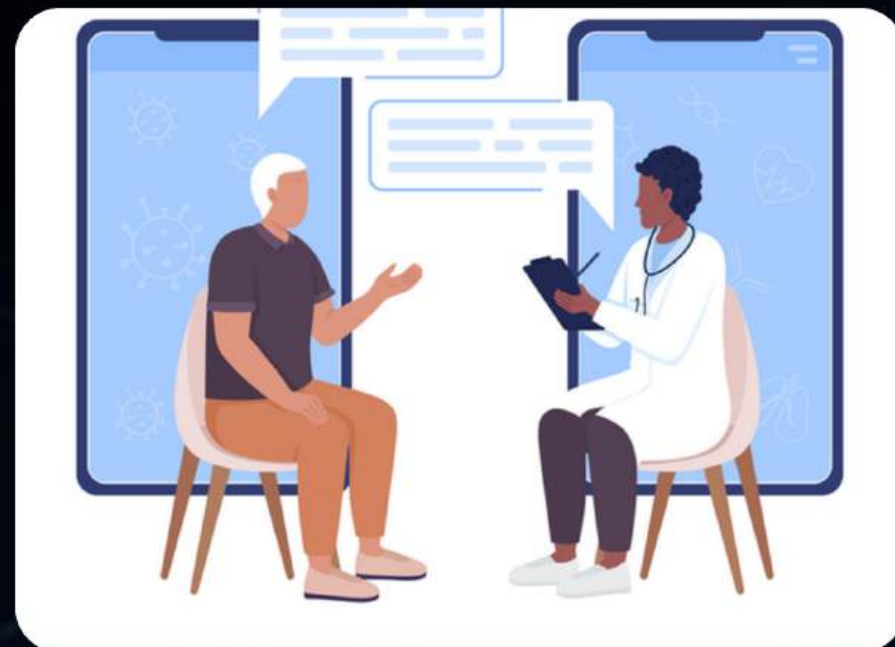


DOMAIN: HEALTHCARE

MEDCONNECT



TEAM NAME

FIVE BY CODE

PROBLEM STATEMENT



- Patients often face difficulties in managing and accessing their medical history, booking appointments, and communicating with hospitals efficiently.
- Hospitals lack comprehensive tools for seamless patient data management and communication, leading to miscommunication, missed appointments, and inefficient coordination of follow-ups, which impacts care quality and operations. A unified platform is needed to enhance patient engagement and streamline hospital processes.



SOLUTION



MedConnect offers a streamlined hospital-patient portal with integrated features such as:

- 01 | Medical record uploads (for both patients and hospitals)
- 02 | Hospitals can send reminders and follow-up alerts for the next visit
- 03 | AI-powered chatbot for queries and booking assistance
- 04 | GPay integration for payments during appointment booking
- 05 | Health status can be viewed as interactive graph for better tracking
- 06 | Secure messaging between doctors and patients
- 07 | Video call option, reducing the need for in-person visits.
- 08 | Comprehensive medical history tracking
- 09 | Patients can download their complete health history

SOLUTION



HOSPITAL

- **Efficient Data Management:** Centralized storage of patient records with secure access.
- **Automated Reminders:** Notifications for patient appointments and staff tasks.
- **Patient Insights:** AI-powered analytics for health and treatment trends.
- **Real-Time Communication:** Instant messaging and alerts for staff coordination.
- **Hospital Advertising:** Promote services and announce health events to the public.

DOCTOR

- **Patient Overview:** Access to detailed patient medical history and current health data.
- **Appointment Scheduling:** Manage appointments with automated scheduling and reminders.
- **Real-Time Consultation:** Virtual consultations with secure video/audio tools.
- **Prescription Management:** Electronically issue and manage prescriptions for patients.
- **Secure Messaging:** Encrypted communication with patients for quick consultations.

