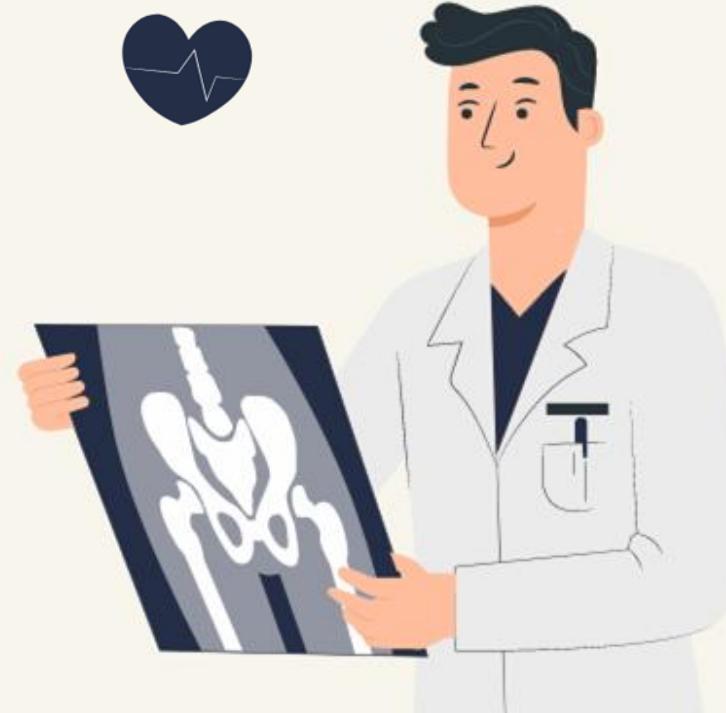


Infosys
Springboard

EDoctor Application

Team-4

Sagnik Bhunia
Oggula Rikittha
Palla Pravallika
Rajibul Islam



Objective



The objective of the **EDoctor Application** is to develop a web-based platform that simplifies outpatient appointment booking by:

- Providing a seamless and user-friendly interface for patients to schedule appointments.
- Offering doctors an efficient system to manage their schedules and patient interactions.
- Streamlining the appointment management process to enhance overall healthcare service delivery.



Introduction



The **EDoctor Application** is a web-based platform designed to revolutionize the process of booking outpatient appointments. By connecting patients and doctors through a seamless interface, the application eliminates inefficiencies in traditional scheduling methods. It offers features such as user authentication, real-time appointment booking, doctor availability management, and automated notifications.

This project aims to improve the experience of healthcare delivery by simplifying appointment management for both patients and doctors, ensuring convenience, accessibility, and satisfaction for all stakeholders involved.

Services we provide

User
Authentication
& Management

Appointment
Scheduling

Doctor &
Patient
Management

Website
Statistics &
Reporting



Requirements



Software

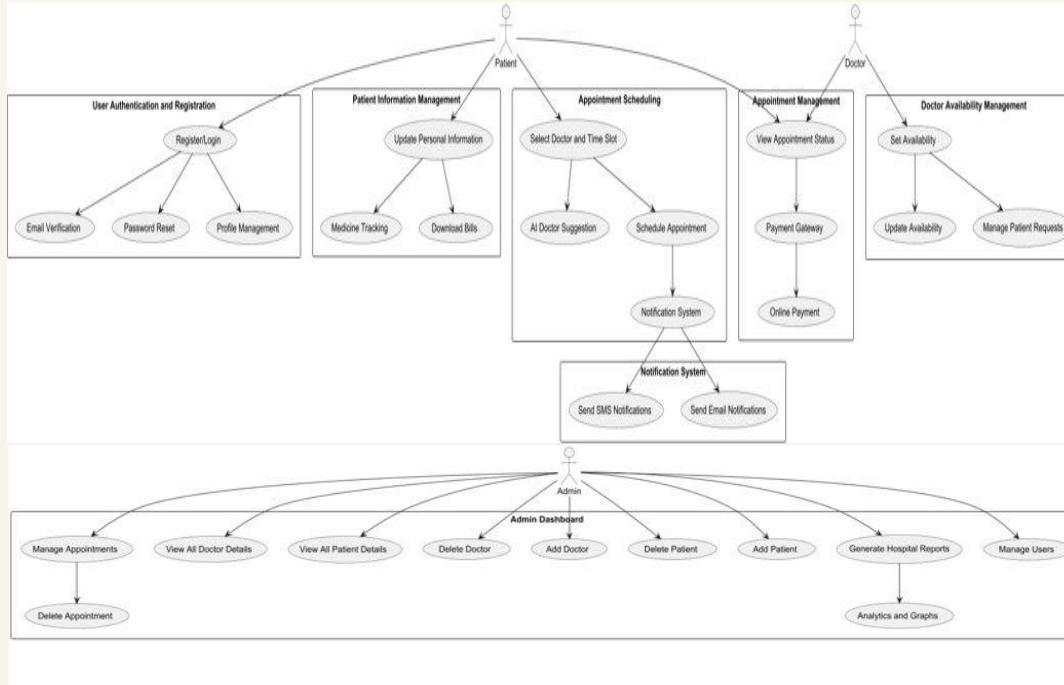
Frontend: React.js, Node.js
Backend: Spring Boot, Maven
Database: MySQL
Tools: IntelliJ IDEA/Eclipse, Visual Studio Code, Postman, MySQL Workbench
OS: Windows 10/11, macOS, or Linux



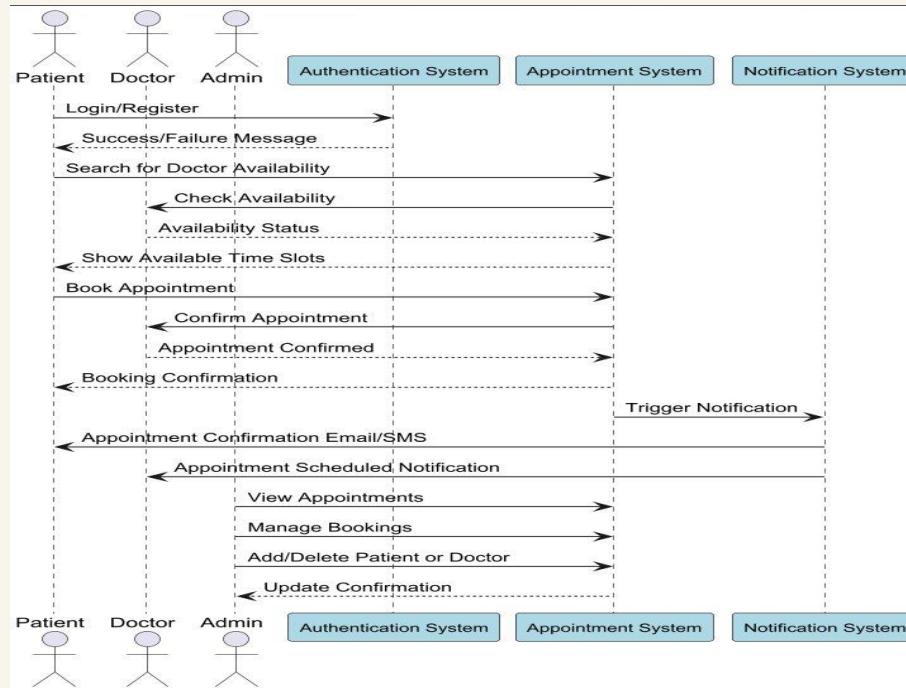
Hardware

Processor: Intel i3+ / AMD equivalent
RAM: 8 GB (Recommended: 16 GB)
Storage: 256 GB SSD or 500 GB HDD (Recommended: 512 GB SSD)
Internet: Stable connection

