

HACK THE GAP 2026

TITLE PAGE

- Team Name: CodeX
- Problem Statement Title: HealneX – Seamless Healthcare Innovation
- Theme: Healthcare
- Category: Software

IDEA TITLE

Core Problems

- Limited access in rural & underserved areas
- Disconnected medical records across providers
- High consultation & treatment costs
- Poor continuity of care and follow-up
- Trust gap towards digital consultations



Proposed Solution – HealneX

- Unified digital platform for patients, doctors, and admins
- Quick OTP & DigiLocker signup
- Secure appointment booking, payments, and teleconsultation (video, voice, chat)
- Medical record upload and management with privacy
- AI driven insights, engagement rewards, and referrals
- Preventive care via reminders, early risk alerts, and health monitoring
- Mental health and wellness support through teleconsultation
- Multilingual support for regional accessibility
- Voice assistance and screen reader support for visually impaired users

TECHNICAL APPROACH

- Proven web & mobile tech; scalable microservices – Python Flask
- Integration with payment & messaging APIs – Stripe & Twilio
- Cloud-ready, modular & multi-region deployment - Render
- AI analytics for personalised recommendations - Transformers Model
- AI driven public health analytics using anonymized data for population level insights.
- AI powered automation agents for appointment reminders, follow ups, and message based interactions.
- AI powered doctor discovery with advanced filtering



- User Service
- Teleconsult Service
- Appointment Service
- Record Service
- Payment Service
- Notification Service

IMPACT POTENTIAL

Access

Improved access for remote populations

Cost

Reduced healthcare costs

Continuity

Better continuity & outcomes

Trust

Increased trust & transparency

- Integration with government public healthcare centers (PHCs)

- Assisted access for illiterate users through PHC support
- Increased patient trust via government backed accountability

Target Audience & Stakeholders

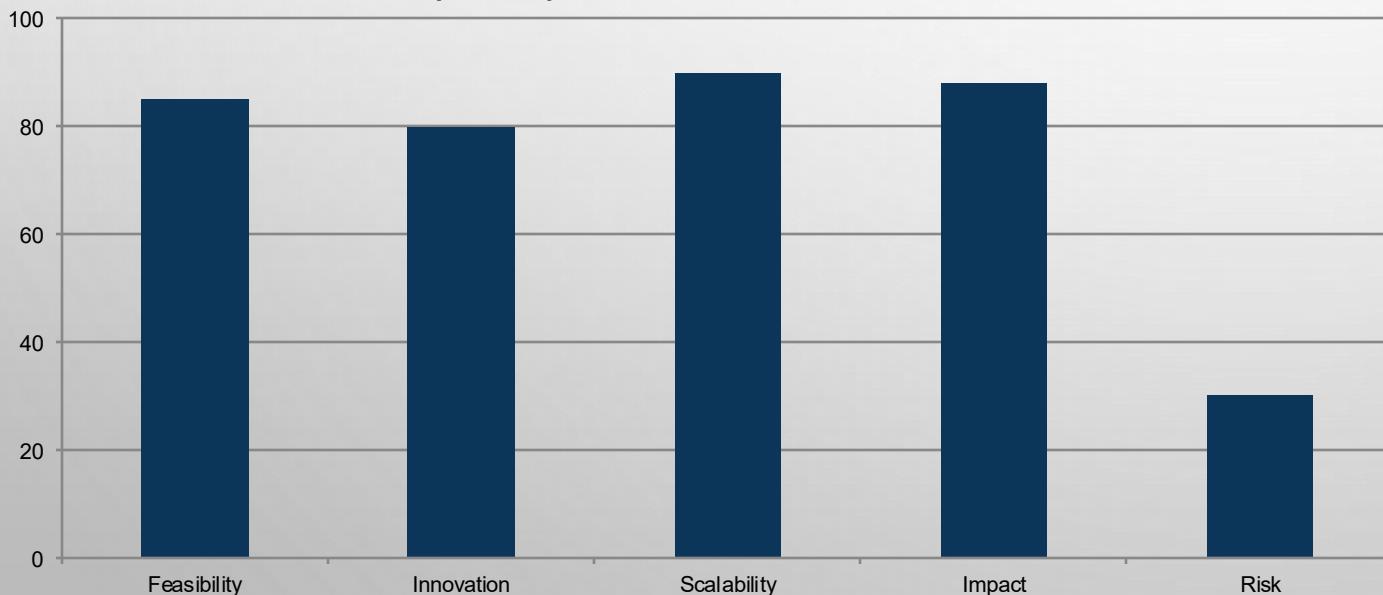
- Patients (remote & underserved)
- Doctors & clinics
- Administrators & policy makers
- Technology partners & regulators

Expected Measurable Impact

- Higher adoption of teleconsultations & reduced wait times
- Lower out-of-pocket expenses for patients
- Enhanced continuity & adherence to care
- Greater trust & satisfaction in digital health

Feasibility & Scalability

- Built on proven web and mobile technologies
- Integrated payment and messaging APIs
- Modular microservices based architecture
- Cloud ready, multi region, and regulation adaptable
- Multilingual support across regions
- Scalable system for future portable diagnostic device integration
- Automated real time messaging and workflow automation
- Reduced legal and operational risk through government partnership
- Shared accountability with public healthcare institutions



Risks & Mitigation

- Digital divide & adoption barriers
- Data security & privacy concerns
- Regulatory compliance challenges
- High implementation & maintenance costs
- Mitigation: pilot programmes, robust encryption, partnerships & user education

Future Scope

- Critical support during pandemics and public health emergencies
- Extension of healthcare services to animal patients
- Tiered care levels for structured treatment and follow ups
 - Level 1: Basic consultation
 - Level 2: Diagnostics and lab reports
 - Level 3: Advanced care and surgery