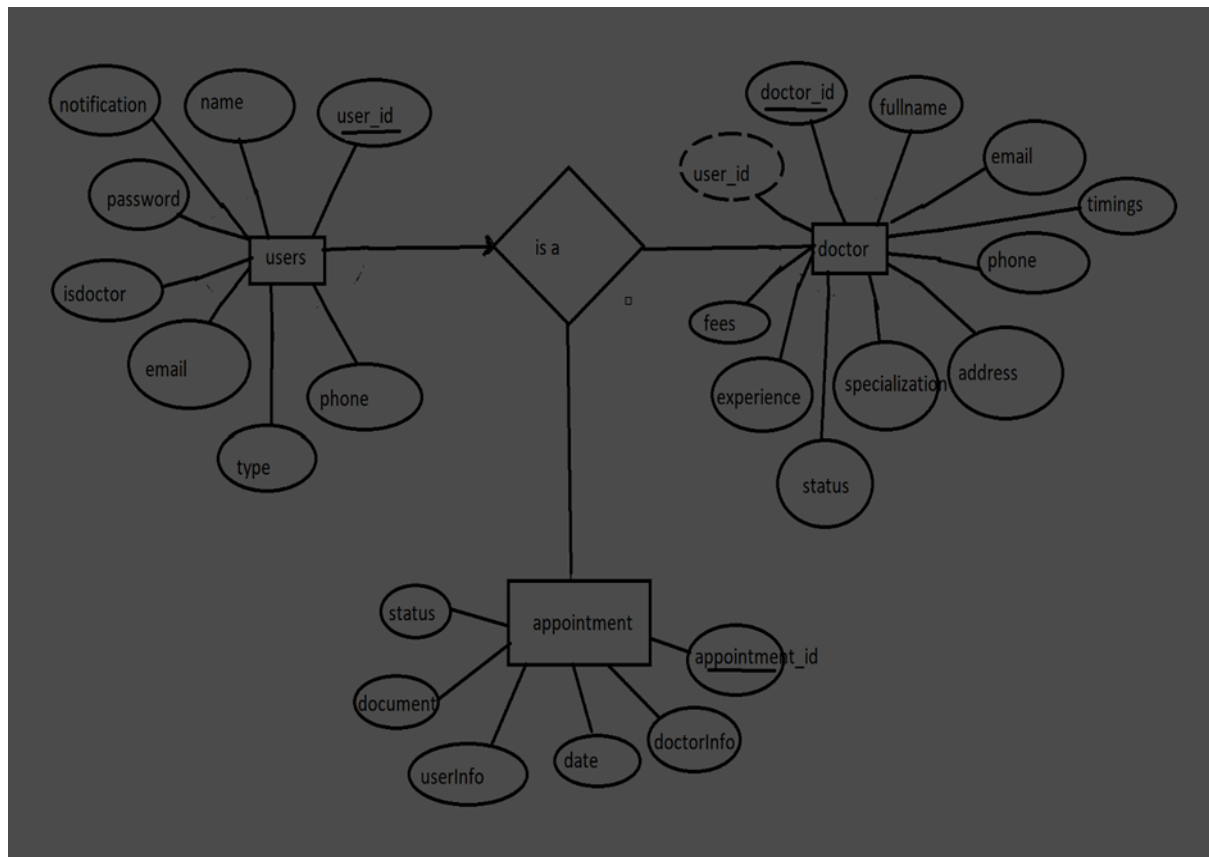


# ER Diagram

# DocSpot: Seamless Appointment Booking for Health



Here there is 3 collections namely users, doctors, and appointments which have their own fields in

## Users:

1. \_id: (MongoDB creates by unique default)
2. name
3. email
4. notification
5. password
6. isdoctor
7. type
8. phone

## Doctor:

1. userID: (can be act as foreign key )
2. \_id: (MongoDB creates by unique default)
3. fullname
4. email
5. timings
6. phone

## **DocSpot: Seamless Appointment Booking for Health**

7. address
8. specialization
9. status
10. experience
11. fees

### **Appointment**

1. \_id: (MongoDB creates by unique default)
2. doctorInfo
3. date
4. userInfo
5. document
6. status

# Prerequisites

## PRE-REQUISITES:

Here are the key prerequisites for developing a full-stack application using Node.js, Express.js, MongoDB, and React.js:

- **Node.js and npm:**

Node.js is a powerful JavaScript runtime environment that allows you to run JavaScript code on the server side. It provides a scalable and efficient platform for building network applications.

Install Node.js and npm on your development machine, as they are required to run JavaScript on the server side.