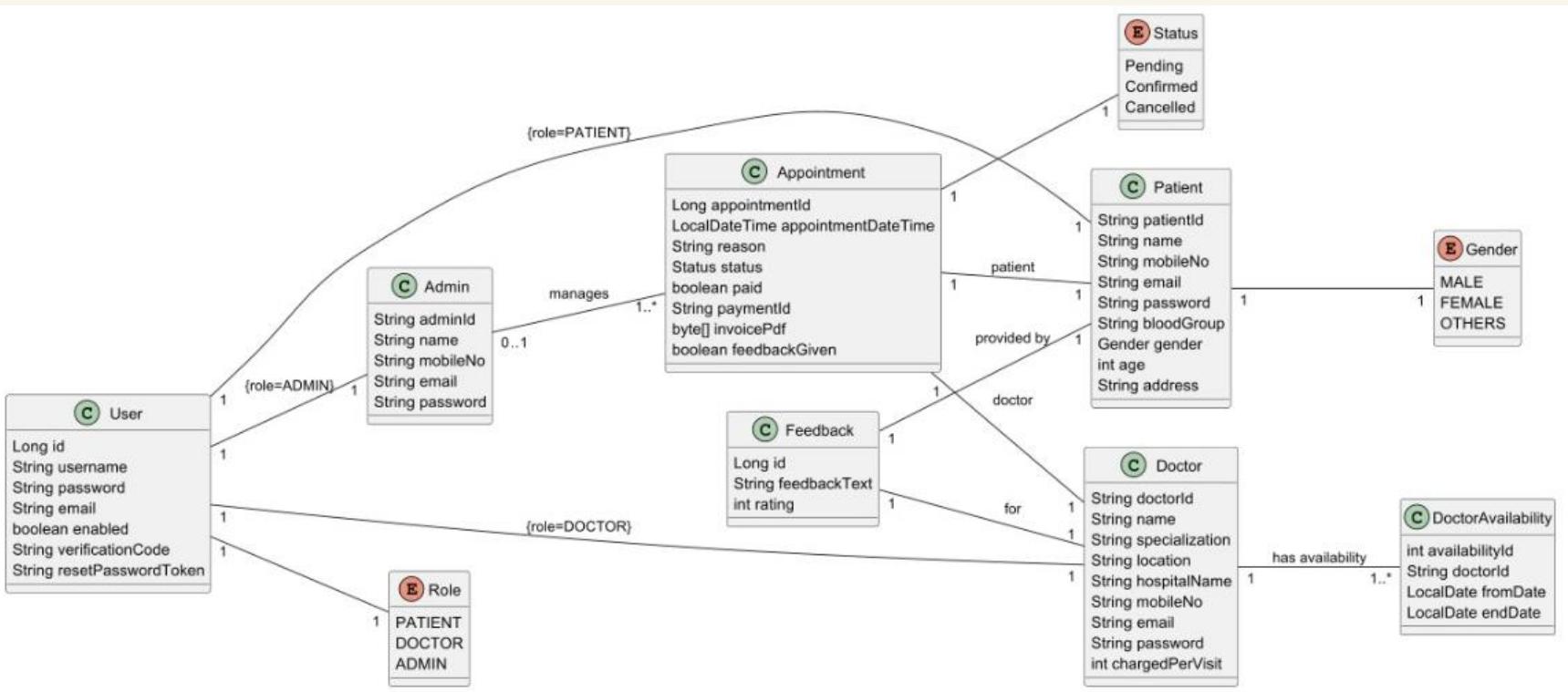
Use-Case Diagram



Sequence Diagram



Class Diagram



User Authentication

- **User Registration:** Users can register by providing their details, validated and stored securely.
- **Login:** Users authenticate via username and password, with a response based on validity.
- **Email Verification:** Users confirm their email using a verification code (OTP).
- **Password Reset:** Users can request a reset token and update their password.



Landing Page

Welcome to EDoctor

Your one-stop solution for managing outpatient appointments efficiently.

[Get Started](#) [Login](#)

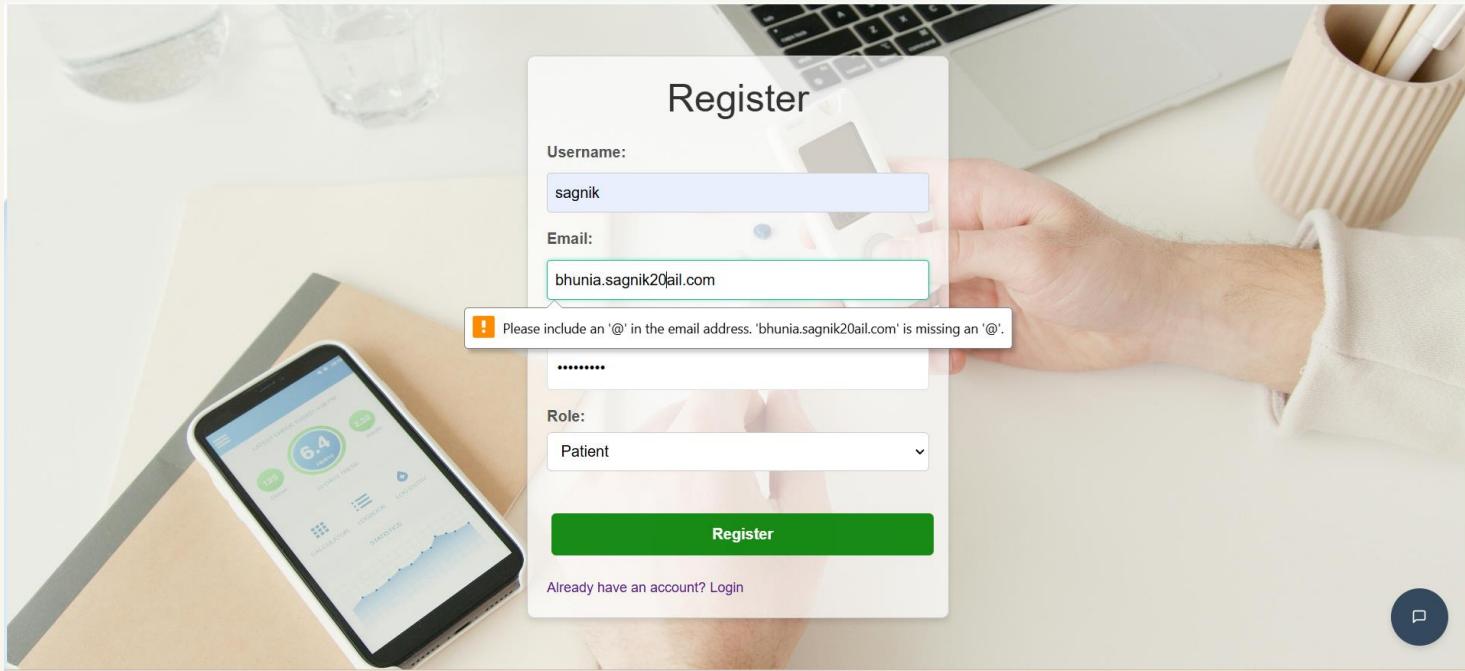
Why Choose E-Doctor?