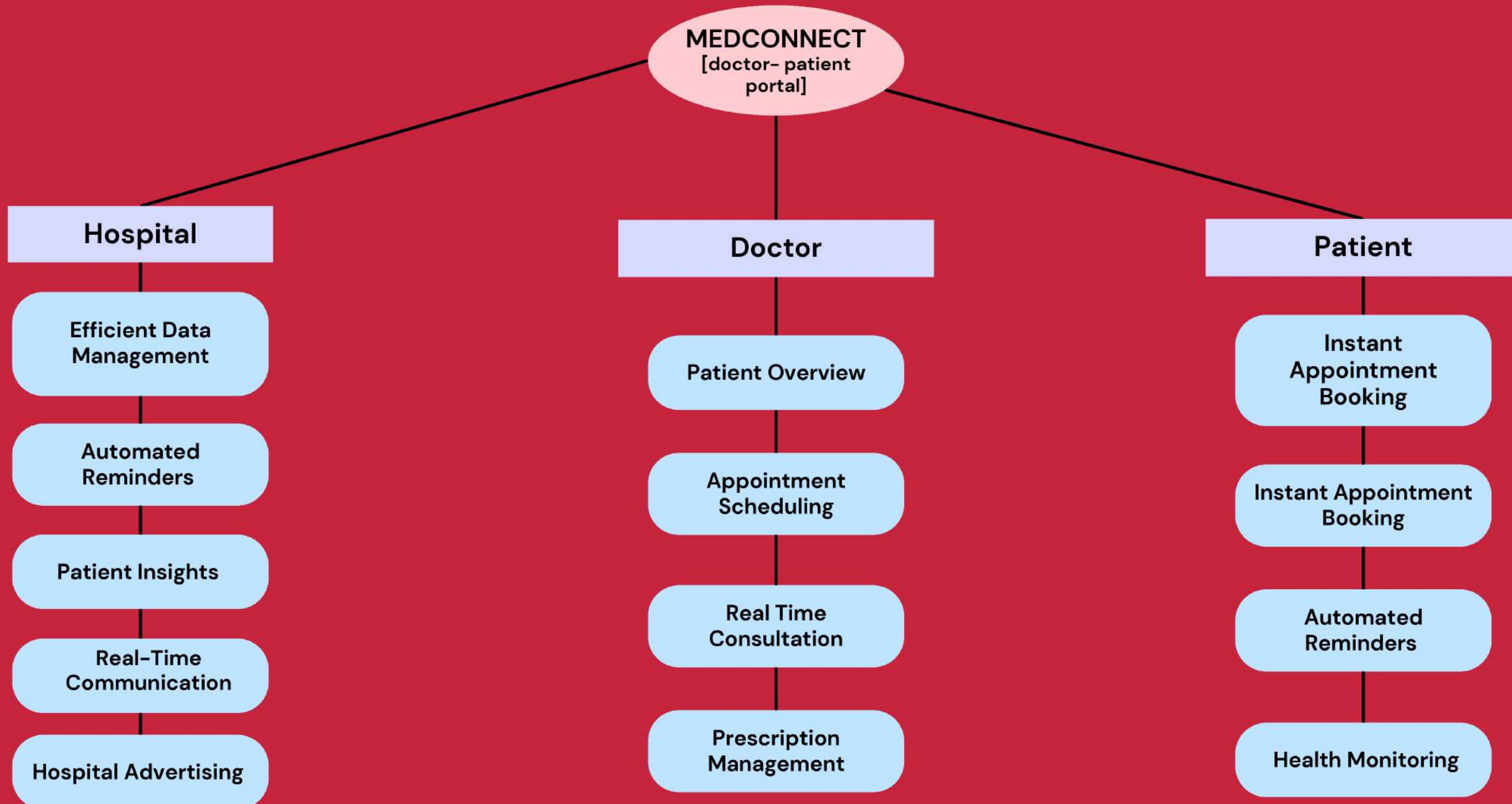
PATIENT

- **Access Medical History:** View, download, and share medical records securely.
- **Instant Appointment Booking:** Book appointments in real-time with available doctors.
- **Automated Reminders About Checkups:** Receive notifications for upcoming appointments.
- **Health Monitoring:** Track health metrics and vital signs through wearable devices.
- **Secure Communication:** Safely communicate with healthcare providers and share records.

Overview

Item	Unit	Value
Total profit of segment	1,334,879	\$1,209,000.540





DEPENDENCIES

Secure Storage (HIPAA Compliance):

The platform must ensure that all patient data is stored securely and complies with healthcare regulations like HIPAA. This involves encryption and proper data protection practices.

Third-Party Service Integrations:

Integration with external services like Google Pay for payment processing and Dialogflow for AI-powered chatbot features is essential.

Reliable Network Infrastructure:

Stable, high-speed internet is required for real-time video consultations between doctors and patients, ensuring smooth communication

User Authentication & Role Management:

A secure authentication system with role-based access (doctors, patients, administrators) must be implemented to protect sensitive medical information and manage permissions

SHOWSTOPPERS



Non-Compliance with Healthcare Regulations:

A secure authentication system with role-based access (doctors, patients, administrators) must be implemented to protect sensitive medical information and manage permissions

Third-Party Service Issues:

Any issues with the availability or functionality of integrated services (e.g., Google Pay or Dialogflow) could severely disrupt the platform's core features like payments or AI chat assistance.

High Initial Development Costs:

The cost of integrating advanced AI chatbot features and ensuring a secure infrastructure could be prohibitively high, causing delays or limiting functionality in the initial stages.

Network Instability for Video Consultations:

Unreliable internet connections could affect the quality of video consultations, which is a key feature of the platform, leading to poor user experiences.

TECH STACK

PEC
HACKS

Frontend

React.js for dynamic and responsive interfaces

Backend

Node.js for data handling and user management

Database

MongoDB for storing patient and hospital records

Cloud Storage

Google Cloud Storage for report storage

AI & Chatbot

Dialogflow for the chatbot

Payment Gateway

Google Pay integration for seamless appointment payments



Team Name: FIVE BY CODE

VARUN G	REC	CHENNAI	TEAM LEAD	MALE
SWETHA R	REC	CHENNAI	FE DEVELOPER	FEMALE
SNEHA SAJEEVAN	REC	CHENNAI	BE DEVELOPER	FEMALE
SWEDHA J	REC	CHENNAI	DESIGNER	FEMALE
YOGESH C V	REC	CHENNAI	PROJECT MANAGER	MALE