Download: <https://nodejs.org/en/download/>

Installation

instructions:

<https://nodejs.org/en/download/package-manager/>

```
npm init
```

- **Express.js:**

Express.js is a fast and minimalist web application framework for Node.js. It simplifies the process of creating robust APIs and web applications, offering features like routing, middleware support, and modular architecture.

Install Express.js, a web application framework for Node.js, which handles server-side routing, middleware, and API development.

Installation: Open your command prompt or terminal and run the following command:

```
npm install express
```

- **MongoDB:**

MongoDB is a flexible and scalable NoSQL database that stores data in a JSON-like format. It provides high performance, horizontal scalability, and seamless integration with Node.js, making it ideal for handling large amounts of structured and unstructured data.

Set up a MongoDB database to store your application's data.

Download: <https://www.mongodb.com/try/download/community>

Installation instructions: <https://docs.mongodb.com/manual/installation/>

- **Moment.js:**

Momentjs is a JavaScript package that makes it simple to parse, validate, manipulate, and display date/time in JavaScript. Moment.js allows you to display dates in a human-readable format based on your location. Install React.js, a JavaScript library for building user interfaces.

Follow the installation guide: <https://momentjs.com/>

- **React.js:**

React.js is a popular JavaScript library for building user interfaces. It enables developers to create interactive and reusable UI components, making it easier to build dynamic and responsive web applications.

Install React.js, a JavaScript library for building user interfaces.

Follow the installation guide: <https://reactjs.org/docs/create-a-new-react-app.html>

- **Antd:**

Ant Design is a React.js UI library that contains easy-to-use components that are useful for building interactive user interfaces. It is very easy to use as well as integrate. It is one of the smart options to design web applications using react.

Follow the installation guide: <https://ant.design/docs/react/introduce>

- **HTML, CSS, and JavaScript:** Basic knowledge of HTML for creating the structure of your app, CSS for styling, and JavaScript for client-side interactivity is essential.
- **Database Connectivity:** Use a MongoDB driver or an Object-Document Mapping (ODM) library like Mongoose to connect your Node.js server with the MongoDB database and perform CRUD (Create, Read, Update, Delete) operations. To Connect the Database with Node JS go through the below provided link:

<https://www.section.io/engineering-education/nodejs-mongoosejs-mongodb/>

- **Front-end Framework:** Utilize Reactjs to build the user-facing part of the application, including entering booking room, status of the booking, and user interfaces for the admin dashboard.

For making better UI we have also used some libraries like material UI and bootstrap.

**Install Dependencies:**

- **Navigate into the cloned repository directory:**

```
cd book-a-doctor
```

- **Install the required dependencies by running the following commands:**

```
cd frontend
```

```
npm install
```

```
cd ../backend
```

```
npm install
```