Easy Scheduling
Quickly schedule and manage your appointments without any hassle.

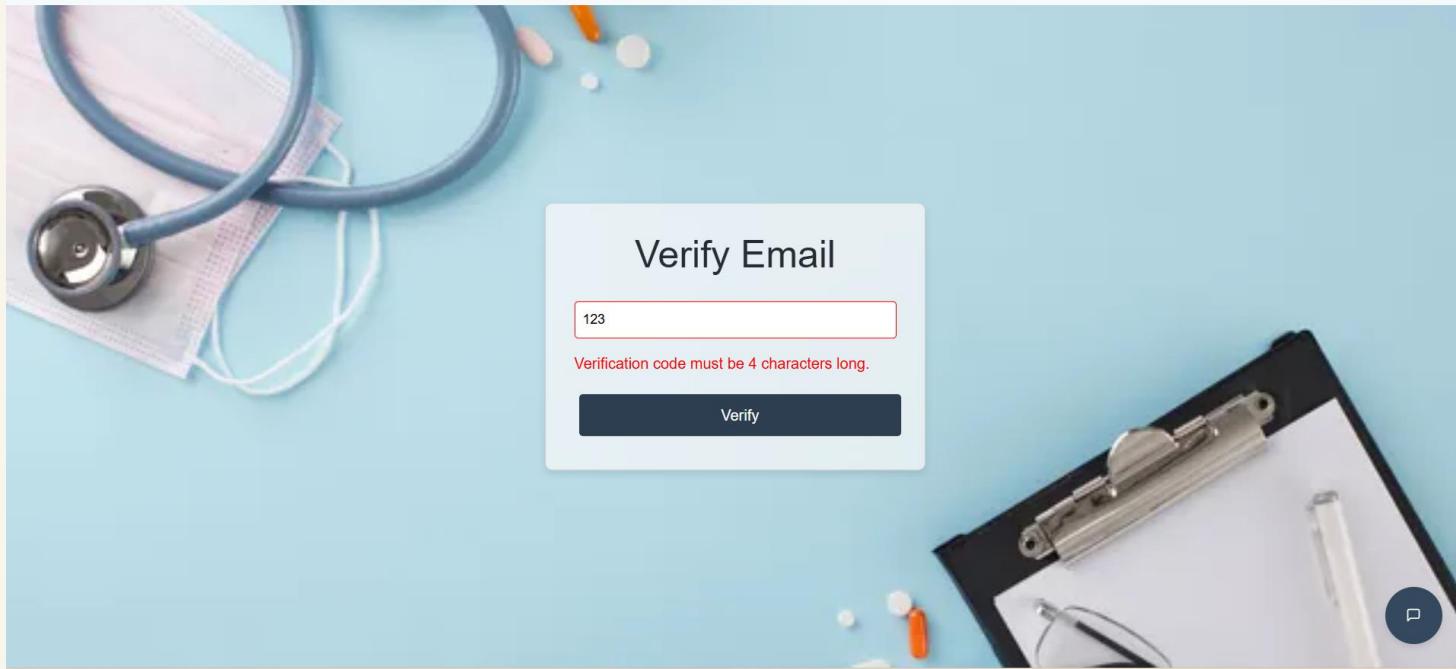
Seamless Experience
A smooth, intuitive interface tailored to your specific needs.

Data Security
We prioritize your privacy and security at every step.

