration.
- Azure Speech Services – Speech-to-Text and. •Text-to-Speech for voice interaction.
- Azure Language Service – Understanding user queries and intent.
- Azure Text Analytics – Extracting key insights from health-related text.
- Azure OpenAI – Generating intelligent, contextual responses.
- Azure Content Moderator – Ensuring safe and responsible AI outputs.
- App Services (Mobile & Web) – Application hosting and connectivity.



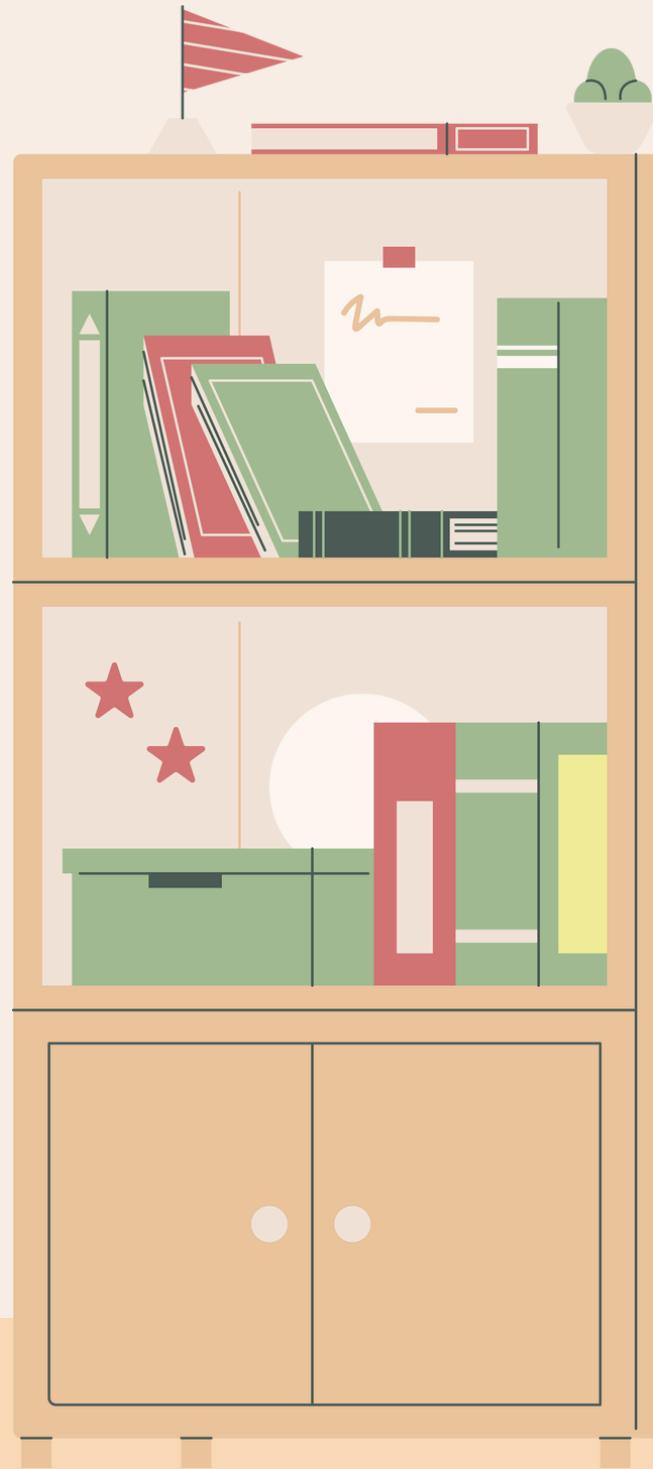
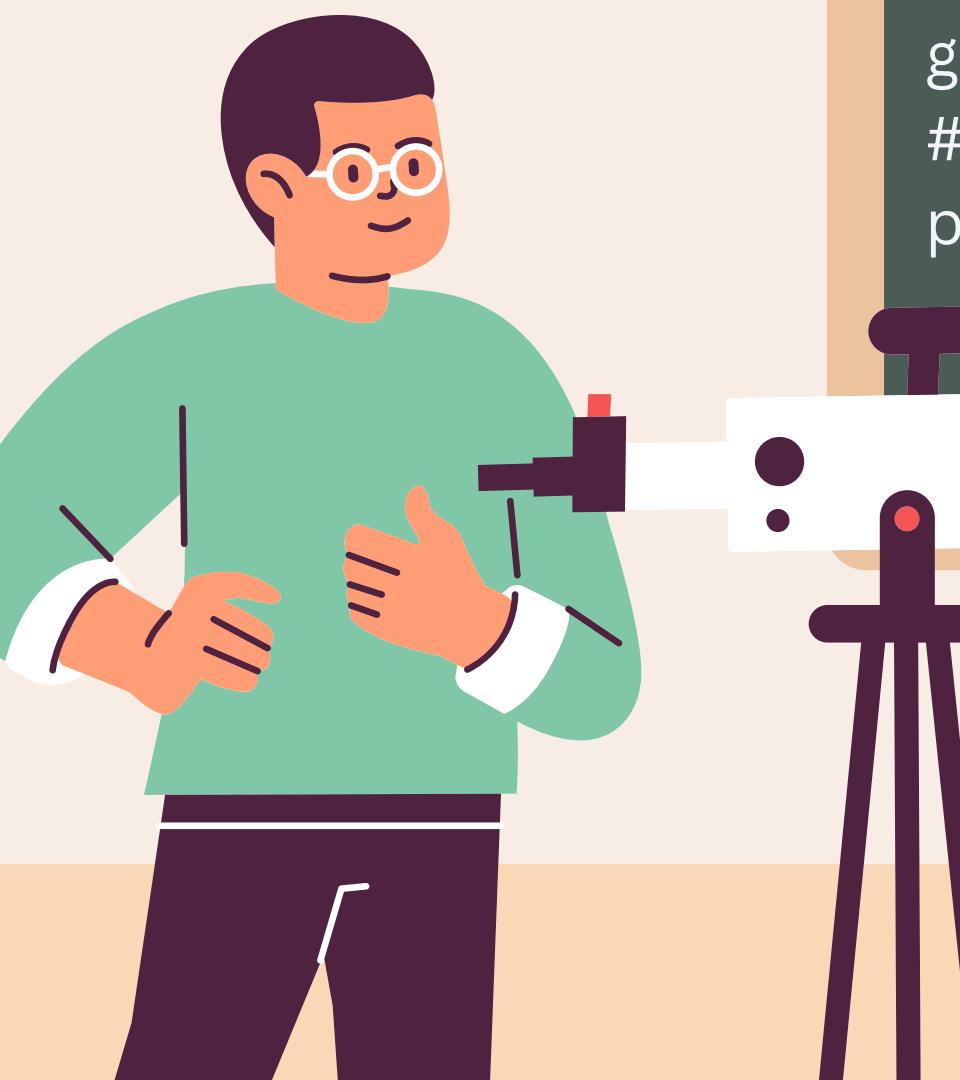
RESPONSIBLE AI

