



MEDICONNECT



National Institute of Technology
Rourkela, Odisha



PROBLEM STATEMENT



1. Fragmented Healthcare Ecosystem:

- 85% of patients face challenges in finding doctors, booking appointments, and managing records.
- over 40% of missed or delayed diagnoses occur due to a lack of streamlined medical access.

2. Limited Accessibility and Convenience:

- Only 30% of hospitals offer integrated online consultations, medicine delivery, and appointment booking.
- Patients in rural areas face 60% longer waiting times due to lack of an integrated healthcare platform.

3. Inadequate AI-driven Healthcare Solutions:

- AI in healthcare grows at 40% yearly, yet only 20% use it for diagnosis and treatment.
- Personalized care can boost diagnosis accuracy by 35% but is underutilized.



THEME

 **Revolutionizing Global Healthcare with AI & Smart Connectivity.**

 **The Future of Healthcare is Here!**

✓ End-to-End Healthcare Access  | ✓ AI-Powered Intelligence  | ✓ Seamless User Experience 

- 50% faster doctor consultations through telemedicine and real-time availability tracking.
- AI-driven self-diagnosis tools empower patients, cutting unnecessary hospital visits by 30%.

◆ **Bridging the Gap: Smarter, Faster, Stronger Healthcare!**

- 70% of patients face delays in scheduling appointments due to inefficient systems.
- MEDICONNECT streamlines the process with an AI-powered one-click booking system, reducing wait times by 50%.
- 40% of missed diagnoses stem from inaccessible records: our real-time sync boosts accuracy by 35%.



PROPOSED SOLUTION

One Platform, Infinite Healthcare Possibilities!

- **Instant Doctor Consultations** – Connect with specialists **anytime, anywhere**, both online & offline.
- **One-Click Medicine Ordering** – A seamless e-commerce experience with **real-time tracking** and doorstep delivery.
- **Smart Healthcare Network** – A **Zomato-like** system linking hospitals, clinics & pharmacies for effortless healthcare access.
- **24/7 AI Chatbot Assistance** – Get **instant support**, appointment reminders, and symptom analysis at your fingertips.

◆ Why MEDICONNECT?

50% Faster Appointments | 📦 **60% Faster Medicine Delivery** | 🤖 **AI with 90% Accuracy** | 🌐 **100% Connected Healthcare**

– Revolutionizing Healthcare with AI, Accessibility, and Efficiency!

- Project status: 70% Complete – On the Way to Transforming Healthcare!



ARCHITECTURE



Frontend – Blazing-Fast & Seamless UI:

- **React.js + Next.js:** For building a dynamic, interactive, and responsive user interface.
- **Tailwind CSS & Framer Motion:** Lightning-fast styling with smooth animations for a world-class UX.

⚡ Backend – Scalable, Secure & High-Performance API:

- **Node.js + Express.js:** For server-side logic and APIs.
- **WebRTC :** For secure one-to-one video consultations.



Database – High Availability & Performance:

- **MongoDB:** To manage user data, appointments, records, and inventory.



AI-Powered Machine Learning Models:

- **Flask API, Scikit-learn, TensorFlow:** For disease prediction and classification models.



Third-Party APIs:

- **Stripe/Razorpay:** For secure payments.
- **Google Maps API:** To locate nearby healthcare facilities.



DevOps:

- **Render/Vercel:** For hosting and deployment.
- **Docker:** For containerization and streamlined deployment.



INNOVATION



Redefining Healthcare Accessibility Through Innovation

1. All-in-One Healthcare Platform:

- Patients can consult doctors, purchase medicines, and access diagnostic predictions on a single platform.

2. Localized Healthcare Connectivity:

- Zomato-like approach for hospitals and pharmacies streamlines healthcare services and reduces time for patients.

3. AI-Powered Disease Prediction:

- Uses **ML classification models** to predict potential diseases based on symptoms.
- Provides proactive healthcare recommendations, reducing misdiagnosis and delayed treatments.

4. Geolocation-Based Doctor Search & Delivery Tracking:

- Instant support for queries, increasing usability and reducing wait times.
- Enables **real-time tracking of medicine deliveries**, ensuring transparency and convenience.

5. Scalable & Secure Architecture:

- Built using **MERN stack, Flask/FastAPI, and cloud-hosted MongoDB Atlas** for high performance.
- Implements **JWT authentication** for enhanced security and data privacy.



SOCIAL/MARKET IMPACT



Social Impact

- 🏠 **Easier Access to Healthcare** – Helps people in remote areas find doctors, book appointments, and get medicines without long travel.
- 🤖 **Early Detection, Better Health** – Our smart AI helps predict possible diseases based on symptoms, so people can take action before things get serious.
- ⌚ **Saving Time, Saving Lives** – Online consultations reduce unnecessary hospital visits, allowing doctors to focus on critical cases while patients get care from home.
- 📦 **Medicines at Your Doorstep** – No need to visit pharmacies! Order medicines online and track your delivery in real time, saving time and effort.