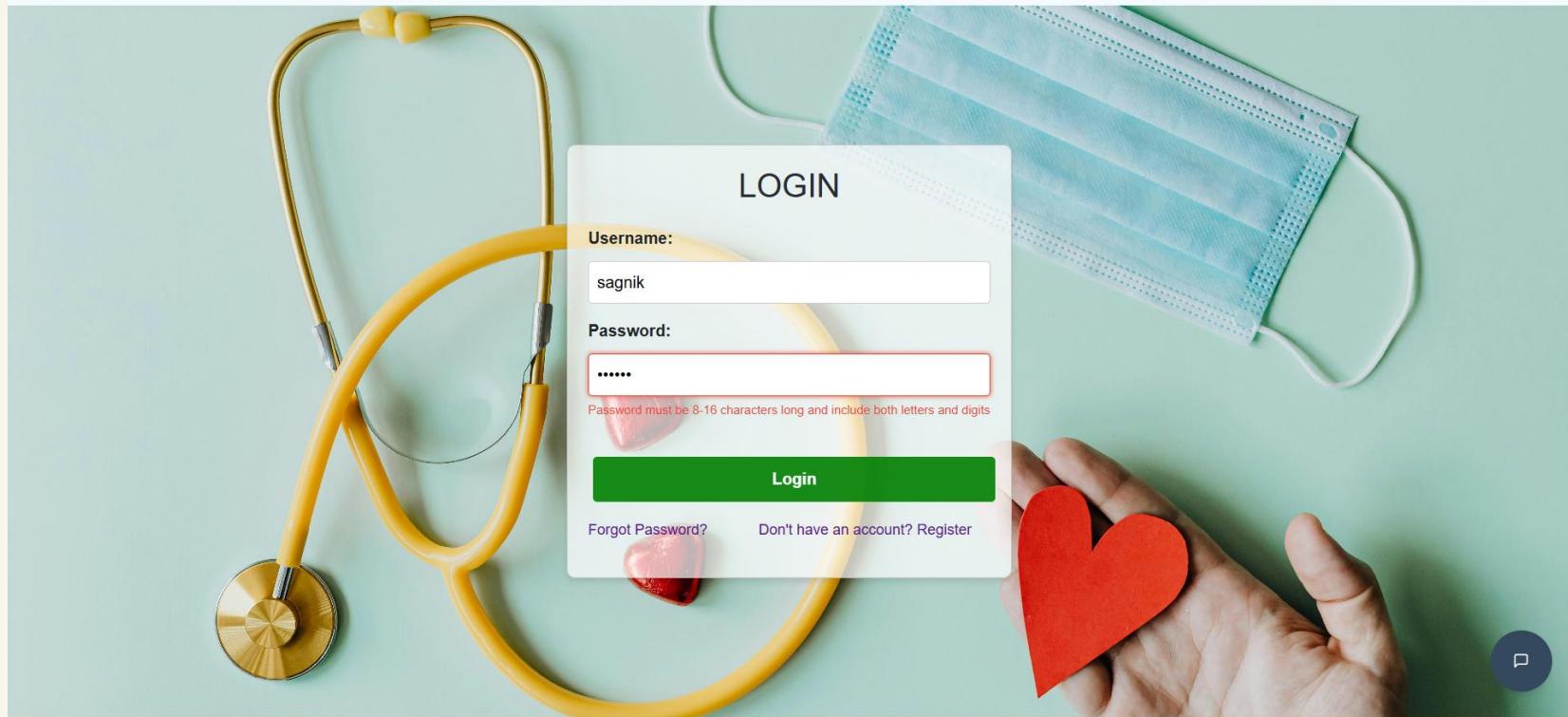
User Registration Page



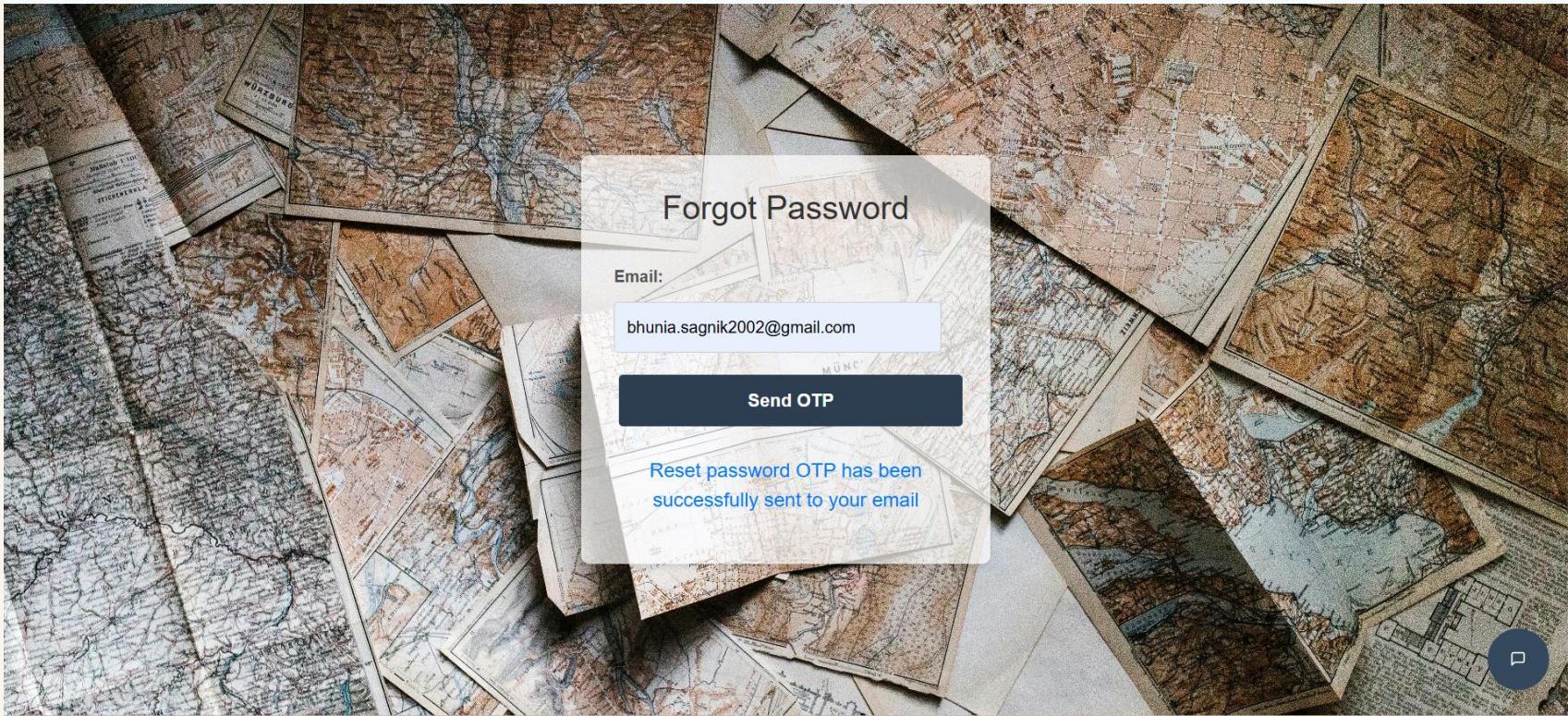
Email Verification Page



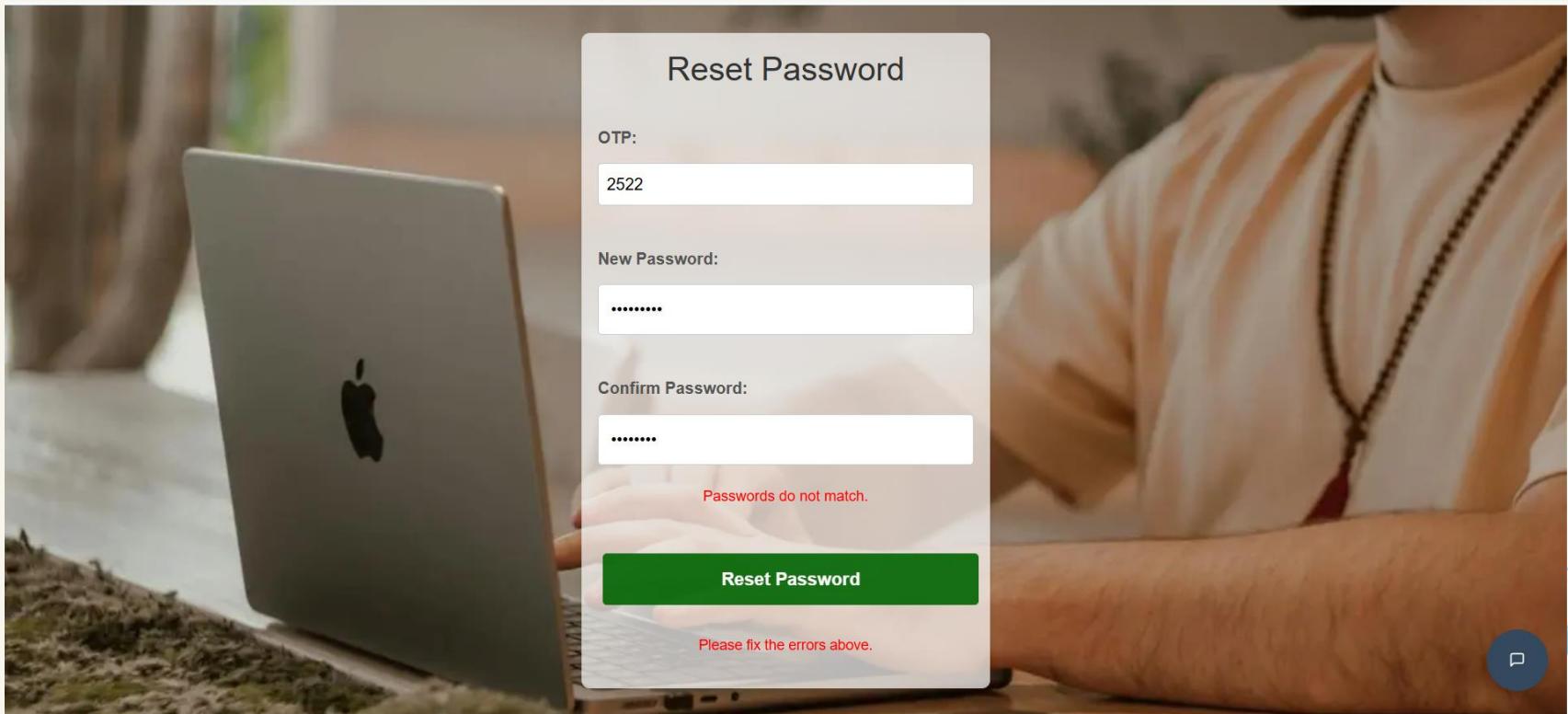
Login Page



Forgot-Password Page



Reset-Password Page



Patient

- **Profile Management:**

View and update personal information, medical history, and daily medicine schedules.

- **Find Doctors:**

Search for doctors by specialization, location, and availability. AI suggestions recommend suitable doctors.

- **Make Appointment:**

Schedule appointments with doctors, select time slots, and provide reasons for the consultation. Payments can be made online or in cash.

- **Appointment Management:**

View, manage, and track appointments with status updates and reminders.

- **Pay Fees:**

Make payments securely online or opt for cash. Download hospital bills directly from the dashboard.

- **Provide Feedback:**

Rate doctors and provide feedback after consultations.



Patient Dashboard

Welcome, Alak !

Profile

Doctors

Appointments

Payments

Feedback

Logout

EMPOWERING YOUR WELLNESS, ONE STEP AT A TIME!

