

# Optimizing Doctor Availability and Appointment Allocation in Hospitals through Information Technology and AI Integration.



Transform Yourself

## PROJECT MEMBERS:

<b>P JAYASWATI</b>	23ITR069
<b>M JEYASANJAY</b>	23ITR074
<b>M MYTHILI</b>	23ITR106

## PROJECT GUIDE

**Dr.S.VARADHAGANAPATHY**  
(Professor)  
Department of IT  
Kongu Engineering College



# Introduction

## Overview of Current Challenges

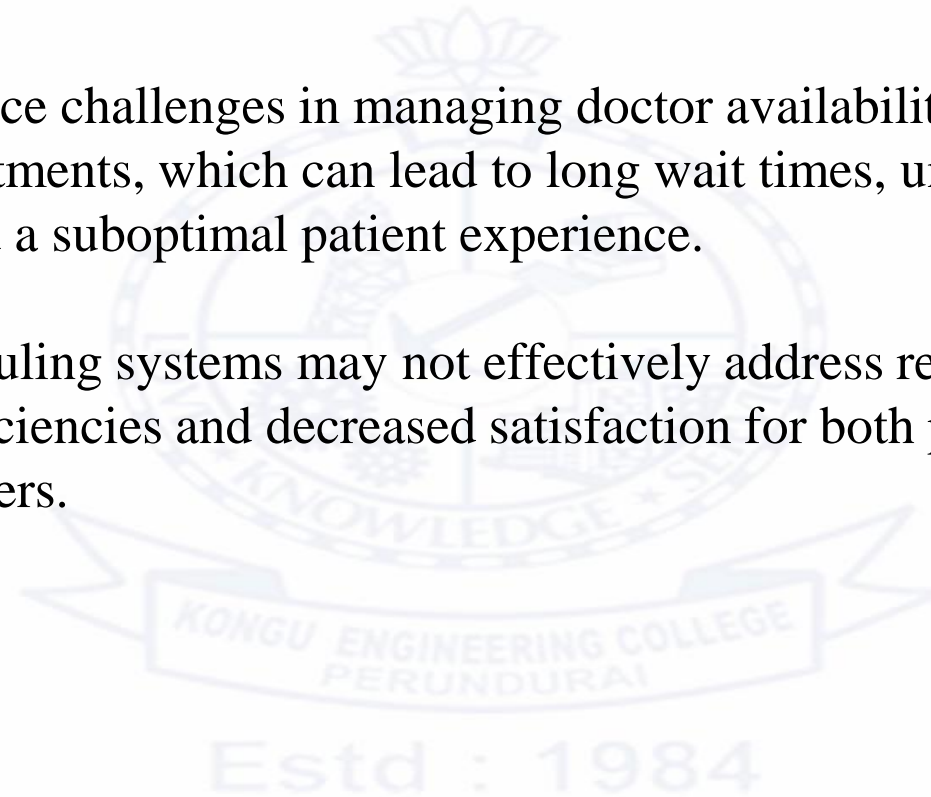
- Inefficient scheduling
- Long wait times
- Resource misallocation

