SMART INDIA HACKATHON 2025

- **Problem Statement ID –** 25018
- **Problem Statement Title-** Telemedicine access for Rural Healthcare in Nabha
- **Theme-** HealthTech / BioTech
- **PS Category-** Software
- **Team ID-** 60675
- **Team Name -** VUCA

VUCA

JEEVIKA

SMART INDIA HACKATHON 2025

PROBLEM

- Severe doctor shortage
- Lack timely medical care
- Poor connectivity/infrastructure
- Undetected early illnesses
- Missed routine follow-ups

SOLUTION

- Offline-first, multilingual access
- Secure offline health records (EHR)
- Real-time medicine availability
- AI-based symptom triage
- Emergency and appointment SMS alerts

VUCA

TECHNICAL APPROACH

SMART INDIA HACKATHON 2025

Android:

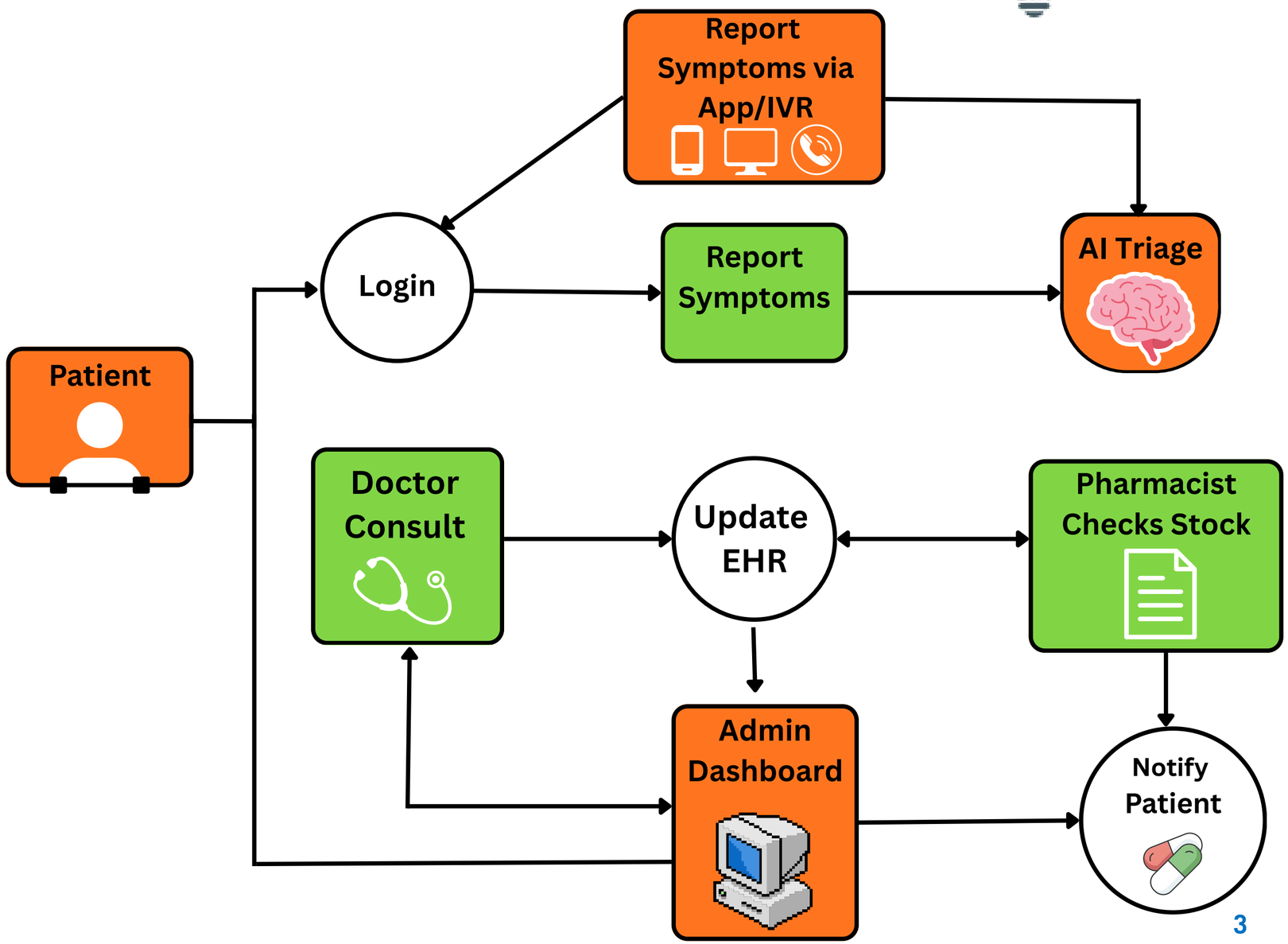
- Kotlin-based app
- Multilingual UI
- Encrypted offline storage
- Adaptive video/voice/SMS