Book your appointments, view your medical history, and update your profile all from this central hub.

Use the navigation bar above to explore your appointments, health records, and more.

If you need any help or guidance, feel free to contact the support team or check the Help section.



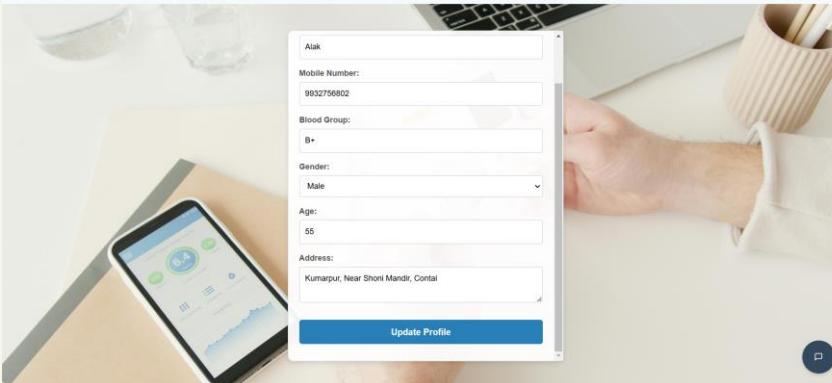
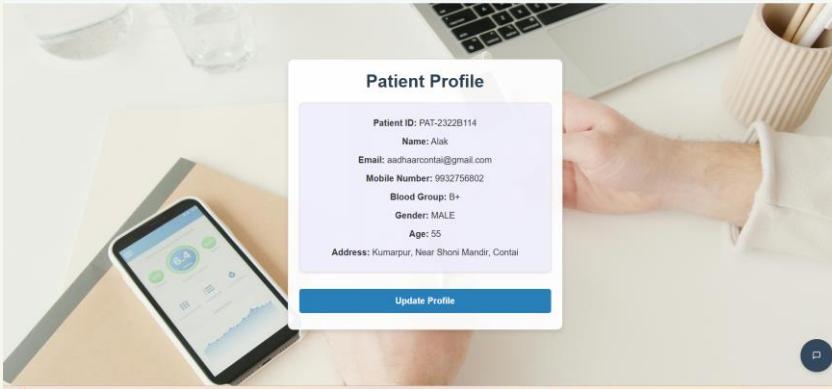
Chat-Bot

The image shows a mobile application screen with a dark blue header. The header contains the text "gnik Bhunia!" in large white letters, followed by a navigation bar with "Payments", "Feedback▼", and "Logout". A profile picture of a woman is visible in the background. A white chat bubble from "DocBot" is overlaid on the screen. The chat bubble has a dark blue header with "DocBot" and a close "x" button. The message history includes:

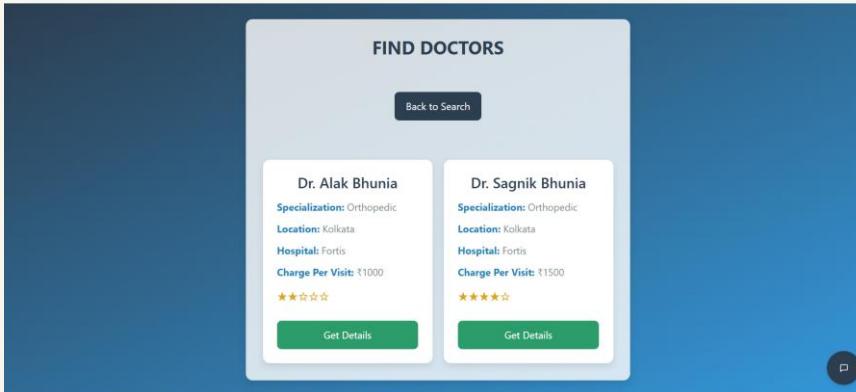
- DocBot: Hi
- DocBot: Hi there! How can I assist you with your doctor appointment today?
- DocBot: How to schedule appointment?
- DocBot: An online doctor appointment allows you to consult with a healthcare professional remotely via video, phone, or text.