## Importance of Optimization

- Improved patient care
- Increased efficiency
- Better resource management

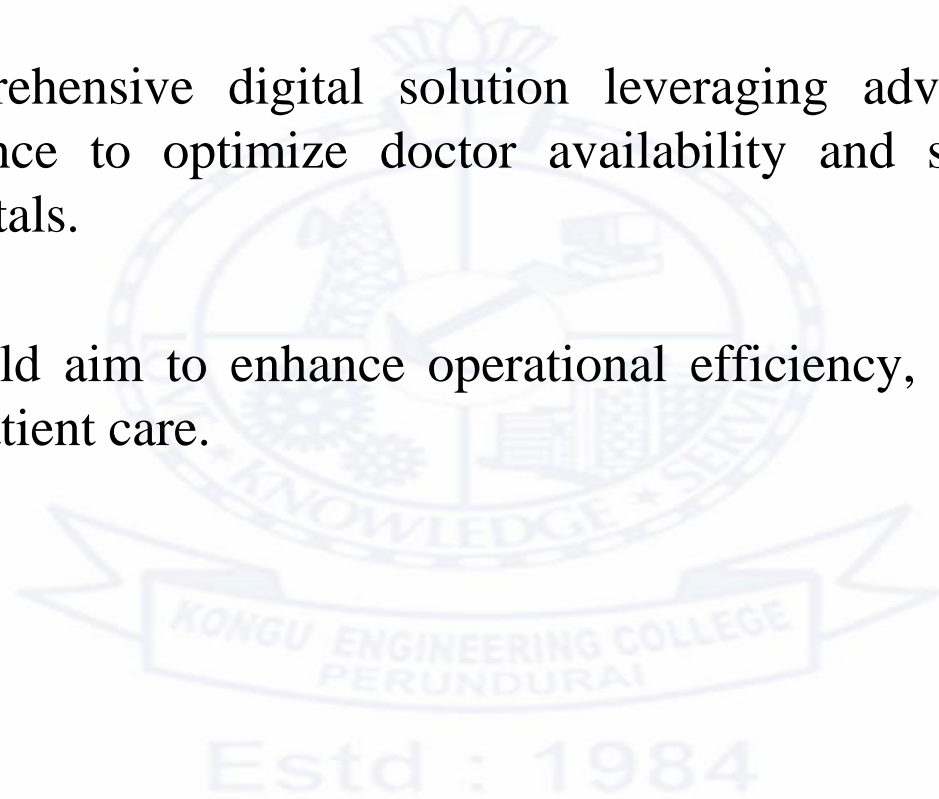
# Problem Description

- Hospitals often face challenges in managing doctor availability and efficiently allocating appointments, which can lead to long wait times, underutilization of medical staff, and a suboptimal patient experience.
- Traditional scheduling systems may not effectively address real-time changes, resulting in inefficiencies and decreased satisfaction for both patients and healthcare providers.

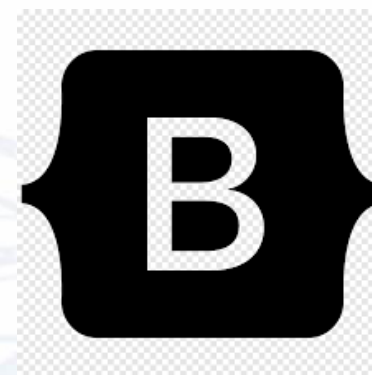


# Objectives

- Develop a comprehensive digital solution leveraging advanced technology and artificial intelligence to optimize doctor availability and streamline appointment allocation in hospitals.
- The solution should aim to enhance operational efficiency, reduce wait times, and improve overall patient care.



# Software / Hardware Tools used





# HOME PAGE

24 Hours Accident, Emergency & Ambulance Services..contact: +91-422-4323999, 95665 95665, 82201 88844



JM HOSPITAL



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Emergency

Call Us Now



Anesthesiology



Cardiothoracic & Vascular  
Surgery

Comprehensive care for  
dental and facial surgery,  
including trauma and  
cosmetic procedures.



Dermatology And  
Cosmetology

[https://encrypted-  
tbn0.gstatic](https://encrypted-tbn0.gstatic)



Emergency Medicine



Endocrinology



ENT, Head & Neck Surgery



Fetal Medicine



Neurology



Orthopedics



Pediatrics



Radiology

Emergency

Call Us Now

# BRANCH AVAILABLE

## Hospitals In India



Ahmedabad



New-Delhi



Bangalore



Bhubaneshwar



Chennai



Hyderabad



Mumbai



Assam

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Contact: +91-422-4323999

Address: 333(2), Ram Nagar, Chennai

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Emergency

Call Us Now



# AI CHATBOT

JM HOSPITAL About JM Hosp...