Web:

- Node/Javamicroservices
- OpenMRS-compatible EHR backend
- Pharmacy CSV/API uploader

Machine Learning:

- On-device AI rules
- Symptom triage ML models Cloud AI augmentation



VUCA

FEASIBILITY AND VIABILITY

SMART INDIA HACKATHON 2025

Open-Source Foundation

Utilizes proven, community-supported open-source platforms, ensuring flexibility, transparency, and continuous improvement.

Offline-First Design

Designed to work efficiently without internet, enabling uninterrupted service in remote and connectivity-challenged regions.

Minimal Training

Easy-to-use interfaces with straightforward workflows mean staff and partners can start quickly with little training.

Highly Affordable

Operates at a low cost per user and easily scales across rural areas, maximizing healthcare impact with minimal investment.

USP

IVR System - For non-smartphone users

Our Unique Selling Point is the IVR System which is basically for th non-smartphone users providing easy accessiblity using STD codes. The users can schedule appointment look up for medicine availability , in short all the features in the application

VUCA

IMPACT AND BENEFITS

SMART INDIA HACKATHON 2025

Early Illness Detection & Intervention

Utilizes proven, community-supported open-source platforms, ensuring flexibility, transparency, and continuous improvement.

Multilingual, Inclusive Healthcare

Real-time data dashboards help health authorities prioritize interventions and resources, driving effective public health management.

Reduced Patient Travel

Patients receive medical advice and access medicines locally, eliminating long and costly journeys for consultations and refills.

Wage Protection for Workers

Minimizes work absences and wage losses for patients and their families, important in rural, daily wage-dependent communities.

Timely, Data-Powered Decisions

Real-time data dashboards help health authorities prioritize interventions and resources, driving effective public health management.

Lowered Healthcare Costs

Digital-first workflows make processes efficient and sustainable, reducing operational costs and environmental impact.

VUCA

RESEARCH AND REFERENCES

SMART INDIA HACKATHON 2025

Docs -

- https://pmc.ncbi.nlm.nih.gov/articles/PMC7278514/
- https://www.digitalhealthnews.com/rethinking-rural-health-india-s-digital-revolution-takes-root
- Research Papers -
- https://drive.google.com/drive/folders/1qgDLnJIdCgARnCuLMSTbZk2Ogyb-pIFJ?usp=sharing
- https://pmc.ncbi.nlm.nih.gov/articles/PMC7278514/
- https://www.digitalhealthnews.com/rethinking-rural-health-india-s-

- **National Telemedicine Guidelines (India)**
- **OpenMRS, Intelehealth, OpenSRP "India**
- **Telemedicine Market 2025" (EY/IBEF) Data:**
- **Punjab Health Dept, Nabha Civil Hospital**
- **Telemedicine pilots: WHO, BMGF**

Team Leader: Mayank Srivastava

Team Member:

- **Kanak yadav**
- **Harsh Gupta**
- **Ayush Singh**
- **Aryaveer Soni**
- **Chitwan Bhajpeeyi**

Mentor: Dr. Meeta Chaudhry

Sector: HealthTech / BioTech