A text input field at the bottom says "Type your message..." with a send arrow icon.

Patient Profile



Find Doctors



Book Appointment

Dr. Sagnik Bhunia

Specialization: Orthopedic

Location: Kolkata

Hospital: Fortis

Charge Per Visit: ₹1500

★★★★★

Available Dates:

1. 12/26/2024 to 12/27/2024
2. 1/2/2025 to 1/8/2025

Schedule Appointment

dd-mm-yyyy

--:--

Enter the reason for the appointment

Book Appointment

View Appointments

My Appointments

Appointment ID	Doctor Name	Reason	Appointment Date	Appointment Time	Status	Actions
10	Dr. Alak Bhunia	Cancelled by Admin	2025-01-05	14:35:00	Cancelled	Completed
11	Dr. Alak Bhunia	Cancelled by Admin	2025-01-06	11:18:00	Cancelled	Completed
12	Dr. Alak Bhunia	Cancelled by Admin	2025-01-06	17:01:00	Cancelled	Completed
14	Dr. Alak Bhunia	Routine Checkup	2025-01-07	16:18:00	Confirmed	PAID - Go to Payments section to download invoice
15	Dr. Sagnik Bhunia	Wrong date entered	2025-01-08	13:17:00	Cancelled	Completed
16	Dr. Sagnik Bhunia	Routine Checkup	2025-01-08	12:27:00	Pending	<button>Update</button> <button>Cancel</button>



Payments Section

Payments

APPOINTMENT ID	DOCTOR NAME	APPOINTMENT DATE	APPOINTMENT TIME	PAYMENT STATUS	ACTIONS
2	Dr. Sagnik Bhunia	2024-12-24	12:40:00	Paid	<button>View Invoice</button>
6	Dr. Sagnik Bhunia	2024-12-27	17:01:00	Paid	<button>View Invoice</button>
17	Dr. Alak Bhunia	2025-01-12	14:35:00	Paid	<button>View Invoice</button>
18	Dr. Alak Bhunia	2025-01-14	15:51:00	Unpaid	<button>Pay Now</button>



Make Payment

Test Mode

R RAJIBUL

Appointment ID	Doctor Name
1	Dr. S
2	Dr. S
3	Dr. S
4	Dr. S
5	Dr. S
6	Dr. S

Price Summary
₹1,650

Using as +91 93399 48625 >

Secured by Razorpay

Payment Options

UPI QR

11:44

SCAN WITH ANY APP

UPI ID / Number

*****@oksbi

Verify and Pay

Payment Success Page

Payments



Payment Successful

APPOINTMENT ID	DOCTOR NAME	APPOINTMENT DATE	APPOINTMENT TIME	PAYMENT STATUS	ACTIONS
2	Dr. Sagnik Bhunia	2024-12-24	12:40:00	Paid	<button>View Invoice</button>
6	Dr. Sagnik Bhunia	2024-12-27	17:01:00	Paid	<button>View Invoice</button>
17	Dr. Alak Bhunia	2025-01-12	14:35:00	Paid	<button>View Invoice</button>
18	Dr. Alak Bhunia	2025-01-09	17:47:00	Paid	<button>View Invoice</button>
19	Dr. Alak Bhunia	2025-01-14	17:57:00	Paid	<button>View Invoice</button>
20	Dr. Alak Bhunia	2025-01-15	12:12:00	Unpaid	<button>Pay Now</button>



Invoice

A screenshot of a digital document titled "Appointment Invoice" from "E-Doctor Healthcare Services". The document includes patient details, appointment details, and a fee summary table.

1 / 2 | - 100% + | ☰

Appointment Invoice

E-Doctor Healthcare Services
Your one stop outpatient appointment service

Appointment Details

Doctor: Dr. Sagnik Bhunia
Patient: Sagnik Bhunia
Date: 2024-12-24
Time: 12:40
Hospital: Fortis
Location: Kolkata

Fee Details

Description	Amount ()
Consultation Fee	1500.0
Convenience Fee (10%)	150.0
Total Amount	1650.0
Payment ID: order_Pb5gnFc34rexE9	

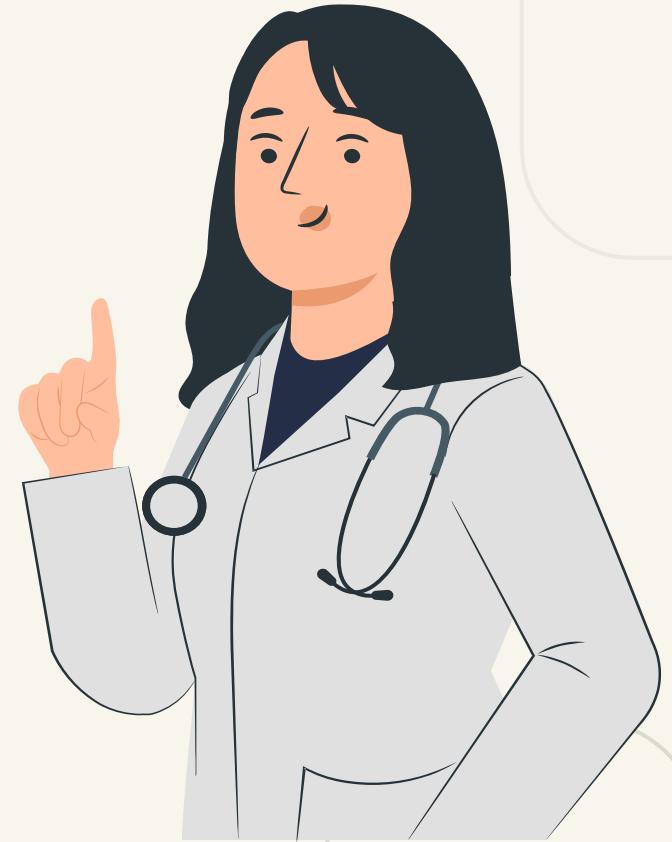
Feedback

All Feedbacks		
Doctor	Feedback	Rating
Sagnik Bhunia	Nice doctor	★★★★☆
Alok Bhunia	Very kind and helpful doctor	★★★★★

Pending Feedback				
Doctor Name	Specialization	Feedback	Rating	Actions
Sagnik Bhunia	Orthopedic	<input type="text"/> Feedback cannot be empty!	<input type="text"/> 5	<button>Add Feedback</button>

Doctor

- **Doctor Profile:**
View and update personal information, qualifications, and upload a profile picture.
- **Manage Availability:**
Set working hours, specify time slots, and mark unavailable dates.
- **Manage Appointments:**
View, accept, reject, reschedule, or cancel patient appointments.
- **View Feedback:**
Access patient ratings and feedback after consultations.
- **Appointment Notifications:**
Receive real-time updates for appointment requests, changes, or cancellations.



