

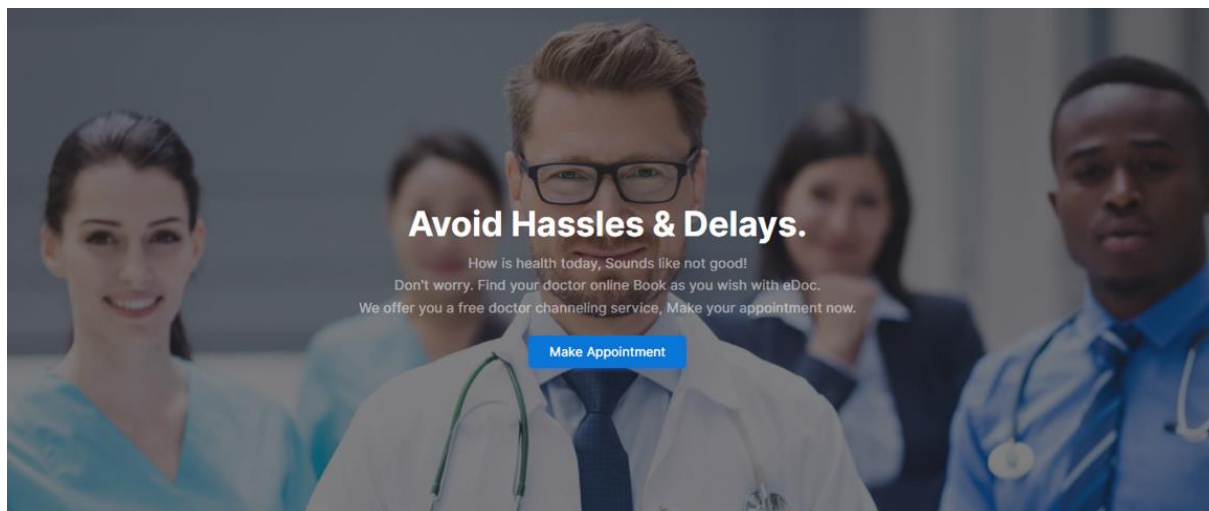
MERN STACK

DOCTER BOOKING APPOINTMENT APP

INTRODUCTION:

DOCTER BOOKING APP WHICH USED FOR BOOKING THE APPOINTMENT.

Booking a doctor's appointment has never been easier. With our convenient online platform, you can quickly and effortlessly schedule your appointments from the comfort of your own home. No more waiting on hold or playing phone tag with busy receptionists. Our user-friendly interface allows you to browse through a wide range of doctors and healthcare providers, making it simple to find the perfect match for your needs.



SCENARIOS:

User Registration: John, who needs to see a doctor for a routine check-up, visits the Book a Doctor app and signs up as a Customer. He provides his email and creates a password.

Browsing Doctors: Upon logging in, John is presented with a dashboard displaying a list of available doctors and healthcare providers.

He filters the list based on his preferences, such as specialty, location, or availability.

Booking an Appointment: John finds a suitable doctor and clicks on "Book Now." A form appears where he selects the desired appointment date and uploads any necessary documents, such as medical records or insurance information.

After submitting the form, John receives a confirmation message indicating that his appointment request has been received.

Appointment Confirmation: The doctor reviews John's appointment request and availability. Once confirmed, the appointment status changes to "scheduled."

John receives a notification confirming his appointment and providing details such as the date, time, and location.

Appointment Management: As the appointment approaches, John can view and manage his upcoming appointments in the booking history section of his dashboard.

He has the option to cancel or reschedule appointments if needed and can update the status accordingly.

Admin Approval (Background Process): In the background, the admin reviews new doctor registrations and approves legitimate applicants.

Approved doctors are then registered in the app and can start managing their appointments.

Platform Governance: The admin oversees the overall operation of the appointment booking system and ensures compliance with platform policies, terms of service, and privacy regulations.

The admin addresses any issues or disputes to maintain a smooth user experience.

Doctor's Appointment Management: Dr. Smith, an approved doctor on the platform, logs into his account and manages his appointments.

