

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

● Appointment Service

● Payment Service

● Teleconsult Service

● Record 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

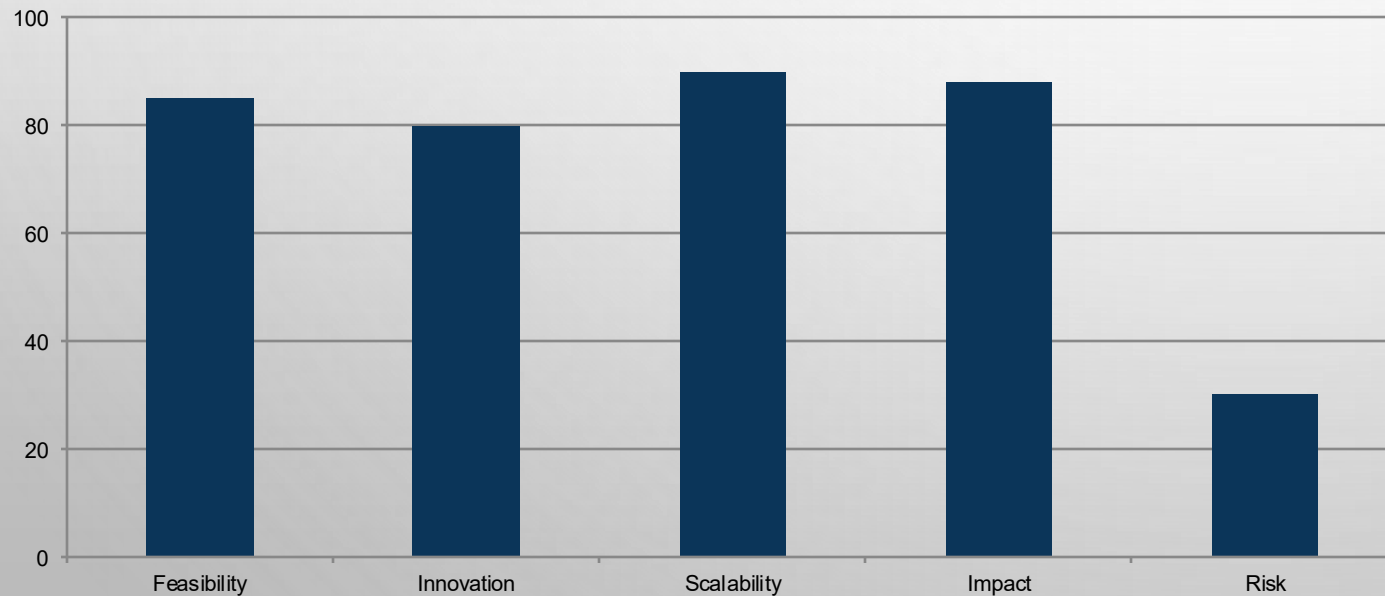
- Patients (remote & underserved)
- Doctors & clinics
- Administrators & policy makers
- Technology partners & regulators

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