Doctor Dashboard

Welcome, Dr. Sagnik Bhunia!

Profile

Availability

Appointments

View Feedbacks

Logout

EVERY CLICK HERE LEADS TO HEALTHIER LIVES. LET'S GO!

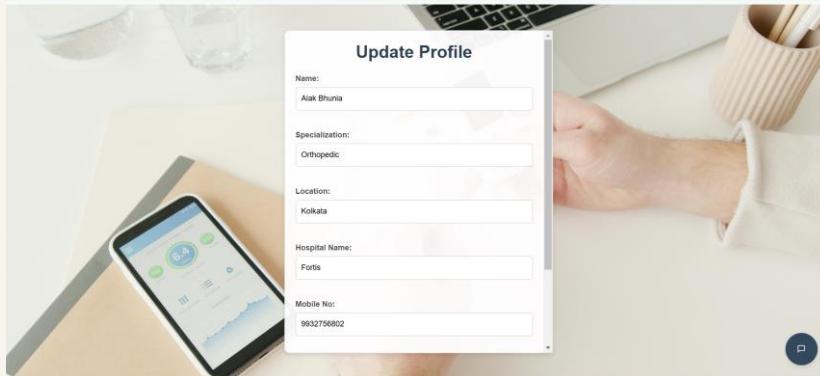
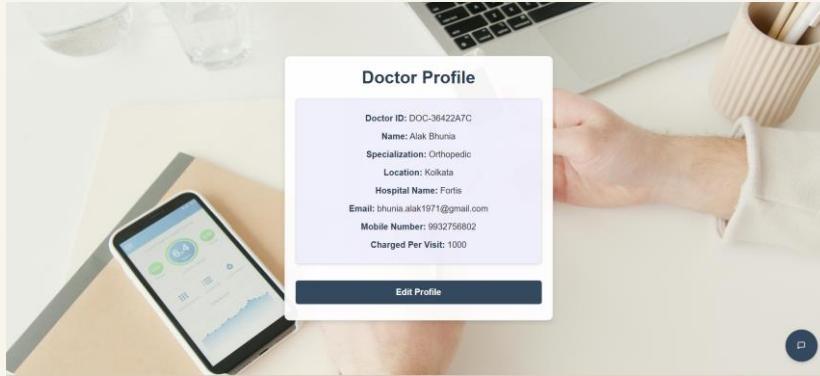
Manage your appointments update your availability view your profile all from this central hub

You can navigate through the sections in the navbar above to access your schedule, patient details, and more.

If you need any assistance, feel free to reach out to the support team or visit the Help section.



Doctor Dashboard



Doctor Availability

The image shows a person's hand holding a white smartphone. The screen of the phone displays a web-based application titled "Doctor Availability". The app has a green header bar with the title. Below the header is a table with four columns: "ID", "From Date", "End Date", and "Actions". There are two rows in the table. The first row contains ID 7, From Date 2025-01-05, End Date 2025-01-10, and buttons for "Update" (green) and "Delete" (red). The second row contains ID 8, From Date 2025-01-12, End Date 2025-01-16, and buttons for "Update" (green) and "Delete" (red). Below the table is a form titled "Add Availability" with fields for "From Date" and "End Date", each with a date input field and a calendar icon. At the bottom is a dark blue button labeled "Add Availability". The background of the image is a blurred photograph of a desk with a laptop keyboard, a cup of coffee, and a pen holder.

ID	From Date	End Date	Actions
7	2025-01-05	2025-01-10	<button>Update</button> <button>Delete</button>
8	2025-01-12	2025-01-16	<button>Update</button> <button>Delete</button>

Add Availability

From Date:

dd-mm-yyyy

End Date:

dd-mm-yyyy

Add Availability

Appointments

Appointment ID	Patient Name	Age	Gender	Reason	Appointment Date	Appointment Time	Status	Actions
10	Alak	55	MALE	Cancelled by Admin	2025-01-05	14:35:00	Cancelled	Completed
11	Alak	55	MALE	Cancelled by Admin	2025-01-06	11:18:00	Cancelled	Completed
12	Alak	55	MALE	Are you sure you want to confirm this appointment?	17:01:00	Cancelled	Completed	
13	Sagnik Bhunia	22	MALE					
14	Alak	55	MALE	Checkup	2025-01-07	16:18:00	Confirmed	Completed
17	Sagnik Bhunia	22	MALE	Routine	2025-01-12	14:35:00	Confirmed	Completed
18	Sagnik Bhunia	22	MALE	Checkup	2025-01-14	15:51:00	Pending	<button>Confirm</button> <button>Cancel</button>

Processing...

No



Feedbacks Given by Patients

Feedback

Average Rating: ★★★★☆

PATIENT ID	RATING	FEEDBACK
PAT-466CA7EA	★★★★☆	Very kind and helpful doctor



Admin

- **Manage Patients:**

View, add, edit, or delete patient records and manage their medical information.

- **Manage Doctors:**

Add, edit, or remove doctors, and update doctor availability.

- **Manage Appointments:**

View and manage appointments, including scheduling, rescheduling, or cancellations.

- **Check Statistics:**

View daily, weekly, and monthly hospital reports on patient admissions and discharges with graphical charts.



Admin Dashboard

Welcome, Sagnik!

Patients ▾

Doctors ▾

Appointments ▾

Stats ▾

Logout

WELCOME TO THE ADMIN DASHBOARD

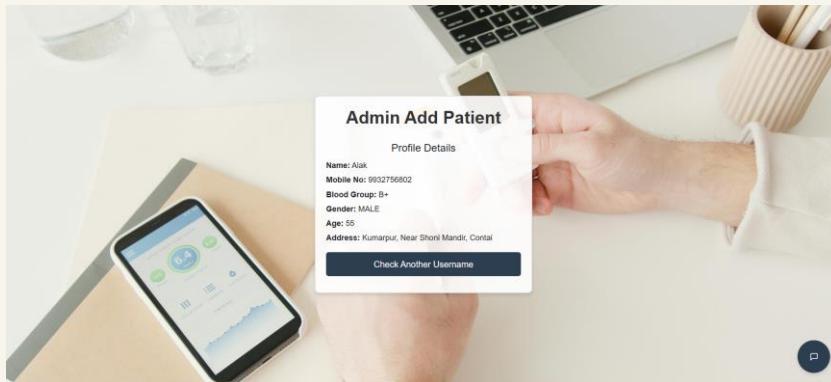
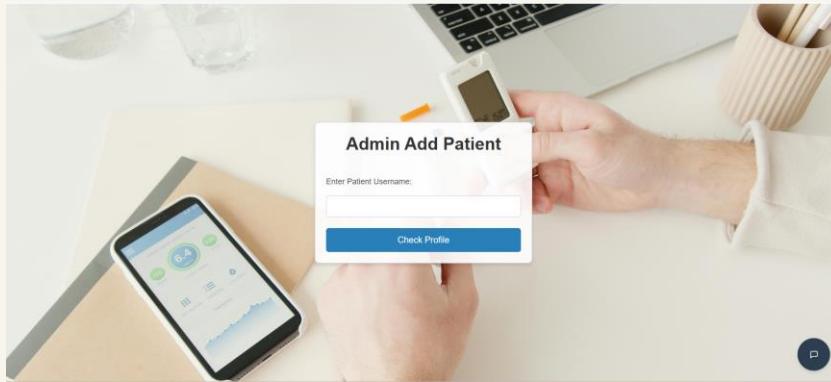
Manage patients, view doctor details, track status, and much more

You can navigate through the available sections in the navbar above to access patient information, doctor profiles, and system status.

