



DEPARTMENT OF INFORMATION TECHNOLOGY

V R SIDDHARTHA ENGINEERING COLLEGE



**Avantel Project**

**Health Care Management System**

Domain : Health Care

B.Tech in INFORMATION TECHNOLOGY  
MINI Project Review Presentation

Presented by :

RIZWANULLAH MD ( 208W1A1299 )

SRI SASHANK P ( 208W1A12B3 )

Under the guidance of

**M RAMESH Asst Prof**

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## AGENDA

- Problem Statement
- Objectives
- Outcomes
- Literature review
- Requirements of Project
- Architecture Diagram
- Implementation Steps
- Current Working Module
- Results
- Implementation Links
- References

## PROBLEM STATEMENT

To develop a **Web** and **Mobile** application that offers healthcare services. This platform will cater to patients, doctors, pharmacists, and lab operators etc.

## OBJECTIVES

### PHASE-1:

- Develop a web-based platform for the Health Care Management System.
- Ensure the platform is user-friendly and intuitive for all user categories: patients, doctors, pharmacists, and lab operators.

### PHASE-2:

- Extend the platform by creating a mobile application version for better accessibility.
- Optimize the mobile application for various screen sizes and devices.

### PHASE-3:

- Enhance security across both web and mobile platforms.
- Address and rectify the top vulnerabilities to ensure robust security.
- Implement TLS v1.2 for secure data transfer between the server and applications.
- Introduce user registration and logging features.

## OUTCOMES

- A versatile platform available as both a **Web** application and **Mobile** apps for **iOS** & **Android**.
- Users can seamlessly schedule and consult with doctors through **text**, **voice**, or **video** appointments.
- Doctors can efficiently manage their patients, and keep track of them easily.
- Patients have the convenience of booking lab tests and ordering prescribed medicines directly through the platform.
- The system features electronic prescriptions, making it straightforward for pharmacists to dispense the correct medicines.

## LITERATURE REVIEW

PROCTO	MY FAMILY DOCTOR	AVANTEL PROJECT
Virtual Consultation Available	Virtual Consultation Available	Virtual Consultation Available
Online Lab Tests Booking Available.	No Online Lab Tests	Online Lab Tests Booking Available.
Specialized Practitioners	General Purpose Practitioners	Specialized Practitioners
Multiple Countries	Only In India	Only For Hospital Patients
Online pharmacy	No Online pharmacy	Online pharmacy
Pay Per Service	Subscription Model	Pay Per Service
No Health Packages	Health Packages Available	Health Packages Available

## REQUIREMENTS OF PROJECT

### FRONT END



### BACK END



express



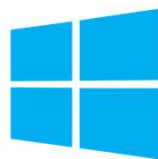
### SOFTWARE REQUIREMENTS



XCode



Android Studio



Windows



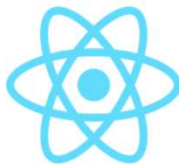
Kali Linux

### OS

### MOBILE APP REQUIREMENTS



VSCode



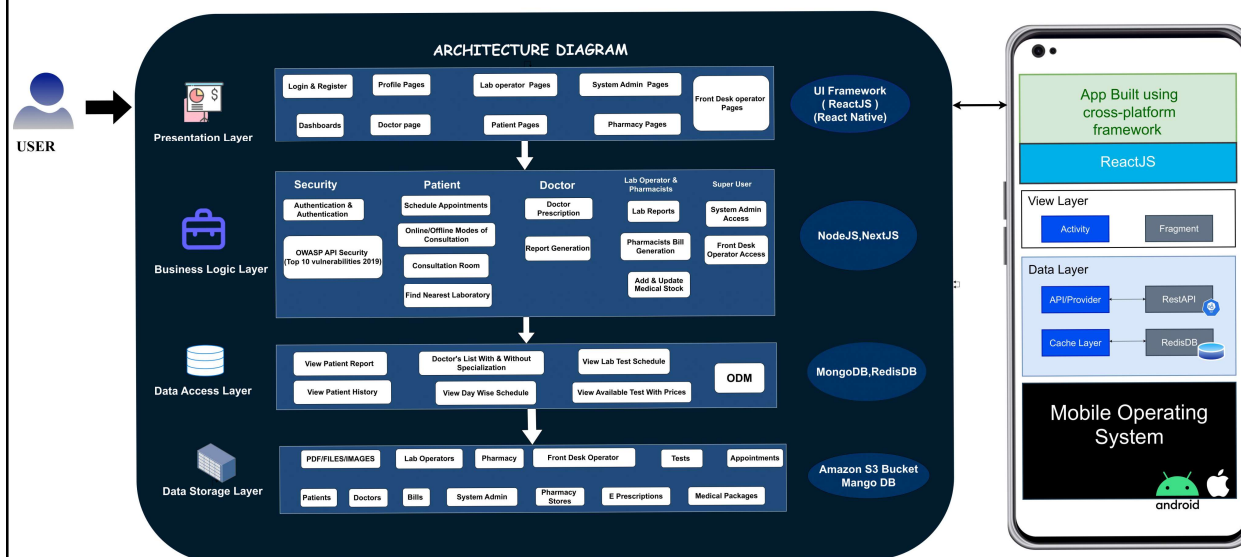
React Native

### STORAGE



AWS S3

## ARCHITECTURE DIAGRAM



## IMPLEMENTATION STEPS

- ✓ **Web App Interfaces:** Create pages for logging in and signing up. Separate registration for doctors, patients, system admins, and lab admins.
- ✓ **Dashboard Development:** Make dashboards for doctors, patients, system admins, and lab admins. Allow users to choose a doctor based on their symptoms or can just directly proceed with the specialist they need.
- ✓ **Scheduling System:** Users can book times to see doctors. Doctors can view their schedules on a calendar.
- ✓ **Consultation Methods:** Options for users to text, video call, or voice call doctors.
- ✓ **Prescription System:** Doctors can give e-prescriptions. Patients can view their health details and book lab tests.
- ✓ **System Features:** Add safety measures. Set up user sign-ups and log-ins.