Time: 9:00 AM to 4:30 PM

2. Dr. Lora Smith

Age: 38

Experience: 15 years

Days: Monday to Friday

Time: 9:00 AM to 2:30 PM

If you would like to book an appointment or need more information, just let me know!

Dr. John Doe is a cardiologist at JM Hospital. He is 45 years old and has 20 years of experience in the field. He is available for consultations from Monday to Friday, between 9:00 AM and 4:30 PM. If you need assistance in booking an appointment or have any other questions, feel free to ask! I'm here to help!

JM Hospital is located at 333(2), Ram Nagar, Chennai. If you need any more information or assistance, feel free to ask! I'm here to help!

Message...

Powered By Chatbase.co

JM HOSPITAL About JM Hosp...

Hello, we are from jm hospital

how many doctors available in jm hospital

JM Hospital has over 50,000 doctors available to provide a wide range of medical services. If you have any specific inquiries about a particular specialty or doctor, feel free to ask! I'm here to help!

cardiologist available in jm hospital

Yes, JM Hospital has several cardiologists available. Here are a couple of them:

1. Dr. John Doe

Message...

Powered By Chatbase.co

who is john doe

location of jm hospital

# SPECIALIST



Cardiology

Neurology

Dermatology

Plastic Surgery

Dentistry

Vascular Surgery

Orthopaedics

Neurosurgery

General Service

Psychiatrist

Anesthesiologist

Pulmonologist

Pediatrician

Pathology

Otolaryngologist

Gynecologist

Immunologist

Surgeon

Urologist

Orthopaedist

## CARDIOLOGIST



**Dr. John Doe**

Age: 45  
Experience: 20 years  
Day: monday to friday  
Time: 9:00 am to 4:30 pm

[Book Appointment](#)



**Dr. Iora Smith**

Age: 38  
Experience: 15 years  
Day: monday to friday  
Time: 9:00 am to 2:30 pm

[Book Appointment](#)



**Dr. Emily Brown**

Age: 50  
Experience: 25 years  
Day: monday to friday  
Time: 10:00 am to 4:00 pm

[Book Appointment](#)

## NEUROLOGY



**Dr. dani**

Age: 55  
Experience: 25 years  
Day: monday to friday  
Time: 9:00 am to 4:30 pm

[Book Appointment](#)



**Dr. latty**

Age: 35  
Experience: 8 years  
Day: monday to friday  
Time: 9:00 am to 2:30 pm

[Book Appointment](#)



**Dr. emma**

Age: 50  
Experience: 20 years  
Day: monday to friday  
Time: 10:00 am to 4:00 pm

[Book Appointment](#)

## DERMATOLOGY



**Dr. reena**

Age: 37  
Experience: 10 years  
Day: monday to friday  
Time: 10:00 am to 2:30 pm

[Book Appointment](#)



**Dr. pattys**

Age: 35  
Experience: 5 years  
Day: monday to saturday  
Time: 11:00 am to 9:30 pm

[Book Appointment](#)



**Dr. warner**

Age: 50  
Experience: 20 years  
Day: friday to saturday  
Time: 10:00 am to 4:00 pm

[Book Appointment](#)

## PLASTIC SURGERY



**Dr. watson**

Age: 37  
Experience: 10 years  
Day: monday to friday  
Time: 10:00 am to 2:30 pm

[Book Appointment](#)



**Dr. keela**

Age: 35  
Experience: 5 years  
Day: monday to saturday  
Time: 11:00 am to 9:30 pm

[Book Appointment](#)







**Dr. helana**

Age: 50  
Experience: 20 years  
Day: friday to saturday  
Time: 10:00 am to 4:00 pm

[Book Appointment](#)


