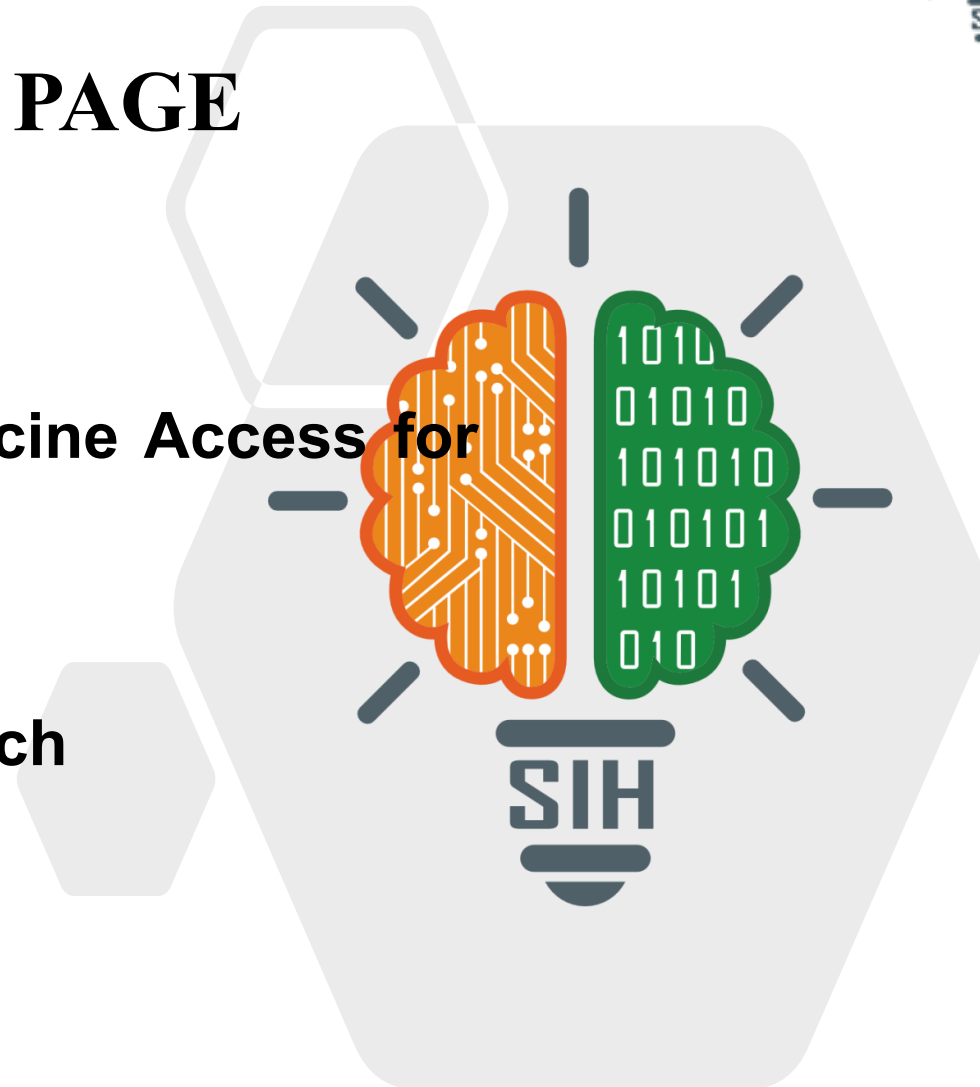


# SMART INDIA HACKATHON 2025



## TITLE PAGE

- **Problem Statement ID – SIH25018**
- **Problem Statement Title- Telemedicine Access for Rural Healthcare in Nabha**
- **Theme- MedTech/BioTech/HealthTech**
- **PS Category- Software**
- **Team ID- NSIIC-SIH25-0001**
- **Team Name: K.Nex**



# Swasthya Gram Setu

## Solution

We propose a multilingual telemedicine platform for rural Nabha that lets patients check doctor availability, book appointments, and consult via video call. The app includes a low bandwidth friendly AI symptom checker and a real-time medicine tracker across Civil Hospital, Jan Aushadhi, and more. If medicines are unavailable, it auto-suggests the nearest pharmacy and supports optional delivery through local tie-ups.

Patients get offline health records with QR-linked ABDM cards plus a scheme eligibility checker for govt health benefits. With ASHA/ANM worker integration and one-tap emergency ambulance alerts, it forms a complete, scalable rural healthcare ecosystem.

