# DocSpot:

## 🩺 Full Stack Development with MERN

### 📄 Project Documentation - DocSpot

### 1. Introduction

- **Project Title**: *DocSpot - Seamless Appointment Booking for Health*
- **Team Members**:
  - Anushya Kadali
  - Ashoksrinivassivakiran Gangalakurthi
  - Hema Satya Nikhil Ainavilli

### 2. Project Overview

- **Purpose**:
  DocSpot simplifies the process of booking appointments with healthcare professionals. It enables users to find doctors, schedule appointments, and conduct teleconsultations online.
- **Features**:
  - Doctor and Patient Login
  - Real-Time Appointment Booking
  - Teleconsultation (Video)
  - Admin Dashboard
  - Notifications & Reminders
  - Doctor Availability Management

#### 3. Architecture

- **Frontend**:
  Built with React.js, React Router for navigation, Axios for API requests, and Tailwind CSS for styling.
- **Backend**:
  Node.js with Express.js for REST APIs. JSON Web Tokens (JWT) for authentication and authorization.
- **Database**:
  MongoDB is used for storing user data, appointment schedules, and doctor profiles. Mongoose is used for schema design and queries.

### 4. Setup Instructions

- **Prerequisites**:
  - Node.js >= 14
  - MongoDB
  - Git

- **Installation**:
- git clone https://github.com/Nikhil-193/DOCSPOT-DOCTOR_APPOINTMENT-NIKHIL.git
- cd DOCSPOT-DOCTOR_APPOINTMENT-NIKHIL
- cd client
- npm install
- cd ../server
- npm install
- Create a .env file in the server directory with:
- PORT=5000
- MONGO_URI=your_mongodb_connection_string
- JWT_SECRET=your_jwt_secret

### 5. Folder Structure

- **Client** (React):
- /client
- ├── public/
- ├── src/
- │ ├── components/
- │ ├── pages/
- │ ├── context/
- │ ├── App.js
- │ └── index.js
- **Server** (Node.js):
- /server
- ├── controllers/
- ├── models/
- ├── routes/
- ├── middleware/
- ├── config/
- ├── server.js