# REGISTRATION PAGE

JM HOSPITAL



Select State

▼



Register

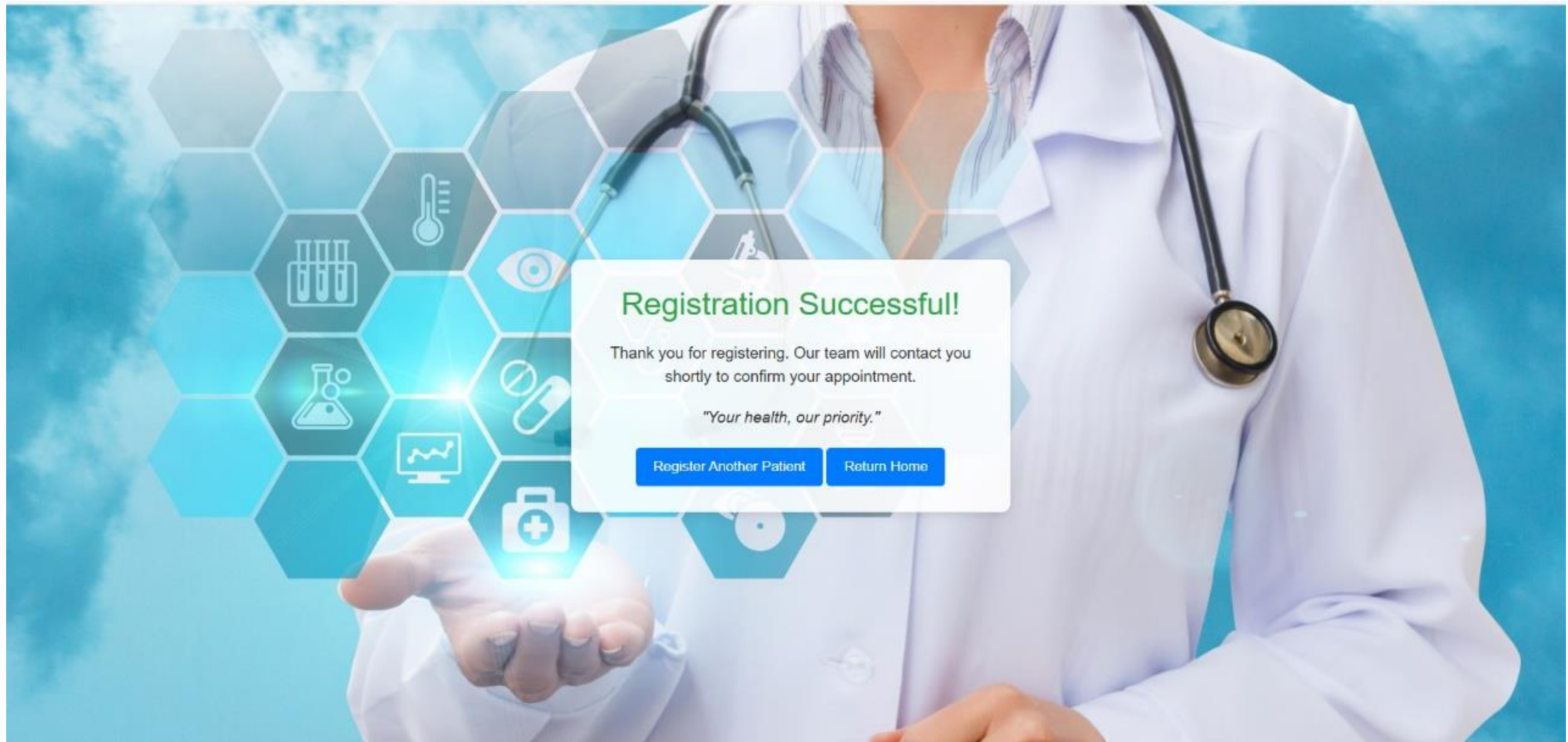
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Contact: +91-422-4323999

Address : 333(2), Ram Nagar, Chennai

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# DATABASE

localhost / 127.0.0.1 / jm\_medical JM Medical Center

localhost/phpmyadmin/index.php?route=/sql&pos=0&db=jm\_medical\_center&table=registration...