**Start the Development Server:**

- **To start the development server, execute the following command:**

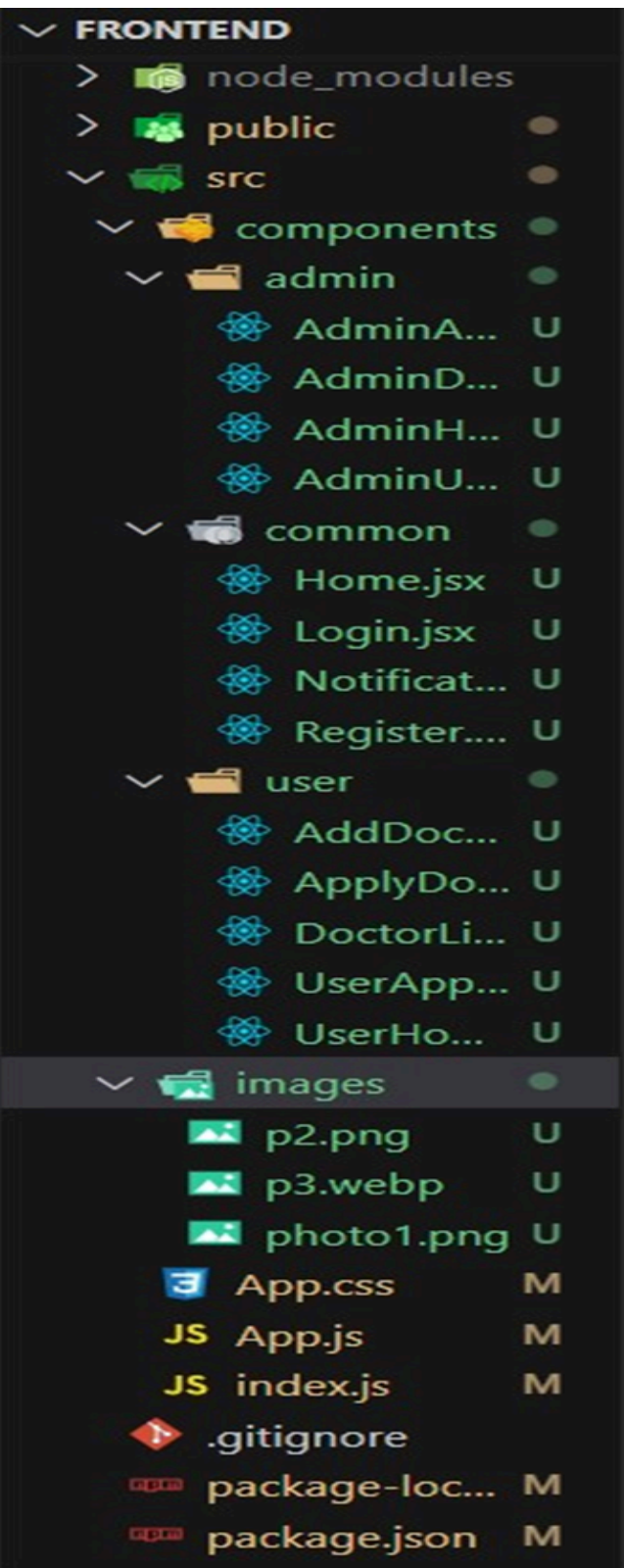
```
npm start
```

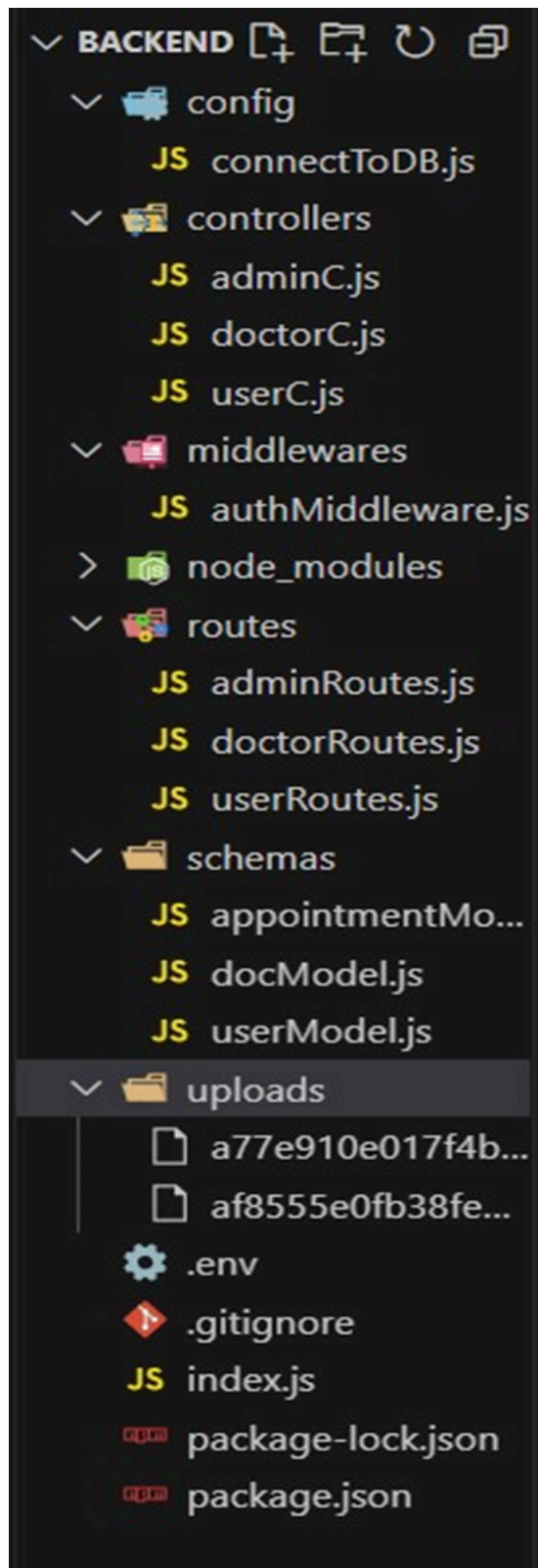
- The book a doctor app will be accessible at <http://localhost:3000>

You have successfully installed and set up the online complaint registration and management app on your local machine. You can now proceed with further customization, development, and testing.