## Address the problem

- Doctor Shortage
- Medicine Unavailability
- Poor Internet Access
- Low Health Awareness
- Travel & Time Burden
- Fragmented System

## Innovation

- Voice/IVR design
- Complete Healthcare Chain
- AI-Powered Medicine Finder
- Empowered ASHA/ANM Workers
- ABDM-Linked QR Health Cards
- Scalable Pilot-to-Nation Model

## App Development

- React Native
- Appwrite
- Firebase
- Clerk
- Tailwind CSS

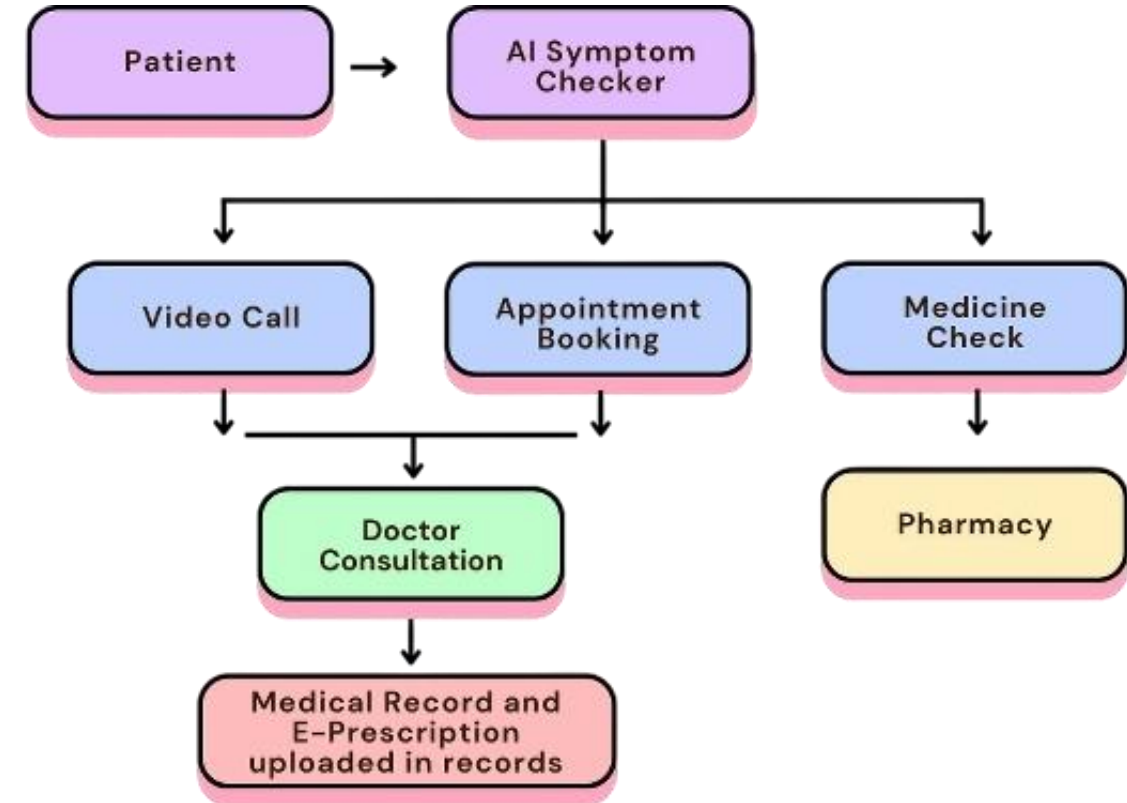
## Tech Stack

### AI/ML

- Python
- PyTorch
- TensorFlow

### Database & APIs

- SQLite
- Node.js
- REST/GraphQL APIs



## Workflow

# FEASIBILITY AND VIABILITY

## Feasibility

### Technical Feasibility

Easy to develop, scale, and maintain.