### 6. Running the Application

# Frontend

cd client

npm start

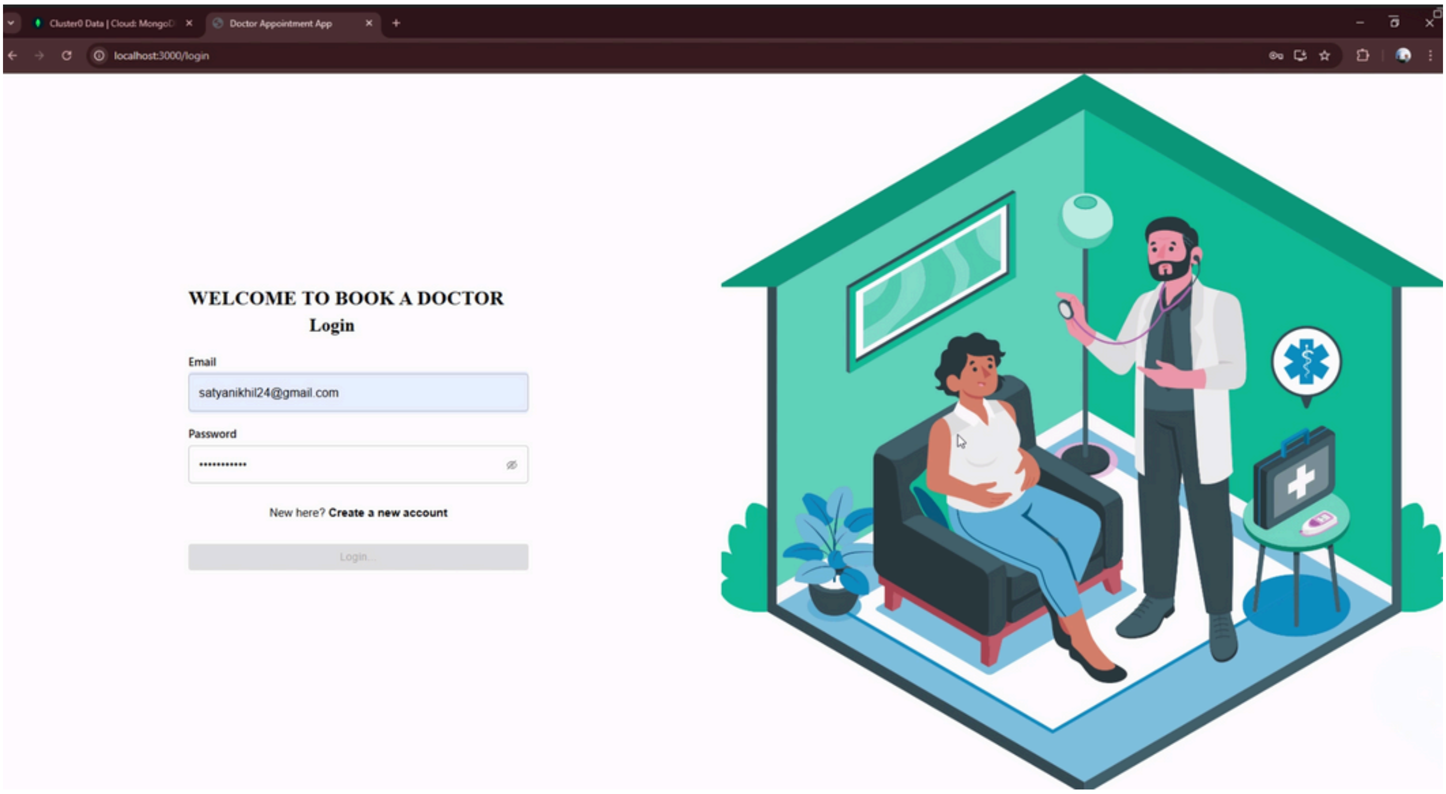
# Backend

cd server

npm start

### 7. API Documentation

- **POST /api/users/login** – User login



WELCOME TO BOOK A DOCTOR