# PROJECT STRUCTURE







The first image is of frontend part which is showing all the files and folders that have been used in UI development

The second image is of Backend part which is showing all the files and folders that have been used in backend development

**Application Flow:** The project has 2 type of user – Customer and Doctor and other will be Admin which takes care to all the user. The roles and responsibilities of these two types of users can be inferred from the API endpoints defined in the code. Here is a summary:

**Customer/Ordinary:**

1. Create an account and log in to the system using their email and password.
2. They will be shown automatically all the doctors in their dashboard.
3. After clicking on the Book Now, a form will generate in which date of appointment and documents need to send.
4. They can see the status of their appointment and can get a notification if the appointment is scheduled or not.
5. The user can also cancel its booking in booking history page and can change the status of booking.

**Admin:**

1. Manage and monitor the overall operation of the appointment and the type of users and doctors to the application.
2. He monitors the applicant of all doctors and approve them and then doctors are registered in the app.
3. Implement and enforce platform policies, terms of service, and privacy regulations.

**Doctor:**

1. Gets the approval from the admin for his doctor account.
2. Manages all the appointments that are getting from the users

# SETUP AND CONFIGURATION

## Folder setup

# Setup & configuration

Let's start with the project development with the help of the given activities

Folder setup

Duration: 1 Hrs

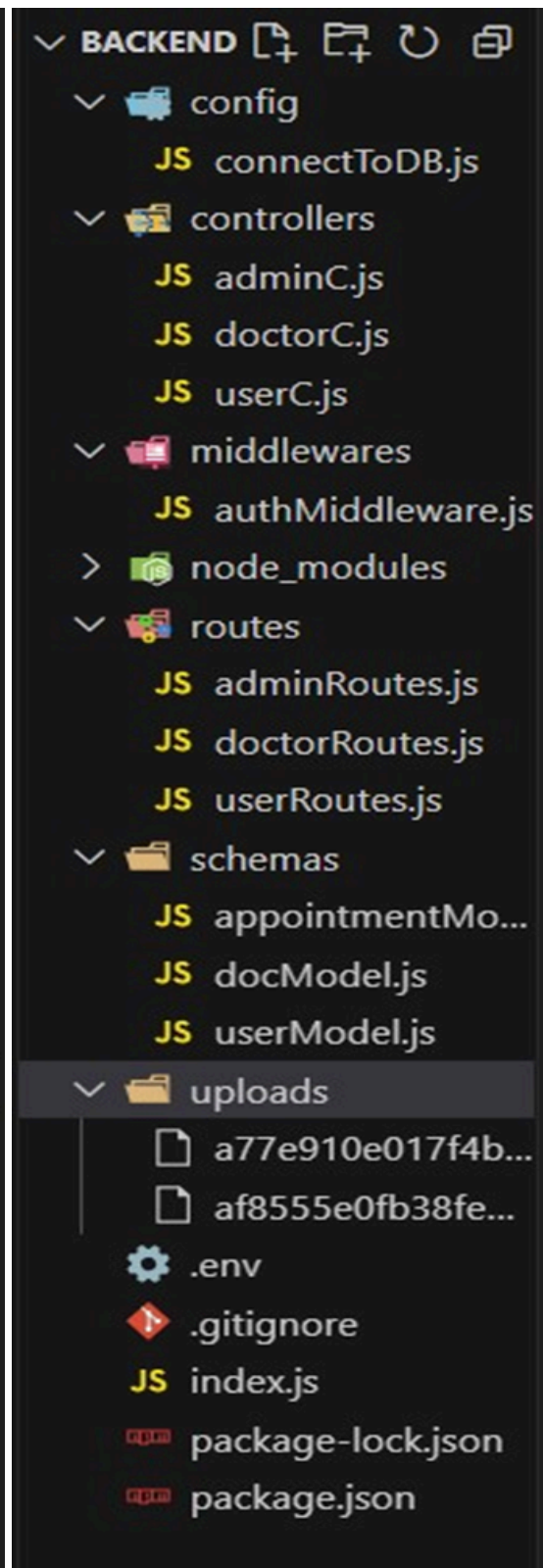
Skill Tags:

- **Folder setup:**
- 1. **Create frontend and**
- 2. **Backend folders**

. Open the backend folder to install necessary tools

For backend, we use:

- **cors**
- **bcryptjs**
- **express**
- **dotenv**
- **mongoose**
- **Multer**
- **Nodemon**
- **jsonwebtoken**



# BACKEND DEVELOPMENT Setup

## express server

# Backend Development

In this milestone explains about Backend Development

Duration: 1 Hrs

Skill Tags:

- **Setup express server**
  1. **Create index.js file in the server (backend folder).**
  2. **define port number, mongodb connection string and JWT key in env file to access it.**
  3. **Configure the server by adding cors, body-parser.**
  