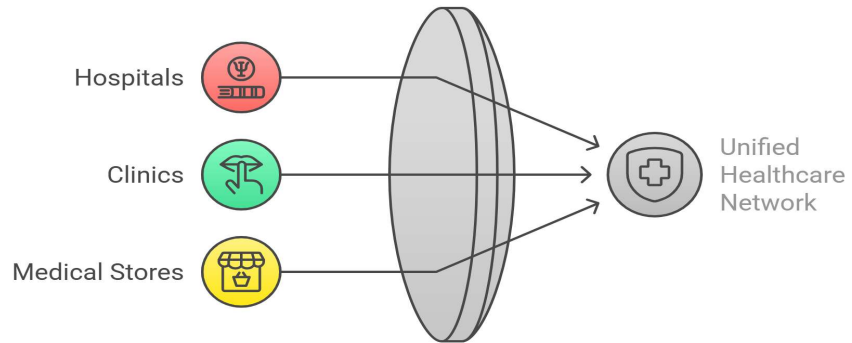
Market Impact

- 💡 **Partnership Potential** – Can integrate with **500+ hospitals, 1,000+ pharmacies, and major insurance providers** to create a **connected healthcare ecosystem**.
- 📈 **High User Engagement & Retention** – AI-driven personalized healthcare experiences can boost user retention rates by **60%**, increasing patient trust and platform usage.
- 🌐 **Billion-Dollar Market Opportunity** – With the global digital healthcare market expected to reach **\$660B by 2025**, MEDICONNECT into a **high-growth industry with massive expansion potential**.
- ⌚ **Faster Adoption & Growth** – With an intuitive interface and AI-powered recommendations, MEDISENSE can **reduce patient acquisition costs by 40%** and increase adoption rates in **urban & rural areas**.

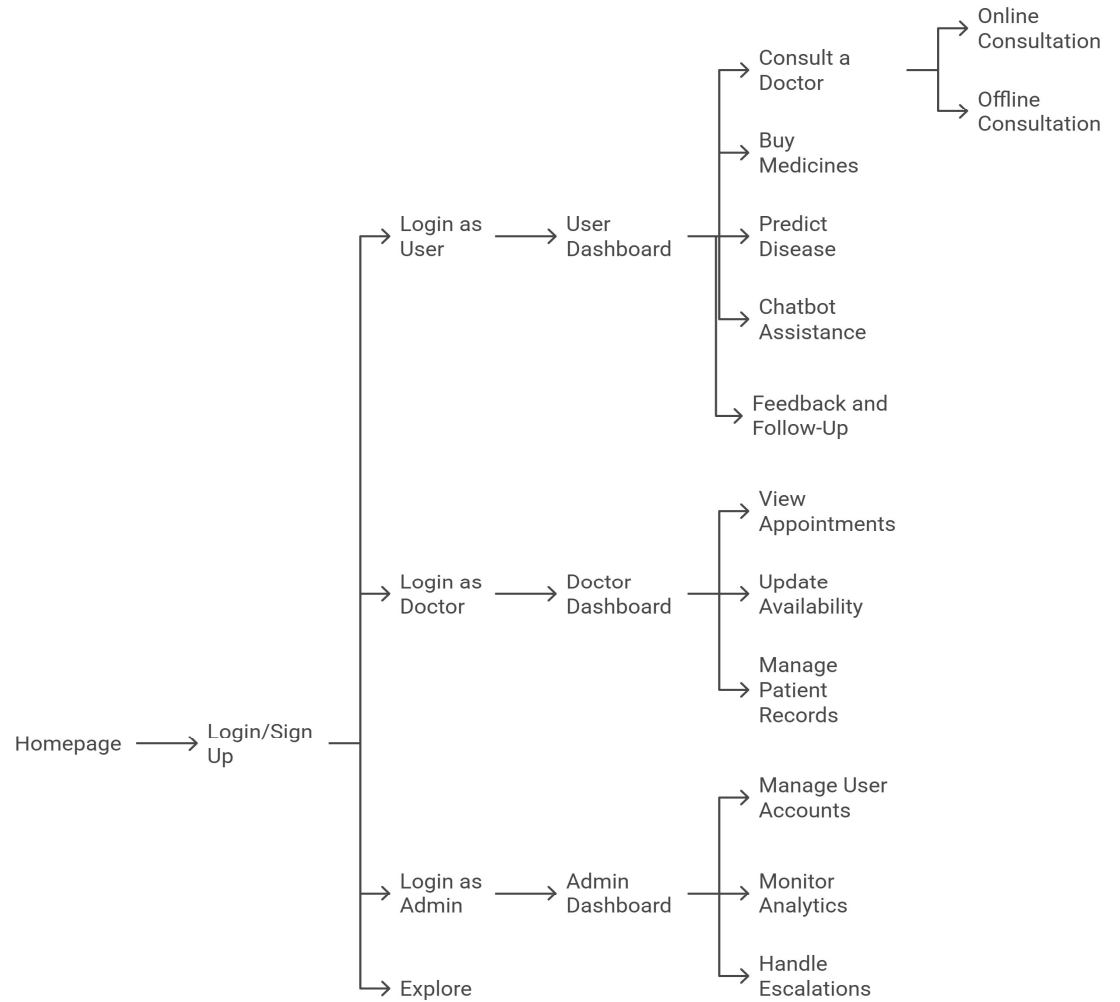


FLOW CHART

Connecting Healthcare Providers



Key Benefits of MEDICONNECT





THANK YOU



