

AI for Bharat Hackathon

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Team Name : Team Techno

Team Leader Name : Harshada Jagdish More

Problem Statement : **AI for Communities, Access & Public Impact**
[HealthLink AI - SehatSathi]

Brief about the Idea: SehatSathi

AI for Accessible Healthcare in Underserved Communities

Millions of people in rural, low-income, and underserved communities lack access to timely and reliable healthcare information. Due to shortage of doctors, long travel distances, language barriers, and low health awareness, people often depend on self-medication, local myths, or delayed treatment. This leads to worsening health conditions and avoidable emergencies.

It helps users:

- Understand and assess symptoms
- Get safe first-aid guidance
- Decide when hospital care is urgently needed
- Manage healthcare for multiple family members under one account



△□ “This is not replacing doctors — it helps families decide **what to do next, fast and safely.**”

Existing System Survey and Limitations :

Existing Solution	Description	Limitations / Gaps
Practo	Symptom checker, doctor appointment booking	Mostly urban users, limited rural reach, paid consultations
mfine	AI-powered symptom checker, telemedicine	Limited voice support, English language focused
Ada Health	AI symptom checker with detailed guidance	No Indian-specific hospital referral, family multi-profile support missing
WHO/CDC apps	Health guidelines, outbreak updates	Static info, no real-time symptom analysis or local hospital referrals

How will it be able to solve the problem :

1. Symptom Clarity

- AI checks symptoms
- Labels risk: **Low / Medium / High**
- Tells: First aid or Go to hospital
- ✓ Removes confusion

2. Stops Unsafe Treatment

- No medicine prescription
- Only safe first aid
- Based on WHO guidelines
- ✓ Prevents harmful self-medication

3. Emergency Detection

- Identifies danger signs
- Shows emergency alert
- Directs to hospital
- ✓ Saves time, saves lives

4. Civil Hospital Access

- Finds nearest government hospital
- Shows OPD / emergency details
- Suggests correct department
- ✓ Makes public healthcare usable

5. Family Care in One App

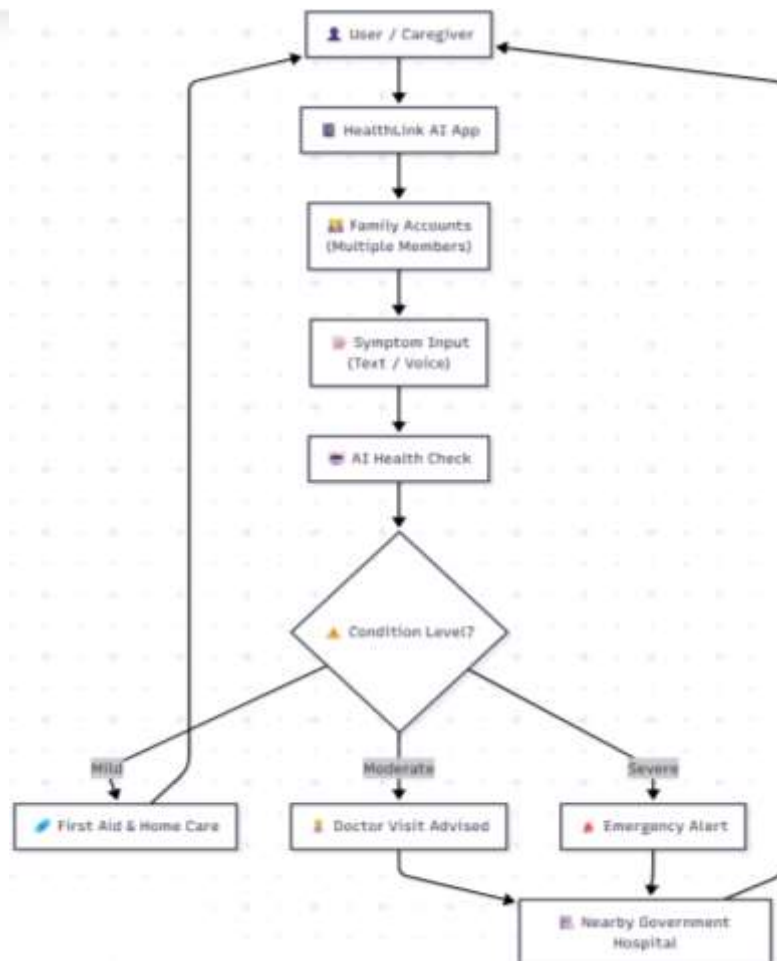
- One account, many family profiles
- Advice based on age & risk
- ✓ Covers entire family

