



A Patient-First Healthcare Platform for Simple, Personal, Connected Care

Overview

HealthX-AI is an integrated health platform designed to transform the fragmented, stressful experience of modern healthcare into a single, smooth, human-centered journey.

It brings together AI-powered diagnostics, personalized voice assistance, routine planning, and community support in one seamless application.

Key Problems We Saw

1. Fragmented Apps

- Different apps for booking, fitness tracking, reports.
- No unified patient journey.

2. Hard to Explain Symptoms

- Patients struggle to describe what they feel.
- Leads to misdiagnosis or delay.

3. Inconsistent Health Routines

- Motivation drops.
- Lack of reminders and planning support.

4. Health Data is Boring/Abstract

- Just numbers and graphs.
- No emotional connection.

5. Diagnostics are Slow and Fragmented

- Multiple systems needed for different conditions.

- Reliance on specialists not always available.

6. Lack of Trusted Community Support

- Patients rely on unsafe online forums.
- No moderated, reliable space.

Comparison with Existing Apps

Platform Name	Future Health Simulation	Emotion Adaptive Coaching	Personalized Risk Prediction	Secure Offline Analysis	Visual Disease Diagnostics	Doctor Bridge Protocol
Healthx AI	✓	✓	✓	✓	✓	✓
Thrive AI	✗	✓	✓	✗	✗	✗
Ada Health	✗	✗	✓	✗	✗	✗
K Health	✗	✗	✓	✗	✗	✗
Empatica	✗	✗	✗	✗	✗	✗
BeEmotion	✗	✓	✗	✓	✗	✗
Earkick	✗	✓	✗	✗	✗	✗
Eko Health	✗	✗	✗	✗	✗	✗
EmoBay	✗	✗	✗	✗	✗	✗
Babylon	✗	✗	✓	✗	✗	✗

Comparison with Existing Services

Feature	Existing	HealthX-AI
Symptom Reporting	Text-based forms	Voice-based natural conversation
Routine Planning	Manual checklists	Voice-enabled, smart adaptive planner
Health Data Visualization	Numbers, graphs	3D Lifestyle Avatar
Diagnostics	Single-purpose models	YOLOv8 multi-condition analysis
Offline Capability	Often missing	Full offline support with TF Lite
Privacy	Cloud-centric	Local processing wherever possible
Community Support	Generic forums, no curation	Moderated, safe Healthcare Hub

⚡ Core Features

1. Voice-Based Medical Simulator

- Enables natural conversation to generate structured medical reports.

2. VAPI Voice Agent & Routine Planner

- Voice-enabled daily health task planning.
- Offline-capable, private, and adaptive.

3. 3D Lifestyle Avatar

- Visually reflects the user's health journey.
- Designed to foster emotional connection and boost motivation.

4. MedVit Image Analysis

- YOLOv8-based system that can detect over 8 conditions in a single scan.
 - Supports offline processing using TensorFlow Lite.
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5. Healthcare Community Hub

- Moderated, reliable question-and-answer space.
 - Enables users to learn from peers and professionals.
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User Experience / Dashboard Highlights

- Health Monitor with evolving Avatar.
 - Clean cards for BMI, health scores.
 - Room Schedule for daily tasks/reminders.
 - MedVit analysis results at a glance.
 - Voice Agent always available for help.
 - Designed for accessibility and ease of use.
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HackOrbit Progress Log – Team StellarSync5.0

This section documents the development timeline of HealthX-AI during the HackOrbit hackathon, highlighting progress checkpoints, technical milestones, and upcoming tasks.

July 8 — Hackathon Day 1

Checkpoint 1 — 1:00 PM

Problem Understanding

We identified the core issue: fragmented access to reliable healthcare tools. The objective is to develop a unified, patient-first healthcare experience platform.

Progress

- Established core layout and UI framework
- Structured repository for modular development

Technology Stack and Highlights

- Tailwind CSS used for responsive, utility-first design
- GSAP implemented for smooth animations and transitions
- Layout designed for future AI and backend integrations
- Built with accessibility and simplicity in mind

Next Steps

- Develop interactive UI components
 - Refine user flow and visual design
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Checkpoint 2 — 2:00 PM

Progress

- UI refinements completed
- AI chatbot component integrated

- Submitted the project presentation (PPT) to the GitHub repository
- Updated the README for this checkpoint

Next Steps

- Continue development on user dashboard features
 - Ensure seamless integration and consistent user experience
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Checkpoint 3 — 4:00 PM

Progress

- Initial implementation of user dashboard
- Several features functional and interactive
- Remaining features designed (UI-ready, pending backend)
- README updated with latest changes

Next Steps

- Backend integration for dashboard features
 - Conduct usability testing of current flows
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Checkpoint 4 — 6:00 PM

Progress

- Extended dashboard feature development
- Improved interactivity and refined existing features
- Backend integration in progress
- Documentation updated

Next Steps

- Complete integration of pending features
 - Prepare for full end-to-end testing
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Checkpoint 5 — 8:00 PM

Progress

- Additional dashboard features completed
- Initiated debugging and QA planning
- Synced README with current implementation status

Next Steps

- Debug and validate existing features
 - Begin remaining development work
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July 9 — Hackathon Day 2

Checkpoint 1 — 2:00 PM

Progress

- Started building the community section
- Core dashboard functionality finalized

- Documentation updated

Next Steps

- Finalize dashboard layout and structure
 - Begin comprehensive documentation updates
 - Conduct initial testing and debugging
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Checkpoint 2 — 4:00 PM

Progress

- Dashboard fully completed
- Enhanced UI with community section integration
- Updated README to reflect new changes

Next Steps

- Perform targeted bug fixes
 - Ensure seamless integration across modules
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Checkpoint 3 — 6:00 PM

Progress

- Documentation improved for clarity and completeness
- Further development on the community page
- Completed several minor bug fixes
- README updated

Next Steps

- Final testing and validation of all integrated components
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Open Source Vision

We believe healthcare innovation should be open.

1. Clear documentation.
 2. Modular codebase.
 3. Community contributions welcome.
 4. Focus on privacy, accessibility, and scalability.
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