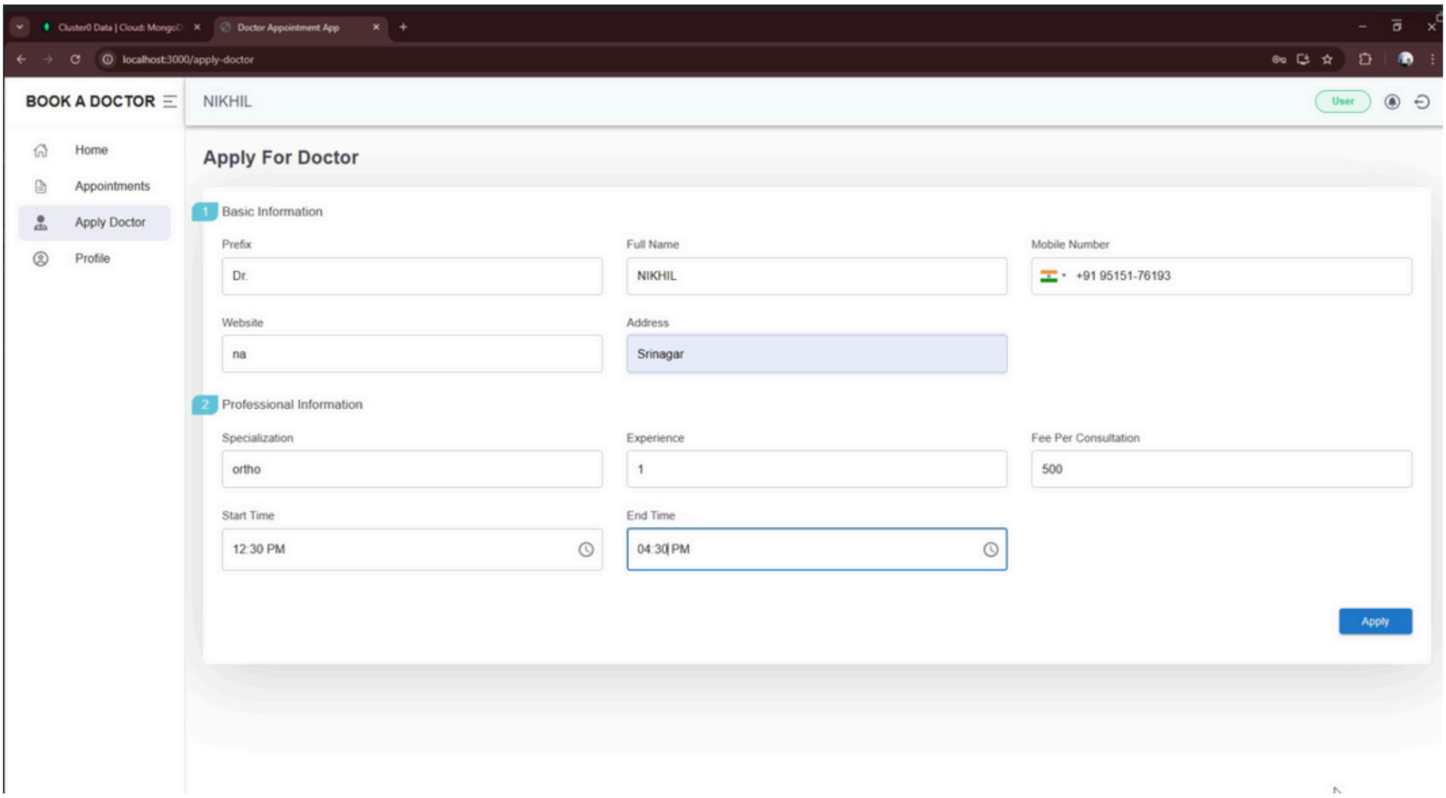
Login

Email: satyanikhil24@gmail.com

Password: •••••••••••

New here? **Create a new account**

- 
- **POST /api/doctors/add** – Add new doctor



Apply For Doctor

1 Basic Information

Prefix: Dr.