- **Add authentication: for this,**
  1. **You need to make a middleware folder and in that make an authMiddleware.js file for the authentication of the projects and can use in.**

Ref: [link](#)



# DATABASE Configure MongoDB

# Database

In This Milestone Explains about Database

Duration: 1 Hrs

Skill Tags:

**Configure MongoDB**

- 1. Import mongoose.
    2. Add database connection from config.js file present in config folder
    3. Create a model folder to store all the DB schemas like renter, owner and booking, properties schemas.
- ref: [link](#)

# FRONTEND DEVELOPMENT

## Installation of tools

# Frontend Development

In this milestone explains about Frontend Development

Installation of required tools

Duration: 1 Hrs

Skill Tags:

- **Installation of required tools:**
  - **For frontend, we use:**
    1. **React**
    2. **Bootstrap**
    3. **Material UI**
    4. **Axios**
    5. **Antd**
    6. **mdb-react-ui-kit**

# PROJECT IMPLIMENTATION

# Project Implementation

In this milestone explains about project implementation

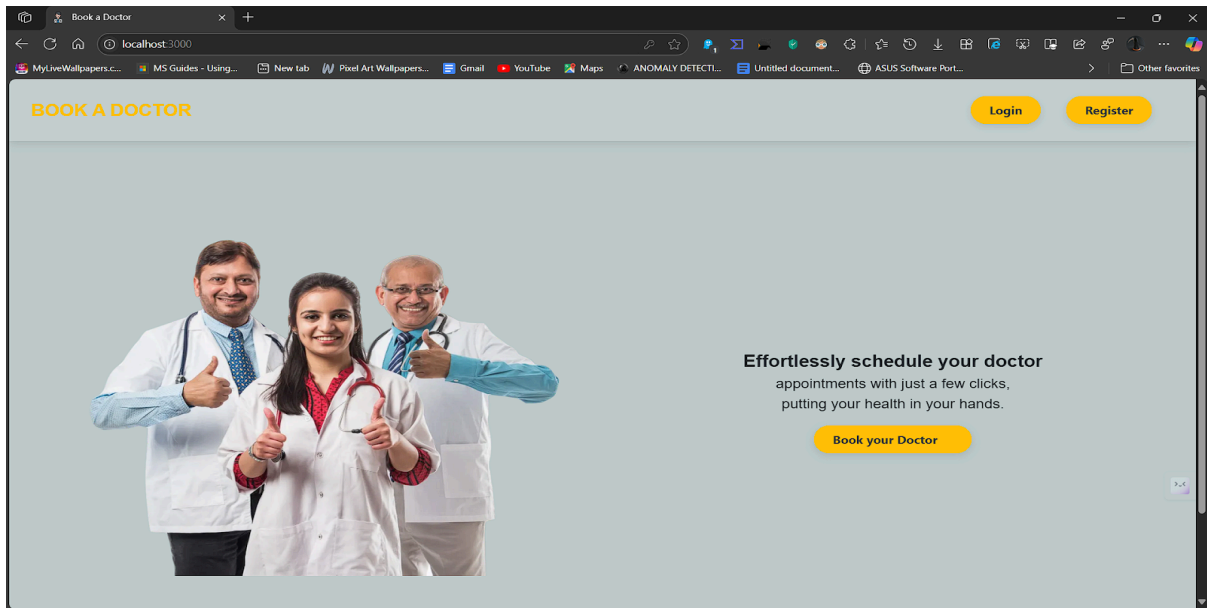
Landing page

**Duration: 1 Hrs**

**Skill Tags:**

**On completing the development part, we then run the application one last time to verify all the functionalities and look for any bugs in it. The application's user interface looks a bit like the one provided below.**