### Operational Feasibility

The solution leverages to bridge digital gaps, requires minimal hardware

### Economic Feasibility

It is of low cost for development and strong impact for workers

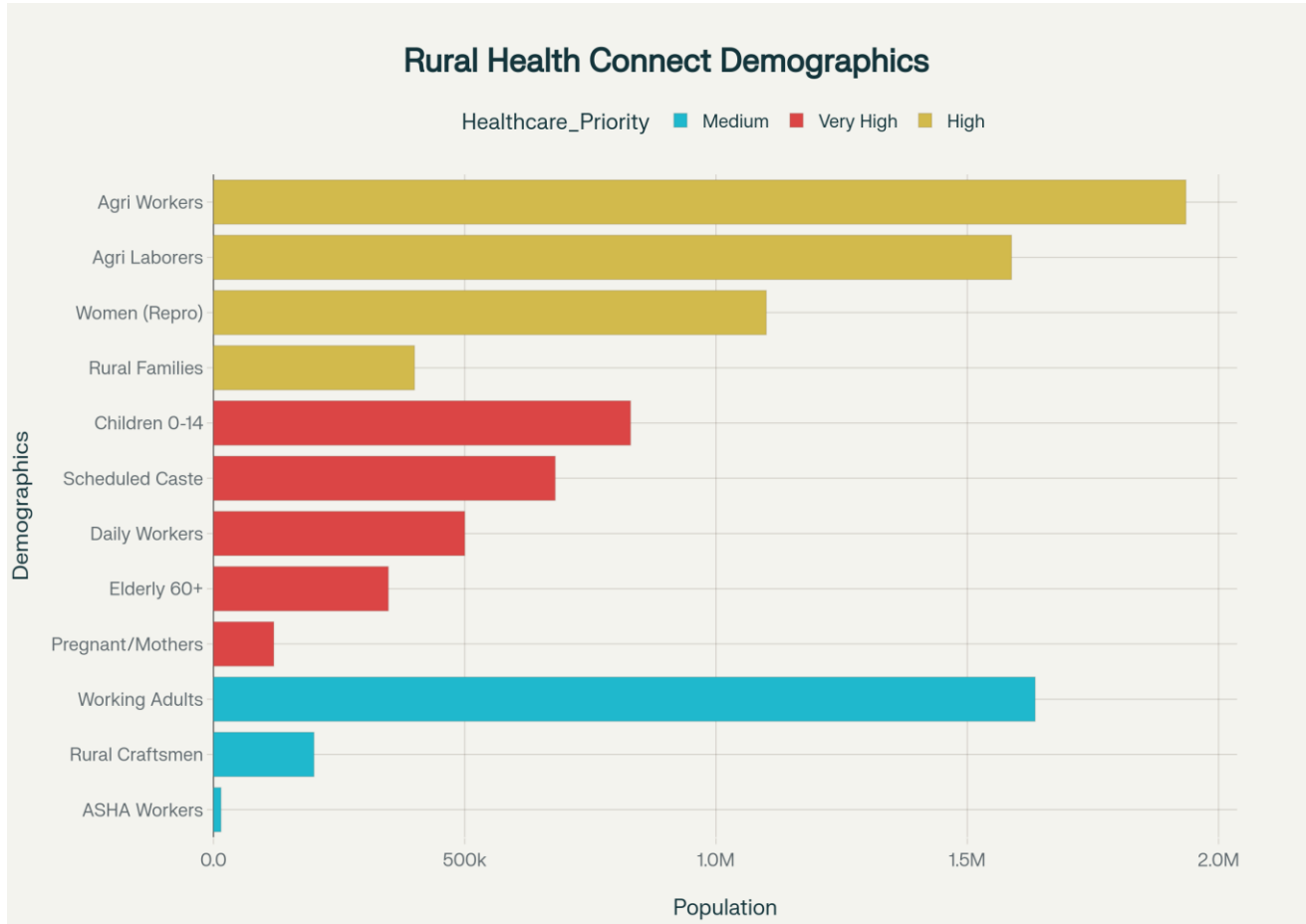
### Potential challenges and risks

- Low internet penetration
- Hesitation to adopt digital workflows.
- Data privacy & security risks
- Patient Trust issues
- Digital literacy gap

### Strategies for overcome the challenges

- Training and Awareness
- Delivery Logistics
- Data Security
- Connectivity Solution
- AI Limitations
- Digital Literacy

## Target Audience



### Social Benefits

- Reduced patient suffering due to timely treatment & medicine availability.
- Empowerment of ASHA/ANM health workers with digital tools.
- Increased awareness of government health schemes.

### Economic Benefits

- Saves travel costs and daily wage loss for farmers & workers.
- Reduced out-of-pocket expenses due to optimized medicine availability & scheme eligibility checks.
- doctors use time efficiently, improving productivity.

### Environmental Benefits

- Digital records cut down on paper prescriptions & files.
- Encourages resource-efficient healthcare.

# RESEARCH AND REFERENCES

- NITI Aayog's National Digital Health Blueprint / NDHM Strategy Overview – Ministry of Health & Family Welfare- [NITI Aayog](#)
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- Systematic review of AI + telemedicine adoption in rural communities- [PMC](#)
- Telemedicine in rural Punjab: Smile Foundation case study- [Smile Foundation](#)
- Punjab government report on rural medical officer shortage- [The Times of India](#)