Full Name: NIKHIL

Mobile Number: +91 95151-76193

Website: na

Address: Srinagar

2 Professional Information

Specialization: ortho

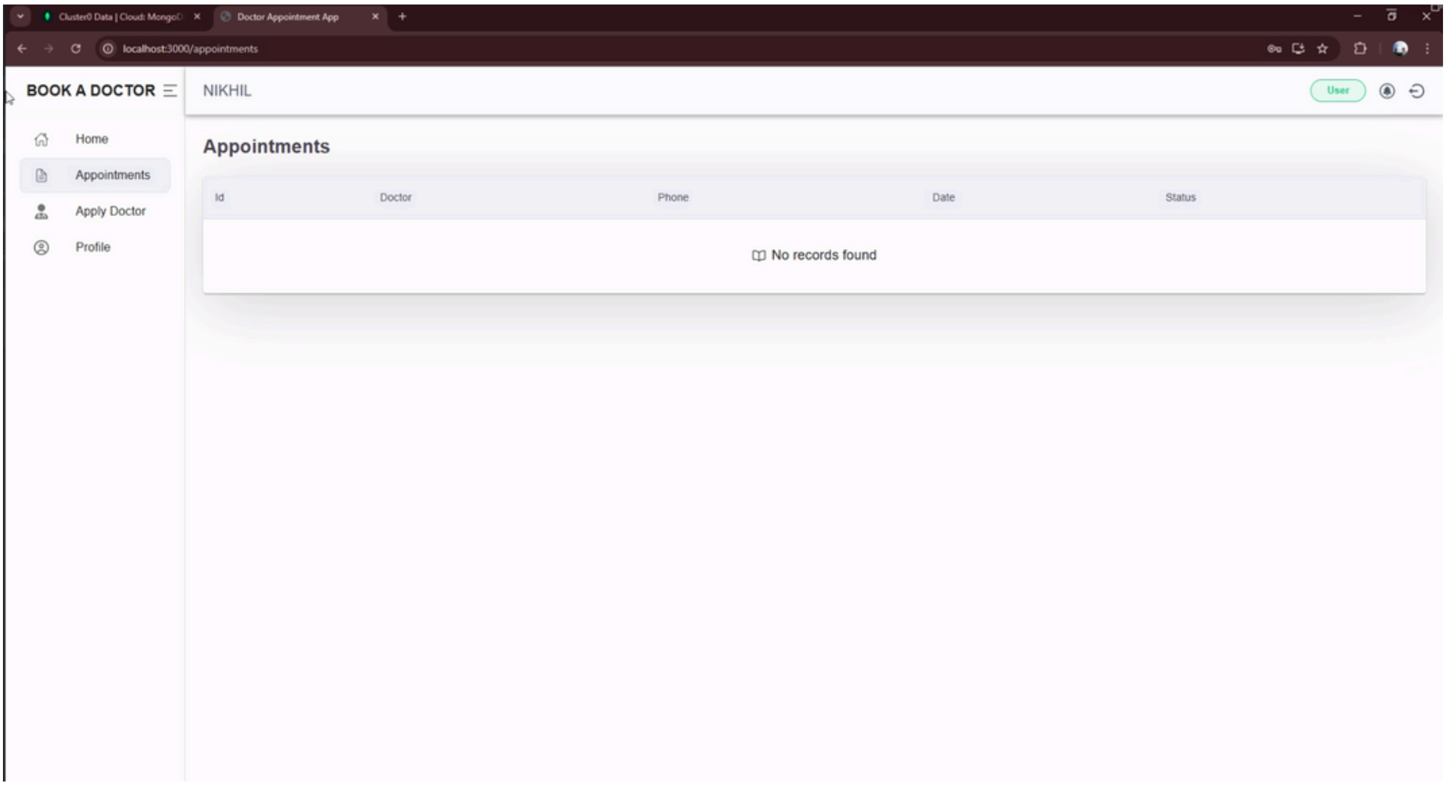
Experience: 1

Fee Per Consultation: 500

Start Time: 12:30 PM

End Time: 04:30 PM

- **GET /api/appointments/:userId** – Fetch user appointments

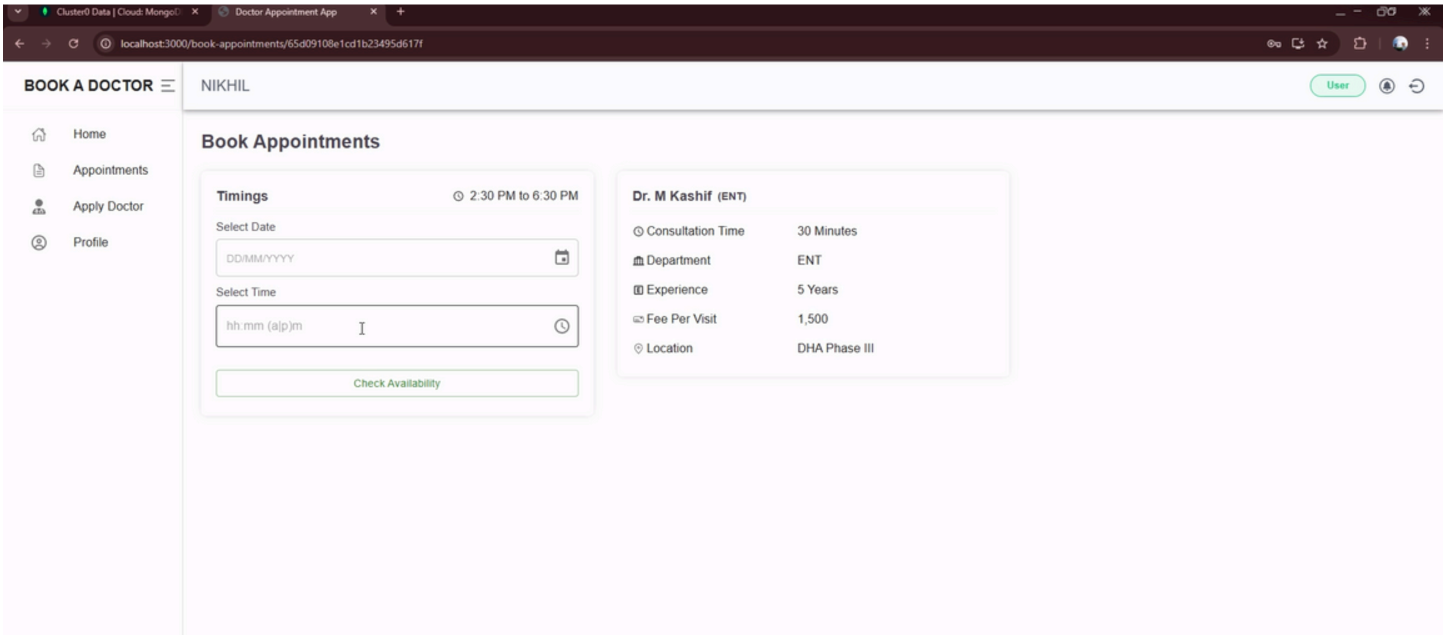


Appointments

| Id | Doctor | Phone | Date | Status |
|---|---|---|---|---|

No records found