## **Landing page**





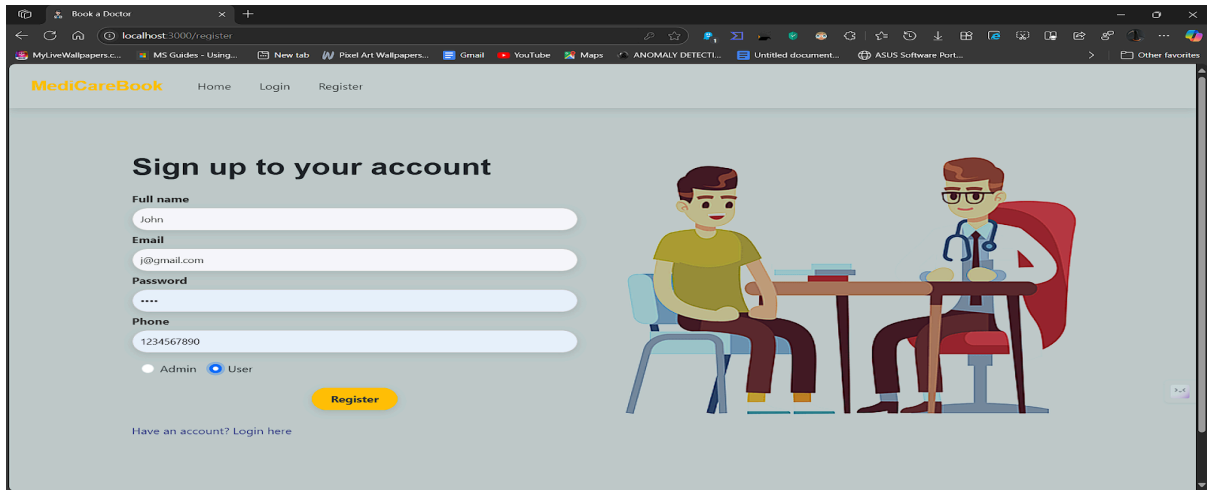
Register page

## Register page

Duration: 1 Hrs

Skill Tags:

Register page:



The screenshot shows a web browser window displaying the registration page of a website called "MediCareBook". The browser's address bar shows "localhost:3000/register". The page has a navigation bar with "Home", "Login", and "Register" links. The main heading is "Sign up to your account". Below this, there are input fields for "Full name" (containing "John"), "Email" (containing "j@gmail.com"), "Password" (containing "\*\*\*\*"), and "Phone" (containing "1234567890"). There are radio buttons for "Admin" and "User" (selected). A yellow "Register" button is at the bottom right of the form. To the right of the form is an illustration of a doctor in a white coat and stethoscope sitting at a desk with a patient. At the bottom left, there is a link: "Have an account? Login here".

Book a Doctor

localhost:3000/register

MyLiveWallpapers.c... MS Guides - Using... New tab Pixel Art Wallpapers... Gmail YouTube Maps ANOMALY DETECTI... Untitled document... ASUS Software Port... Other favorites

MediCareBook Home Login Register

### Sign up to your account

Full name  
John

Email  
j@gmail.com

Password  
\*\*\*\*

Phone  
1234567890

☐ Admin ☒ User

Register

Have an account? Login here

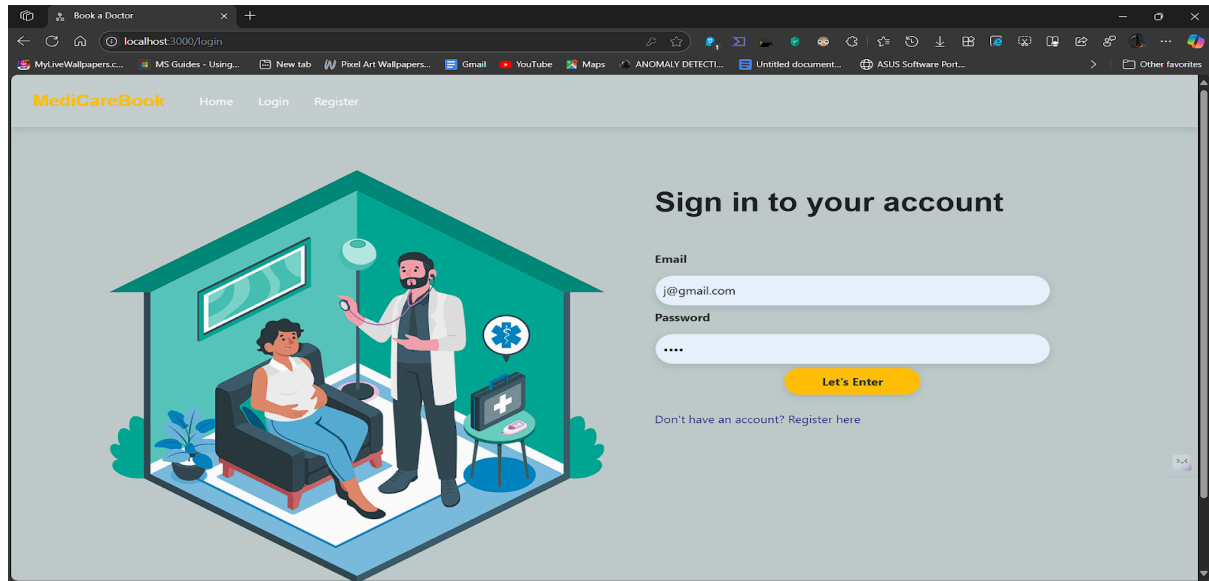
Login page

Login page

Duration: 1 Hrs

Skill Tags:

Login page:



# Admin Dashboard

Admin Dashboard

Duration: 1 Hrs

Skill Tags:

Admin Dashboard:

MediCareBook

Users

Doctor

Logout

Hi..Admin

All Appointments for Admin Panel

Appointment ID	User Name	Doctor Name	Date	Status
672f7a9b4c8952b18190cb7b	User	Koushick	2024-11-09 20:36	approved
672f7ce54c8952b18190cba5	User	Koushick	2024-11-09 20:46	approved
67303fb33ae507476ffb12d7	User	Koushick	2024-11-10 10:37	approved
6730423aaa10078f304cce6e	User	Koushick	Sun Nov 10 2024 10:48:00 GMT+0530 (India Standard Time)	approved
6730a3e26adc4e5cc1d89d4e	User	Koushick	Sun Nov 10 2024 17:45:00 GMT+0530 (India Standard Time)	approved
6730a3e36adc4e5cc1d89d52	User	Koushick	Sun Nov 10 2024 17:45:00 GMT+0530 (India Standard Time)	approved
6730a73a6adc4e5cc1d89db3	User	Koushick	Sun Nov 10 2024 17:59:00 GMT+0530 (India Standard Time)	approved

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# Doctor dashboard

Doctor dashboard

Duration: 1 Hrs

Skill Tags:

Doctor dashboard:

Book A Doctor

📅 Appointments

👤 Apply doctor

🚪 Logout

User

🟢 Doctor Registration request sent successfully

Apply for Doctor

Personal Details:

\* Full Name: SHIVA

\* Phone: 91755584121

\* Email: user@gamil.com

\* Address: chennnai

Professional Details:

\* Specialization: Blood

\* Experience: 2

\* Fees: 5001

\* Timings: 06:00 → 12:00 ⌚

Submit

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Admin

approve

doctor:

MediCareBook

👤 Users

👨 Doctor

🚪 Logout

Hi..Admin

🟢 Successfully updated approve status of the doctor!

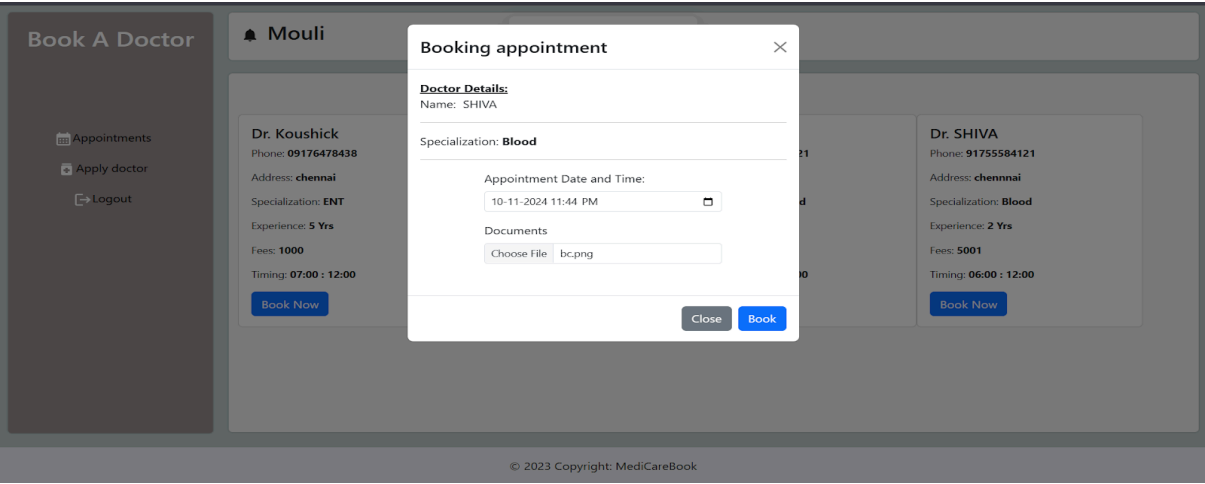
All Doctors

Key	Name	Email	Phone	Action
672f7a384c8952b18190cb60	Koushick	k@gmail.com	09176478438	Reject
67307e8992cf412edd7f29f1	Karthick	Ka@gmail.com	09176478438	Reject
6730f7955b6839a24169d7a3	SHIVA	user@gamil.com	91755584121	Approve
6730f79e5b6839a24169d7a7	SHIVA	user@gamil.com	91755584121	Approve