## CURRENT WORKING MODULE

MODULE/FEATURE	DESCRIPTION
Current Working Module	Doctor
Authentication	Set up for verifying users.
Login & Registration	Pages for doctors to sign in and sign up.
Dashboard	Developing special dashboard designed for doctors.
Functions	Manage appointments , Connect with the patients and Give E-Prescription for consultation.

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## RESULTS OF PATIENT WEB

imeds

**My Health** ❤️

Please enter your mobile number

7416263730

☒ I agree to the [terms and conditions](#)

Submit

✓ OTP is sent to mobile number

**Verify your mobile number**

Enter OTP sent to +91 7416263730

Verify

Resend OTP in 28 seconds

## RESULTS OF PATIENT WEB

**imeds**

Home My Lab Tests My Consultations Logout Rizwanullah

Rizwanullah

**Find Doctor**

**Schedule lab test**

**Health Tracker**

**My Consultations**

**Rahamatullah's appointment**  
Dr. Rizwanullah Mohammad 11:10 13/10/2023  
[Join Video Call](#)

**Fazulunnisa's appointment**  
Dr. Rizwanullah Mohammad 10:30 13/10/2023  
[Join Video Call](#)

## RESULTS OF DOCTOR WEB

**imedsLife**

**Doctor's login**

Your mobile number

7416263730

[Send OTP](#)

**imedsLife**

Enter OTP

OTP sent sent to +91 7416263730 [Edit](#)

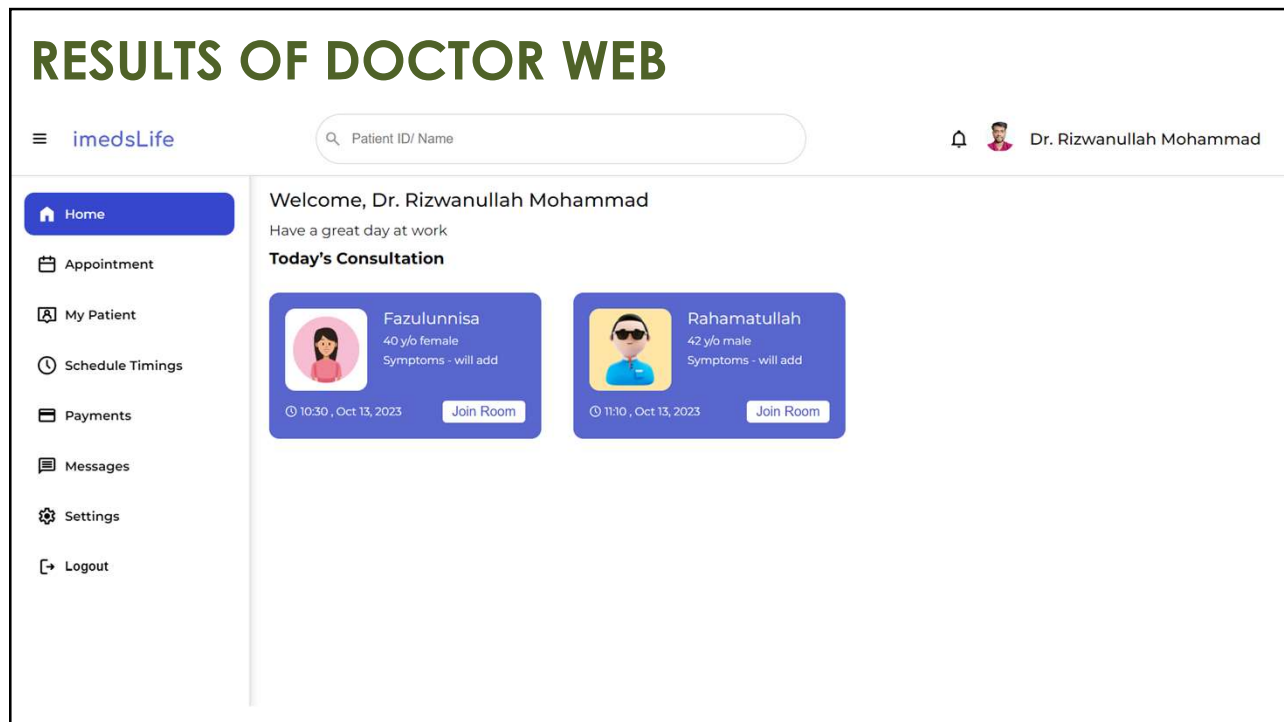
9 2 6 2

Resend OTP in 6 seconds

[Verify](#)

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## RESULTS OF DOCTOR WEB



## IMPLEMENTATION LINKS

**Patient Module Web :** <https://imedslife-patient.vercel.app/>

**Doctor Module Web :** <https://imedslife-doctor.vercel.app/>



## REFERENCES

- [1] <https://nextjs.org/>
- [2] <https://react.dev/>
- [3] <https://www.mongodb.com/>
- [4] <https://www.practo.com/>
- [5] <https://www.clickittech.com/devops/web-application-architecture/>
- [6] <https://soft-builder.com/bank-management-system-database-model/>

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# THANK YOU