phpMyAdmin

Recent Favorites

- New
- claiminsurance
- information\_schema
- insurance\_db
- jm\_medical\_center
  - New
  - insurance\_customers
  - registrations\_info
- mysql
- performance\_schema
- phpmyadmin
- test

Server: 127.0.0.1 » Database: jm\_medical\_center » Table: registrations\_info

Browse Structure SQL Search Insert Export Import Privileges More

Showing rows 0 - 2 (3 total, Query took 0.0005 seconds.)

```
SELECT * FROM `registrations_info`
```

☐ Profiling [ Edit inline ] [ Edit ] [ Explain SQL ] [ Create PHP code ] [ Refresh ]

☐ Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

Extra options

				id	full_name	email	phone_number	address	city	state
<input type="checkbox"/>	Edit	Copy	Delete	5	JAYASWATI P	jayaswatip.23it@kongu.edu	9344876996	10/7 kuppagoundan valasu, alambadi post,kangayam v...	Tiruppur	State1
<input type="checkbox"/>	Edit	Copy	Delete	6	Mythili	mythilim.23it@kongu.edu	09025930150	Kangayam,Tirupur	Tiruppur	State1
<input type="checkbox"/>	Edit	Copy	Delete	7	Jeyasanjay M	jeyasanjaym.23it@kongu.edu	987665433	Pasumponnagar,sithode	erode	State1

☐ Check all | With selected: Edit Copy Delete Export

☐ Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

Console



# INSURANCE PAGE

Get the best medical insurance plans tailored for you! For assistance, call: +91-422-4323999, 95665 95665, 82201 88844



JM HOSPITAL INSURANCE



## Insurance Plans

Explore our comprehensive medical insurance plans:

- Individual Health Insurance
- Family Floater Plans
- Critical Illness Insurance
- Top-up Plans

Get started by contacting us!

Contact Us

## Claim Process

Follow these steps to file a medical insurance claim:

1. Notify us of your hospitalization.
2. Fill out the claim form accurately.
3. Submit all required documents.
4. Receive updates on your claim status.

Need assistance? Reach out to our support!

Claim

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Get the best medical insurance plans tailored for you! For assistance, call: +91-422-4323999, 95665 95665, 82201 88844