- **POST /api/appointments/book** – Book an appointment



Book Appointments

Timings 2:30 PM to 6:30 PM

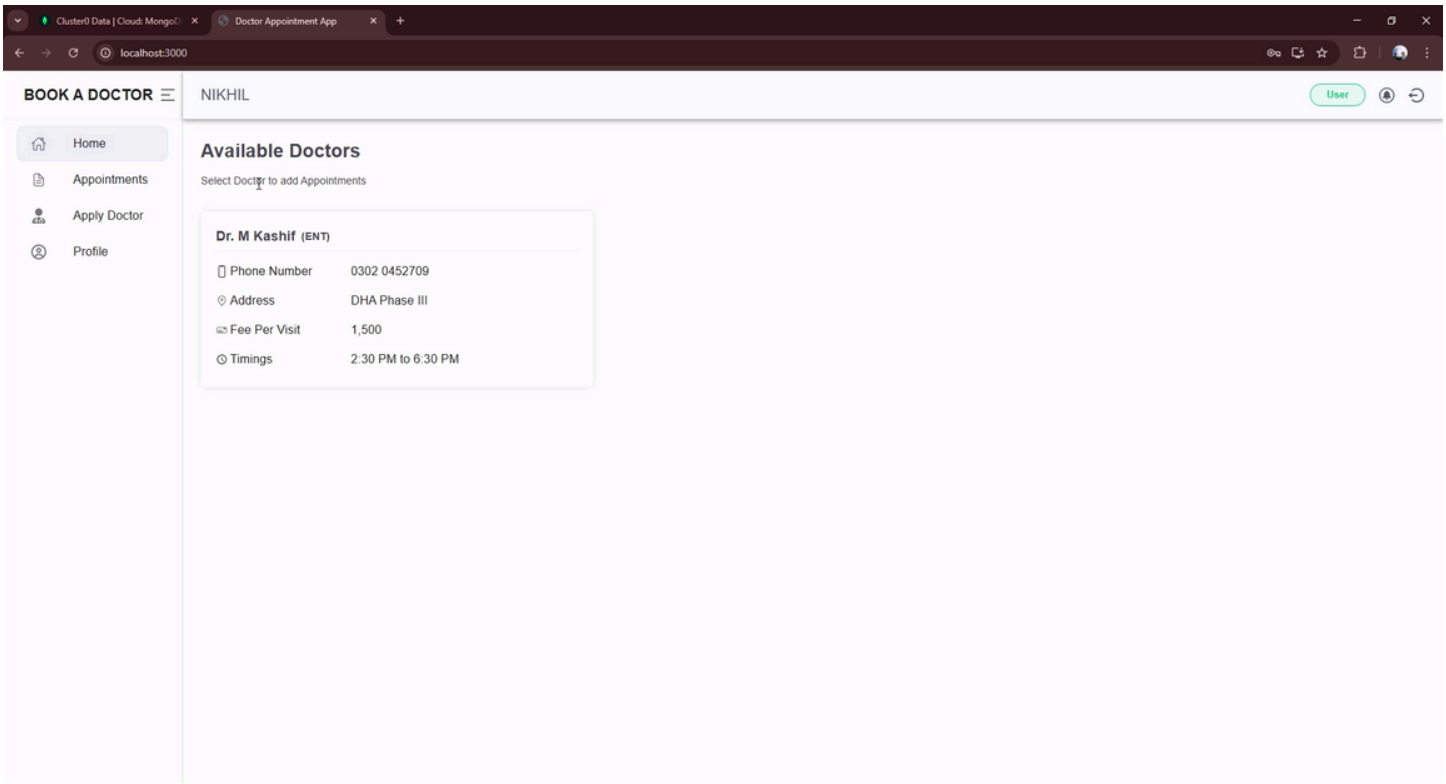
Select Date: DD/MM/YYYY

Select Time: hh:mm (a|p)m

Dr. M Kashif (ENT)

| | |
|---|---|
| Consultation Time | 30 Minutes |
| Department | ENT |
| Experience | 5 Years |
| Fee Per Visit | 1,500 |
| Location | DHA Phase III |

- **GET /api/doctors/list** – List available doctors



Available Doctors

Select Doctor to add Appointments

Dr. M Kashif (ENT)

