



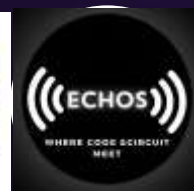
# J.B.INSTITUTE OF ENGINEERING AND TECHNOLOGY

(UGC AUTONOMOUS)

Accredited by NAAC & NBA, Approved by AICTE & Permanently Affiliated to JNTUH



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# TEAM DETAILS

➤ **SELECTED TRACK**

- HEALTH CARE

➤ **PROBLEM STATEMENT**

- SMART HEALTH RECORD  
MANAGEMENT SYSTEM

➤ **TEAM NAME**

- COFFEE AND CONFUSION

➤ **TEAM LEAD**

- B.SANJANA

➤ **DEPT. NAME**

- AIML-B





# PROBLEM STATEMENT

- Fragmented healthcare systems make it hard for patients to manage their medical records.
- Doctors lack unified patient history, leading to repeated tests and errors.
- Rural patients struggle with accessibility and language barriers.

# OUR SOLUTION




- An AI-powered platform that centralizes patient records securely.
- Supports multilingual UI (English, Hindi, Urdu, Telugu).
- Patients control who accesses their records via QR or time-limited links.
- Integrates with ABDM Health IDs and Aadhaar authentication.



# KEY FEATURES - PATIENTS

-  Upload lab reports, prescriptions, scans (PDF, Image, Text).
-  AI summarizes medical data in simple language.
-  Health Dashboard: trends, insights, and preventive tips.
-  Share reports securely with doctors.

# KEY FEATURES - DOCTORS

-   Access shared reports and AI summaries.
-  Add recommendations or prescriptions.
-  View patient history and analytics.
-  AI-assisted disease pattern insights.



# SYSTEM ARCHITECTURE

- Frontend: React Native (mobile) & React (web).
- Backend: Node.js / Python (FastAPI).
- Storage: Encrypted S3 + PostgreSQL.
- AI Modules: OCR, Summarization, Trend Detection.
- Integrations: ABDM, Aadhaar, Hospital APIs.


AI IN HEALTHCARE

# AI INTEGRATION

- OCR extracts text from reports.
- Summarization models simplify technical jargon.
- Health pattern analysis detects early risks (BP, sugar levels).
- Personalized preventive care recommendations.



# SECURITY & PRIVACY



- Aadhaar-level encryption and consent-based sharing.
- Compliant with IT Act 2000 and ABDM guidelines.
- Role-based access control with audit trails.
- Anonymized data for regional disease analytics.

# IMPACT

- ✓ 45% reduction in duplicate tests.
- ✓ ₹500-₹1200 annual savings per patient.
- ✓ Enhanced rural connectivity through PHC & telemedicine.
- ✓ Improved doctor-patient collaboration and transparency.

# TECH STACK

- Frontend: React, React Native, Tailwind CSS.
- Backend: Node.js / Python (FastAPI).
- Database: PostgreSQL, S3, ClickHouse (analytics).
- AI/ML: PyTorch, Hugging Face models.
- Deployment: Docker, Kubernetes, GitHub Actions.



# TEAM COFFEE AND CONFUSION

- 👤💻 Developers:-Mudassar,Vasuki,Sanjana,Jayanth
- 📄 AI Engineer: Mudassar
- 📄 Domain Expert: Vasuki,Jayanth
- 🎯 Vision: Making healthcare records accessible, intelligent, and secure.

Our Health Our Care

# THANK YOU

- Smart Health Record Management System
- Bridging healthcare gaps with AI and empathy.
- Team Coffee and Confusion | HACKX 2025