6. Language & Voice Support

- Voice + text input
- Multiple languages
- Simple instructions
- ✓ Accessible for all

USP of proposed idea :-

- Family-Centric Healthcare AI
- Clear hospital referral for serious cases
- Focus on government & public hospitals
- Multilingual + voice-first design
- Works in low-bandwidth environments
- Ethical AI – no risky medicine prescriptions

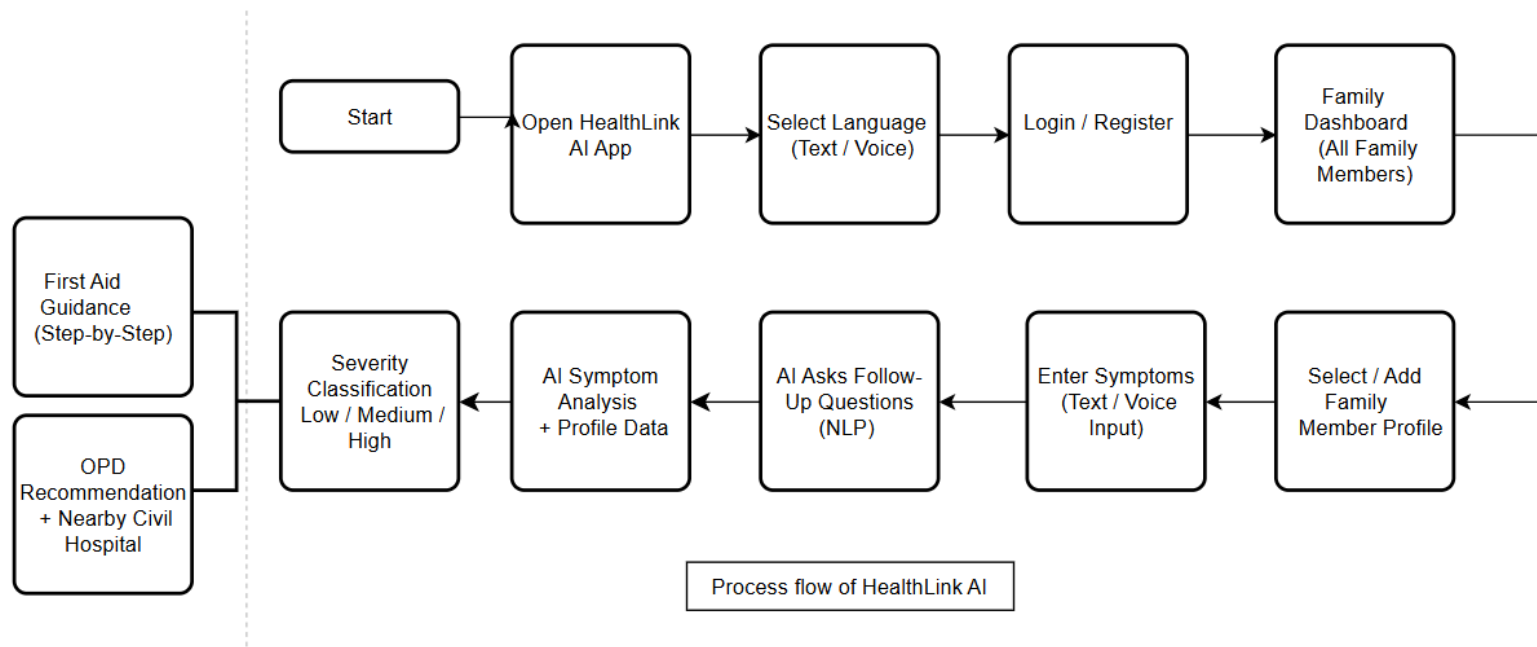


List of features offered by the solution

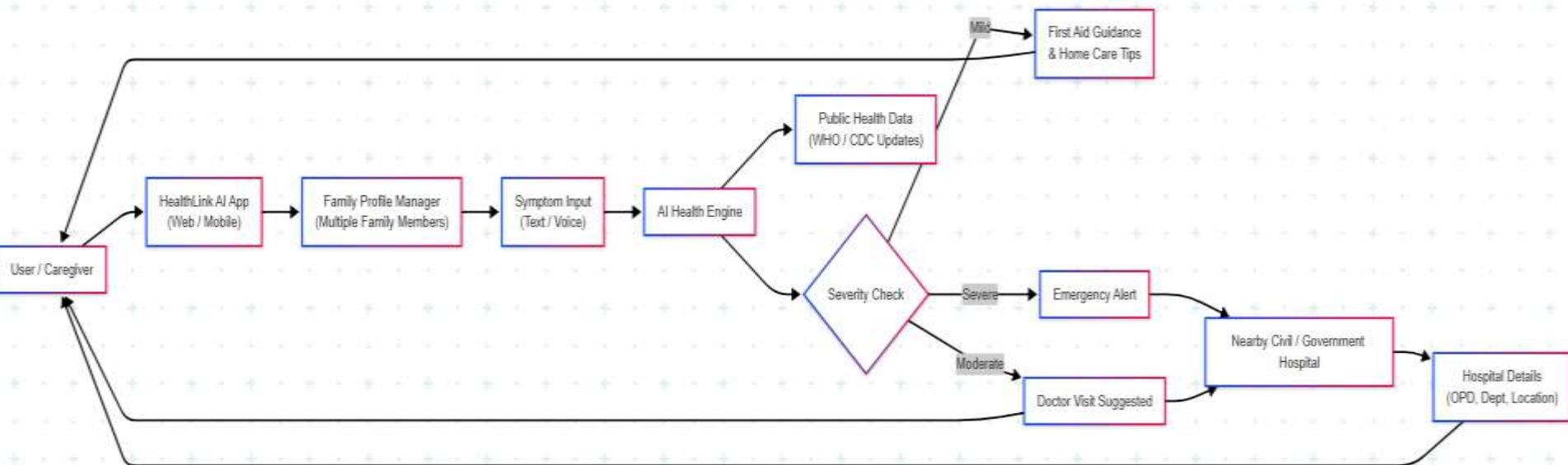
- Multi-family profile management
- AI-powered symptom checker
- First-aid guidance module
- Intelligent triage system
- Civil hospital locator & OPD guidance
- Multilingual & voice interface
- Public health updates (WHO, Govt portals)



Process flow diagram of Solution



Architecture diagram of the solution:



Technologies to be used in the solution:

Frontend: Streamlit / React, HTML, CSS (simple & accessible UI)

Backend: Python with FastAPI / Flask (API-based architecture)

AI & NLP: Symptom understanding, rule-based risk classification (Low / Medium / High)

First-Aid Logic: WHO guideline-based safe recommendations (no medicines)

Database: SQLite / Firebase for family profiles & session data

APIs & Deployment: OpenStreetMap (hospital locator), Streamlit Cloud / AWS

Why HealthLink AI Matters :

Public Impact Focus: Addresses healthcare access gaps in rural and underserved communities

AI for Communities: Uses AI/NLP to assist users in understanding symptoms and urgency

Responsible AI Usage: No diagnosis or prescriptions; AI used only for decision support

Accessibility & Inclusion: Multilingual, voice-based interaction for low-literacy users

Use of Public Data: WHO health guidelines and government hospital datasets

Bharat-Ready Solution: Designed for low-bandwidth environments and scalable deployment

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