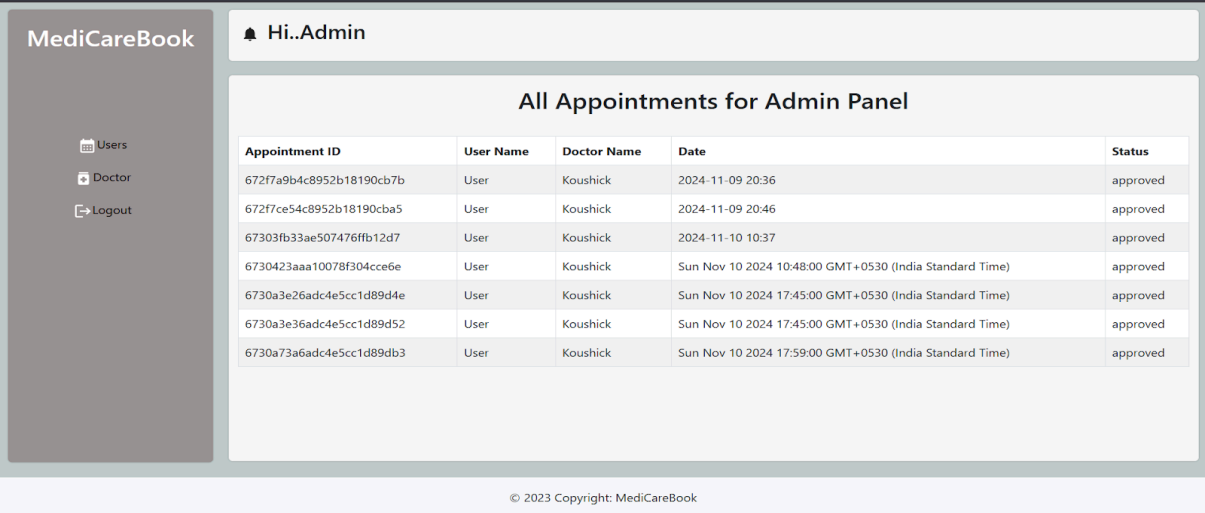
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BOOK DOCTOR :





ALL HISTORY :



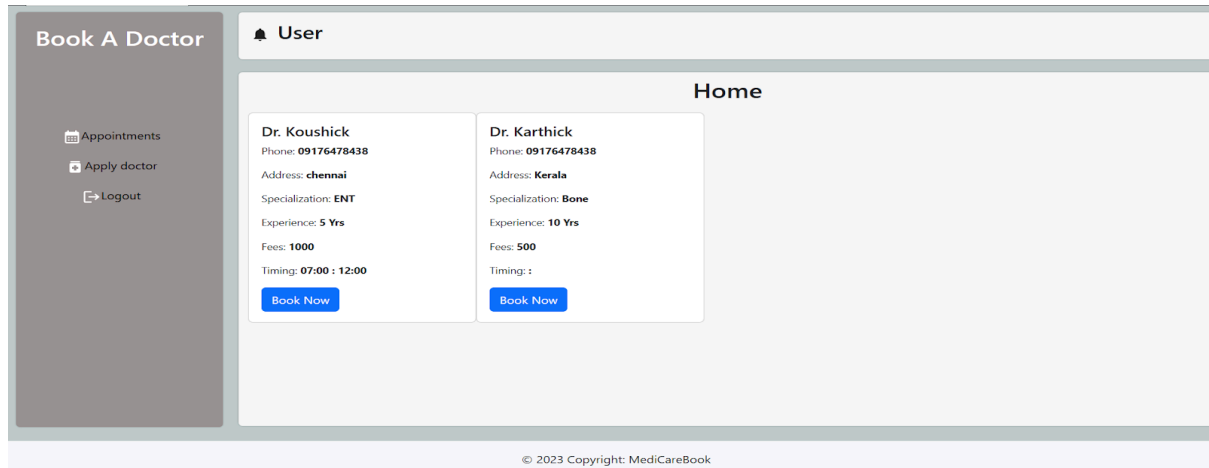
# User dashboard

## User dashboard

Duration: 1 Hrs

Skill Tags:

## User dashboard:



**Note:** For code drive, click on [link](#) and demo link, click on [link](#)

Project FlowDemo Video and  
reference code link

# Project FlowDemo Video and reference code link

**reference video link:**

- <https://drive.google.com/drive/folders/1pteT8STdObONWwELNDHRK9biLtLuiJ-1?usp=sharing>

**reference code link:**

[Doctor Appointment Booking Using MERN Source Code](#)