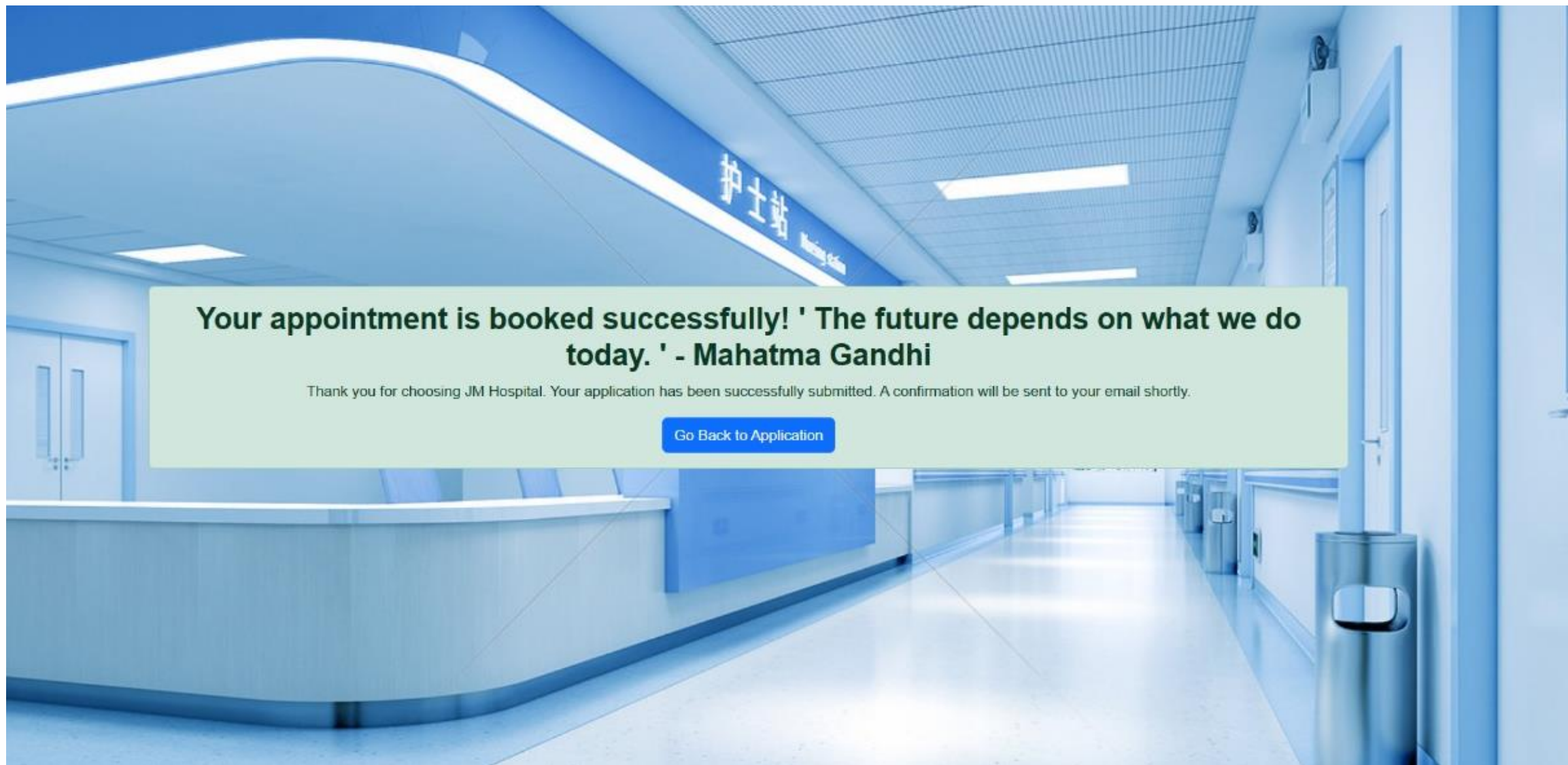


JM HOSPITAL INSURANCE

## Medical Insurance Application

Submit Application





**Your appointment is booked successfully! ' The future depends on what we do today. ' - Mahatma Gandhi**

Thank you for choosing JM Hospital. Your application has been successfully submitted. A confirmation will be sent to your email shortly.

[Go Back to Application](#)



localhost/phpmyadmin/index.php?route=/sql&pos=0&db=jm\_medical\_center&table=registrations\_info

Server: 127.0.0.1 » Database: jm\_medical\_center » Table: registrations\_info

Browse Structure SQL Search Insert Export Import Privileges Operations Triggers

Showing rows 0 - 3 (4 total, Query took 0.0003 seconds)

`SELECT * FROM `registrations_info``

Profiling [ Edit inline ] [ Edit ] [ Explain SQL ] [ Create PHP code ] [ Refresh ]

☐ Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

Extra options

		id	full_name	email	phone_number	address	city	state
<input type="checkbox"/>	Edit Copy Delete	1	JAYASWATI P	jayaswatip.23it@kongu.edu	09344876996	asdtg	asd	State1
<input type="checkbox"/>	Edit Copy Delete	2	JAYASWATI P	jayaswatip.23it@kongu.edu	09344876996	kangayam	tiruppur	Tamil Nadu
<input type="checkbox"/>	Edit Copy Delete	3	MYTHILI M	mythilim@gmail.com	1234567813	kangayam	tiruppur	Tamil Nadu
<input type="checkbox"/>	Edit Copy Delete	4	JEYASANJAY M	jeyasanjaym.23it@kongu.edu	1234567813	erode	erode	Tamil Nadu