- Human-Centered Design:
- The application supports users with information but does not replace doctors or provide medical diagnosis.
- Safety & Content Moderation:
 - Azure Content Moderator is used to filter harmful, misleading, or unsafe medical content.
- Transparency:
 - Users are clearly informed that the app provides guidance and information, not professional medical advice.
- Privacy & Data Protection:
 - User voice and text inputs are processed securely, and no sensitive data is misused or shared.
- Fairness & Accessibility:
 - Multilingual voice and text support ensures accessibility for users from different regions and literacy levels.
- Reliability & Accuracy:
 - Azure AI services are used to provide consistent, accurate, and well-structured responses.
- User Control:
 - Users decide what information to provide and can choose between voice or text interaction.



IMPACT AND BENEFITS

- # Projected to reach ~230 million by 2036 with over 70% in rural areas facing limited healthcare access.
- # App targets undeserved elderly or rural users promoting adherence awareness of schemes (PMJAY, Ayushman Bharat) and safe AI guidance.
- #Contributes to SDG 3 (Good Health and Well - Being) by reducing preventable deaths and improving equality in access



CONCLUSION

This project demonstrates how Microsoft Azure AI can be used responsibly to improve healthcare accessibility and awareness which leads to agenda “Empowering millions with accessible , responsible AI. It is a meaningful step toward inclusive AI - driven healthcare in India.The application is designed to be available on smartphones, making it easy for users to access health guidance, hospital information, and medication reminders anytime and anywhere. We sincerely thank Microsoft Imagine Cup and Microsoft for providing this valuable opportunity to learn, innovate, and build solutions using AI for social good.

THANK YOU