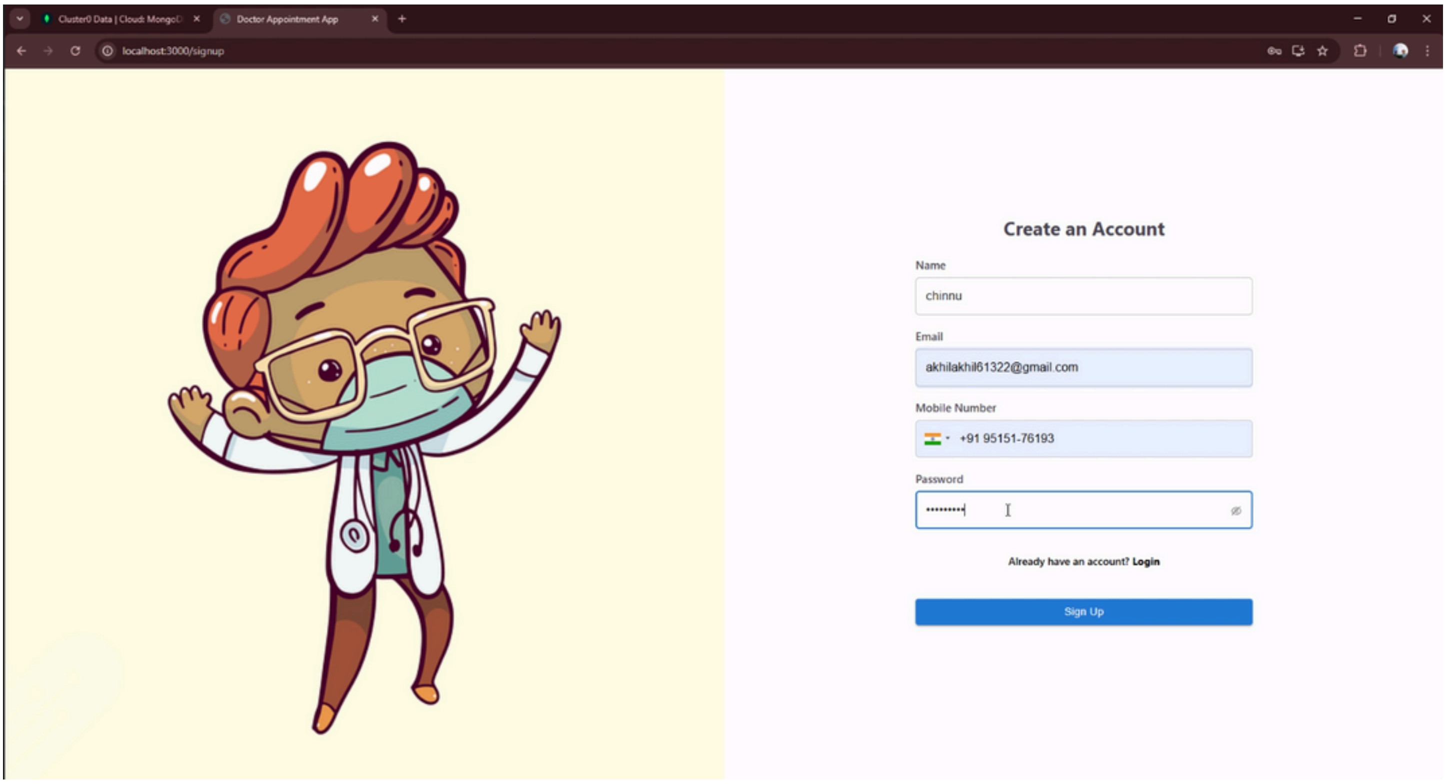
| | |
|---|---|
| Phone Number | 0302 0452709 |
| Address | DHA Phase III |
| Fee Per Visit | 1,500 |
| Timings | 2:30 PM to 6:30 PM |

## 8. Authentication

- Handled using JWT.
- On login, users receive a token stored in localStorage.
- Protected routes validated using middleware on the server.

## 9. User Interface

- Simple and intuitive interface with:
  - Doctor search page



Create an Account

Name
chinnu

Email
akhilakhil61322@gmail.com

Mobile Number
+91 95151-76193

Password
•••••••••

Already have an account? **Login**

- Booking calendar
- Dashboard for users and doctors
- Admin panel for managing users/doctors

(Screenshots can be added here or links to demo video.)

### 10. Testing

- **Tools Used**:
  - Postman (API testing)
  - Manual testing for UI
  - Jest for unit testing (planned)
- **Strategy**:
  - Unit tests for backend
  - End-to-end tests for major flows

### 11. Screenshots or Demo

- 🔗 Live Demo : 🌐 Cluster0 Data _ Cloud_ MongoDB Cloud - Google Chrome 2025-06-26 18-57-49.mp4
- 🖼 Screenshots: UPLOADED IN GIT HUB LINK

### 12. Known Issues

- Teleconsultation may fail on weak networks.
- Admin panel needs role-based access restrictions.

### 13. Future Enhancements

- Push Notifications
- SMS/Email Appointment Reminders
- Payment Gateway Integration
- Multi-language Support
- Prescription Uploads