☐ Check all | With selected: Edit Copy Delete Export

☐ Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

Query results operations

Print Copy to clipboard Export Display chart Create view

## Contact Information

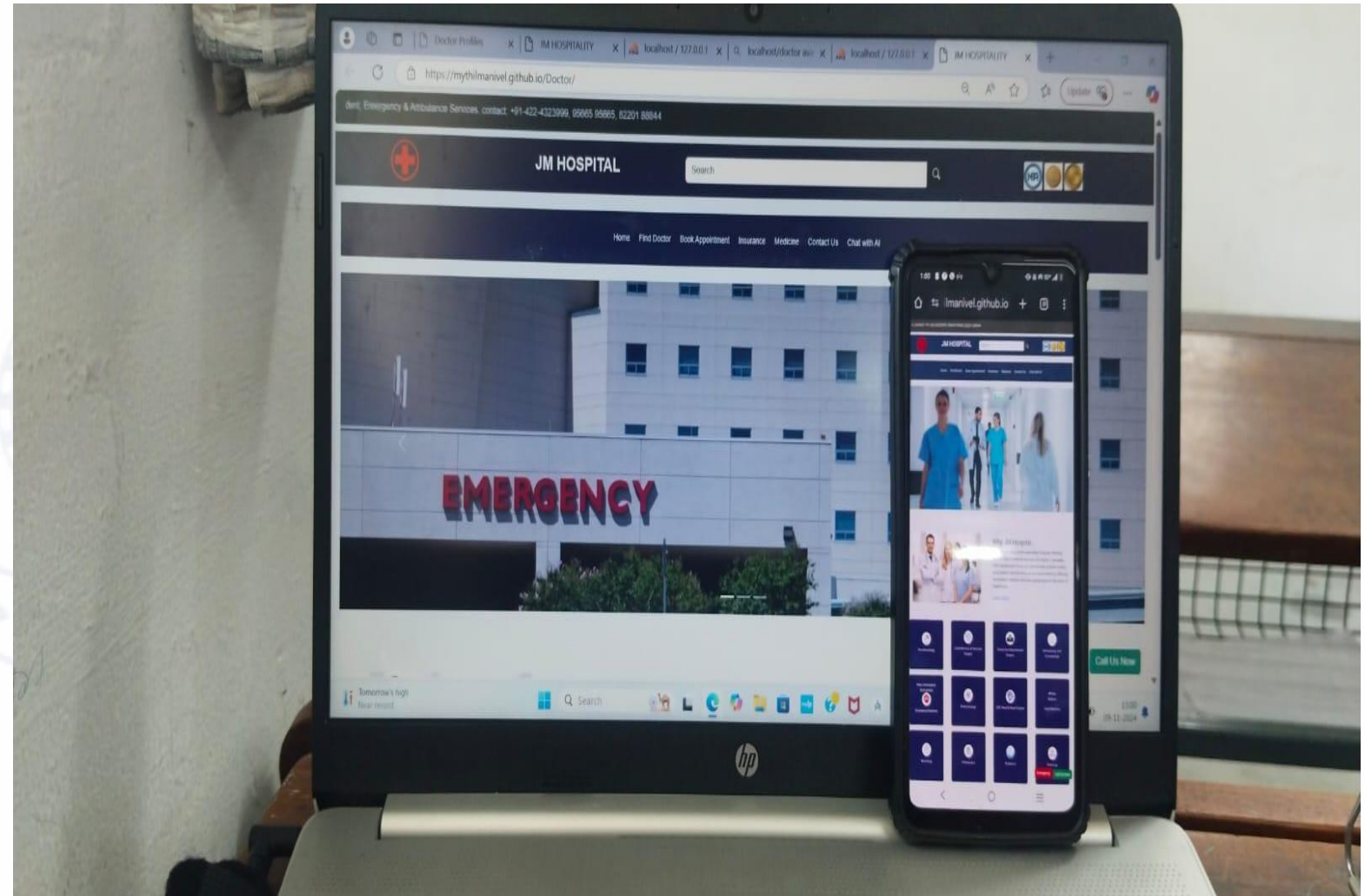
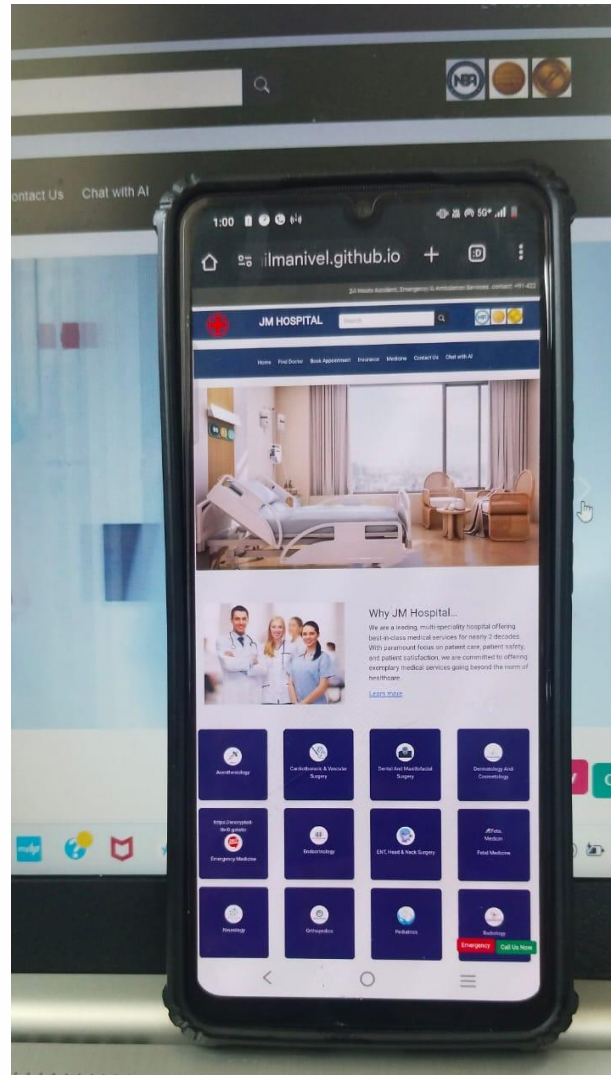
**Phone:** +1 234 567 890