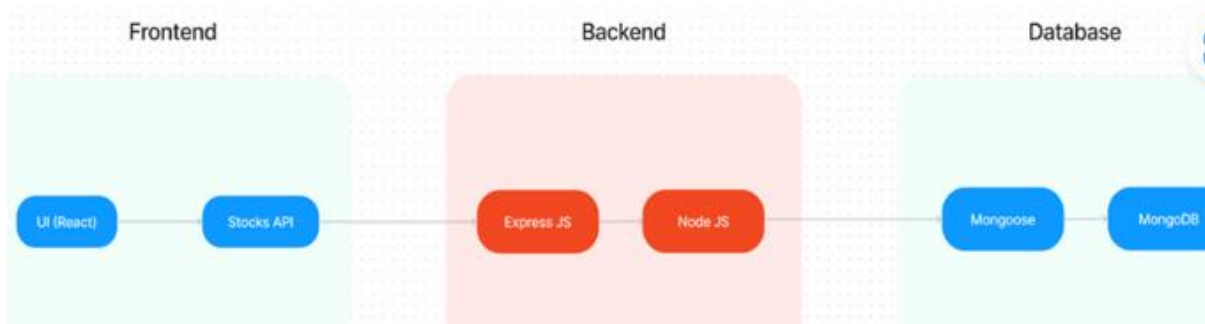
He views his schedule, confirms or reschedules appointments, and updates appointment statuses based on patient interactions.

Appointment Consultation: On the day of the appointment, John visits the doctor's office for his check-up.

Dr. Smith provides medical care and advice during the consultation, fulfilling John's healthcare needs.

Post-Appointment Follow-up: After the appointment, Dr. Smith updates John's medical records and may prescribe medication or recommend further treatment if necessary.

ARCHITECTURE:



Thus the architecture of the app provides the foundation concept of Making.

The technical architecture of our Book a Doctor app follows a client-server model, where the front end serves as the client and the back end acts as the server. The front end encompasses not only the user interface and presentation but also incorporates the Axios library to connect with the backend easily by using RESTful Apis.

FRONTEND

The front end utilizes the bootstrap and material UI library to establish a real-time and better UI experience for any user whether it is an admin, doctor, or ordinary user working on it.

For Front end: framework and Packages:

React

Material Ui

Bootstrap

Axios

Tailwind

BACKEND

On the backend side, we employ Express.js frameworks to handle the server-side logic and communication.

For the backend we are installing:

Node JS

Express Js

Moment

Bcrypt

multer

Postman

Dotenv

DATABASE

For data storage and retrieval, our backend relies on MongoDB. MongoDB allows for efficient and scalable storage of user data, including user profiles, for booking rooms, adding rooms, etc. It ensures reliable and quick access to the necessary information.

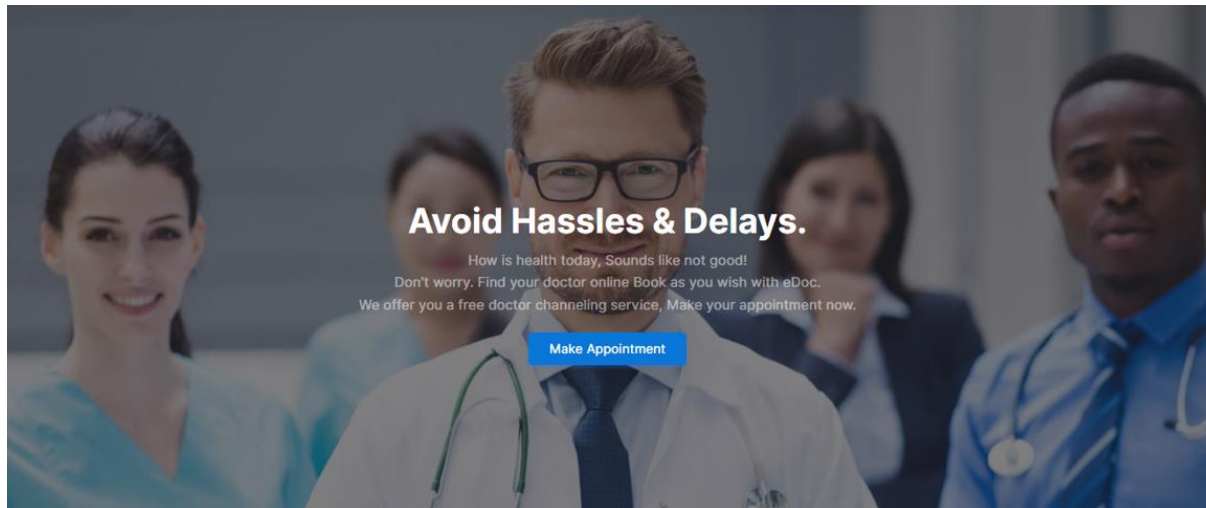
For the Data base:

Mongo DB

Mongoose

Screen of pages:

User Registration: John, who needs to see a doctor for a routine check-up, visits the Book a Doctor app and signs up as a Customer. He provides his email and creates a password.



Sign up to your account

Full name

Email

Password

Phone

☒ Admin ☐ User

[Register](#)

[Have an account? Login here](#)

Browsing Doctors: Upon logging in, John is presented with a dashboard displaying a list of available doctors and healthcare providers

Specialization: **Dentist**

Appointment Date and Time:

21-07-2023 14:02



Formatted Time: 7:02 PM

Documents

Choose File

No file chosen

Close

Book

He filters the list based on his preferences, such as specialty, location, or availability.

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All Appointments				
Date of Appointment	Phone	Document	Status	Action
2023-07-21 14:02	3265898745	fb048d1ac082002d2ab8e6d86de233eb	pending	<button>Approve</button>

Admin Approval (Background Process): In the background, the admin reviews new doctor registrations and approves legitimate applicants.

Approved doctors are then registered in the app and can start managing their appointments.

Platform Governance: The admin oversees the overall operation of the appointment booking system and ensures compliance with platform policies, terms of service, and privacy regulations.

The admin addresses any issues or disputes to maintain a smooth user experience.

Doctor's Appointment Management: Dr.jan, an approved doctor on the platform, logs into his account and manages his appointments.

He views his schedule, confirms or reschedules appointments, and updates appointment statuses based on patient interactions.

All Appointments for Admin Panel				
Appointment ID	User Name	Doctor Name	Date	Status
No Appointments to show				

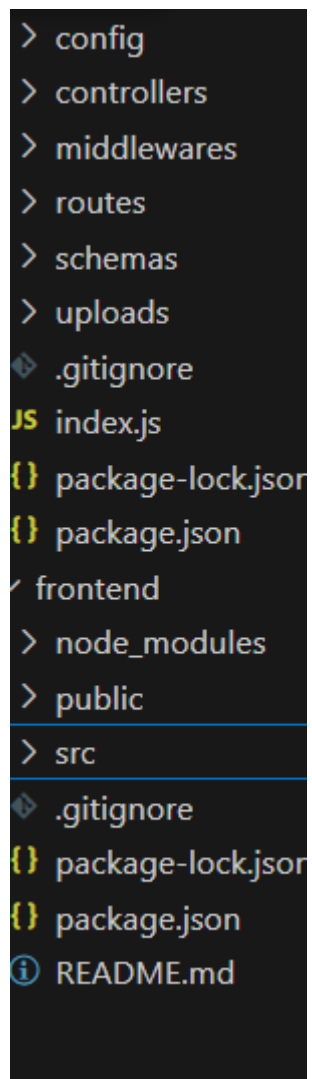
Appointment Consultation: On the day of the appointment, John visits the doctor's office for his check-up.

Dr. jan provides medical care and advice during the consultation, fulfilling John's healthcare needs.

All Appointments				
Date of Appointment	Phone	Document	Status	Action
2023-07-21 14:02	3265898745	fb048d1ac082002d2ab8e6d86de233eb	pending	<button>Approve</button>

Post-Appointment Follow-up: After the appointment, Dr. jan updates John's medical records and may prescribe medication or recommend further treatment if necessary.

CODE STRUCTURE:



Thus the Code Structure provide the details of the Project tree Which denotes:

CONCLUSION:

THUS THE DOCTOR BOOKING APP HAS CREATED WITH VARIOUS FACILITIES ON EACH LAYERS OF USAGE THAT FOR ADMIN USER DOCTERS . FROM APPROVAL TO APPOINTMENT THE DOCTOR BY ADMIN AND PLATFORM FOR RUNNING.