



HackOrbit 2025

TEAM NAME :-

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THEME & PROBLEM STATEMENT

THEME:-Revolutionizing Emergency Healthcare with Intelligent, Real-Time Hospital Connectivity

PROBLEM STATEMENT :-

In India, thousands of patients die every year not because there's no treatment—but because they couldn't reach the right hospital on time, or worse, reached only to hear:

“No beds available.”

Families are left running from hospital to hospital, desperately searching for a place that can admit their loved ones. Imagine a mother carrying her injured child, or a son watching his father suffer a heart attack, while waiting at reception desks, filling out forms, or being turned away due to lack of resources.

This isn't just an inconvenience—this is a crisis.

The problem is not just about lack of infrastructure—it's about the lack of information, the lack of real-time updates, and the lack of a system that connects people to care when it matters most.

We are living in a digital age, yet the gap between patients and timely treatment continues to claim lives.

Our project aims to bridge that gap—to give time back to the people who need it most, and to bring order to the chaos of emergency healthcare. Because no one should lose a life just because they couldn't find help fast enough.

This isn't just a project. This is a mission to make every second count.

PROPOSED SOLUTION

To address inefficiencies and delays in traditional healthcare access, our proposed solution is a web-based platform that digitizes hospital-related services

1. Smart Doctor Booking

Benefit: Saves time by finding the right doctor quickly across hospitals.

Implementation:

- Smart Doctor Booking: Search and schedule appointments by hospital, specialization, and available slots.

2. Virtual Consultations (Google Meet)

Benefit: Enables remote treatment, especially helpful in rural or emergency cases.

Implementation:

- Virtual Consultations: Receive a Google Meet link via email for seamless online doctor visits.

3. Instant Ambulance Booking

Benefit: Reduces panic and delays in emergency transportation.

Implementation:

- Instant Ambulance Access: One-click booking opens phone dialer with pre-filled emergency number.

4. Emergency Bed Finder

Benefit: In life-threatening situations such as accidents or medical emergencies, timely hospital admission can save lives. Our platform addresses this by allowing users to reserve a hospital bed with just one click. It automatically detects the user's real-time location and collects basic injury details. Based on this input, the system instantly suggests nearby hospitals with bed availability. This not only speeds up the admission process but also reduces panic and eliminates the need for families to call multiple hospitals during emergencies.

Implementation:

- Emergency Bed Finder: Auto-detects location and user enter injury type to reserve nearby hospital beds instantly.

5. Disease & Medicine Search

Benefit: Provides basic health awareness and self-guidance.

Implementation:

- Users enter disease name; backend fetches related info and suggested medication and symptoms from preloaded database/API.

FLOWCHART / DIAGRAM



FLOWCHART / DIAGRAM

- **User Logs In / Signs Up:**

The journey begins with a secure login or registration by the patient or relative.

- **User Enters Location / Enables GPS:**

The system uses this to find nearby hospitals within reach.

- **User Searches Based on Emergency Type:**

The user selects the type of medical emergency (e.g., ICU, trauma, surgery, etc.).

- **System Fetches Real-Time Hospital Data:**

The backend queries connected hospitals and retrieves live info on:

- **Bed availability Doctor availability**

by department ,distance & estimated wait time.

- **System Displays a Sorted List of Hospitals:**

Hospitals are ranked based on proximity, availability, and urgency.

- **User Selects Hospital & Books a Bed Instantly:**

Booking request is sent to the selected hospital in real time.

- **Hospital Receives Notification & Prepares:**

The hospital admin panel updates with the new incoming patient details.

- **User Gets Confirmation + Live Directions:**

The user receives booking confirmation and a navigation link via map integration.

FEATURES AND NOVELTY

Key Features:

- **Emergency Hospital Bed Booking**
Enables patients or their families to instantly reserve hospital beds in real time during emergencies, avoiding panic and last-minute rush.
- **Call Emergency Vehicle**
One-click request for ambulance directly from the platform.
- **Patient History Storage**
Secure and centralized storage of patient medical history for future access and sharing with doctors.
- **Doctor Appointment Booking**
Schedule appointments with doctors — both online (teleconsultation) and offline (in-person) options available.

Novelty:

- Integrated bed and emergency booking — not commonly available on general healthcare platforms. Combines emergency handling, telemedicine, and records management in one unified system.
- Designed with a focus on real-time accessibility and simplicity for both patients and hospitals.

DRAWBACK AND SHOWSTOPPERS

1) Limited Accessibility in Low-Connectivity Areas :

The platform relies on an active internet connection to fetch real-time hospital data and enable bookings. In remote or rural areas with poor connectivity, users may face difficulty accessing these critical features during emergencies.

2). Limited Hospital Participation :

Challenge: The project assumes all hospitals will integrate with your platform and update their resources.

If only a few hospitals are connected, users might miss better options nearby that are not in the system.

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Thank
you