**WhatsApp:** [Click to chat](#)

**Email:** [jmhospital@gmail.com](mailto:jmhospital@gmail.com)

**Address:** 123 Medical Lane, tirupur, India

# HOSTING



<http://php456gth788.infinityfreeapp.com>

<https://mythilmanivel.github.io/Doctor/>



The screenshot shows the GitHub web interface in a browser. The address bar displays the URL `github.com/MythilManivel/Doctor-Availability/settings/pages`. The page title is "MythilManivel / Doctor-Availability". The navigation bar includes links for Code, Issues, Pull requests, Actions, Projects, Wiki, Security, Insights, and Settings (which is currently selected). The left sidebar contains a list of settings categories: General, Access, Collaborators, Moderation options, Code and automation, Branches, Tags, Rules, Actions, Webhooks, and Environments. The main content area is titled "GitHub Pages" and contains the following information:

- A description: "GitHub Pages is designed to host your personal, organization, or project pages from a GitHub repository."
- A status box indicating the site is live at <https://mythilmanivel.github.io/Doctor-Availability/>, last deployed by MythilManivel 4 minutes ago. It includes a "Visit site" button and a menu icon.
- A section titled "Build and deployment" with a "Source" dropdown menu set to "Deploy from a branch".
- A "Branch" section, which is partially visible at the bottom.

The Windows taskbar at the bottom shows the time as 08:10 AM on 09-11-2024, along with various system icons and application shortcuts.



**Thank you!**

Estd : 1984