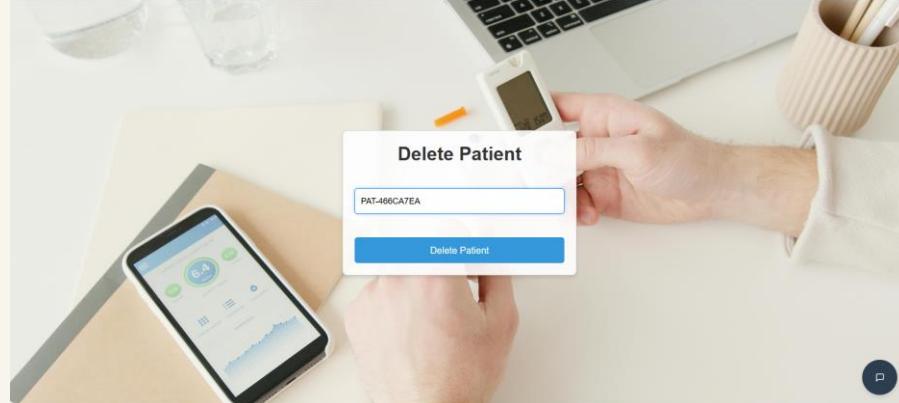
If you need any assistance, feel free to reach out to the support team or visit the Help section.



Admin Add Patient

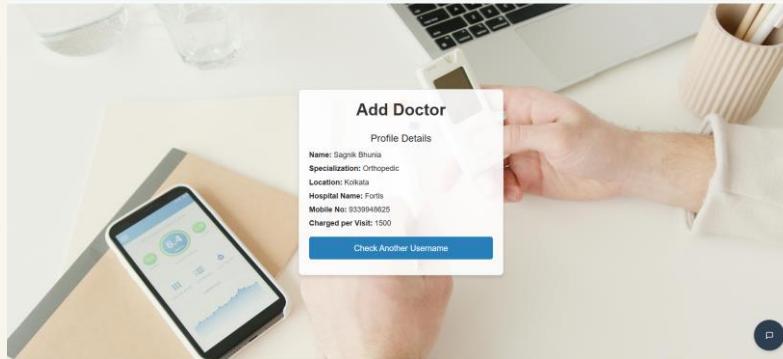
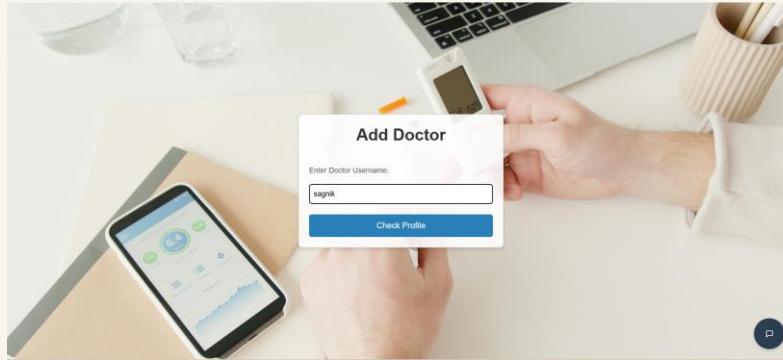


Update, Delete and All Patients Options for Admin

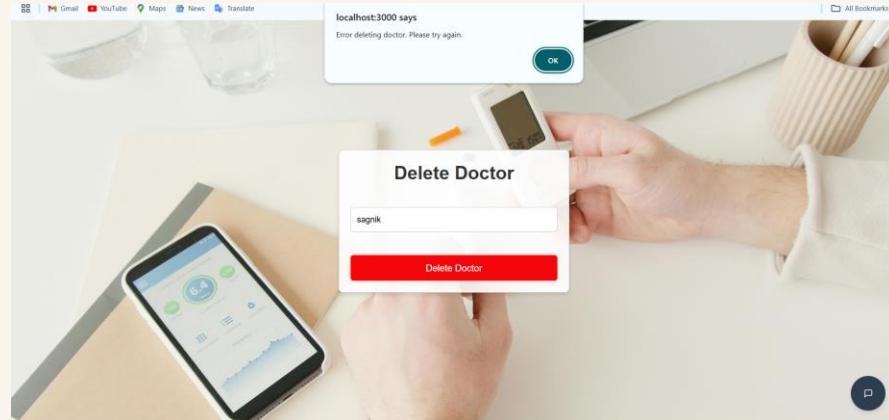
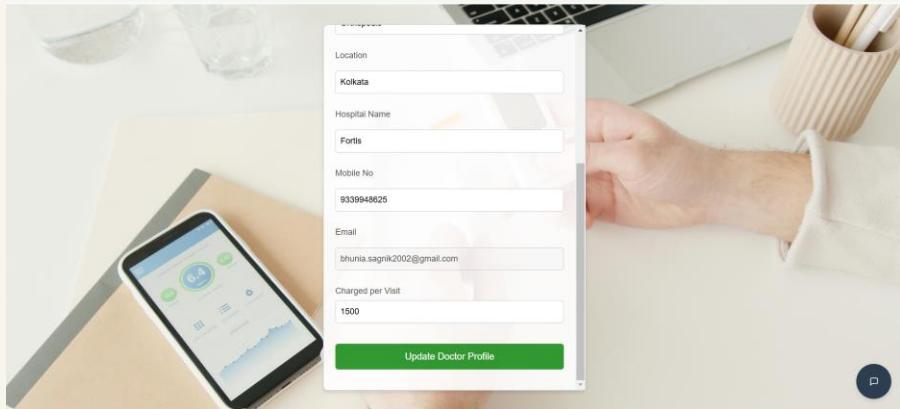


All Patients						
Patient ID	Name	Email	Mobile Number	Gender	Blood Group	Age
PAT-2322B114	Alak	aadhaarcontai@gmail.com	9932756802	MALE	B+	55
PAT-466CA7EA	Sagnik Bhunia	iambhuniasagnik@gmail.com	9339948625	MALE	O+	22

Admin Add Doctor

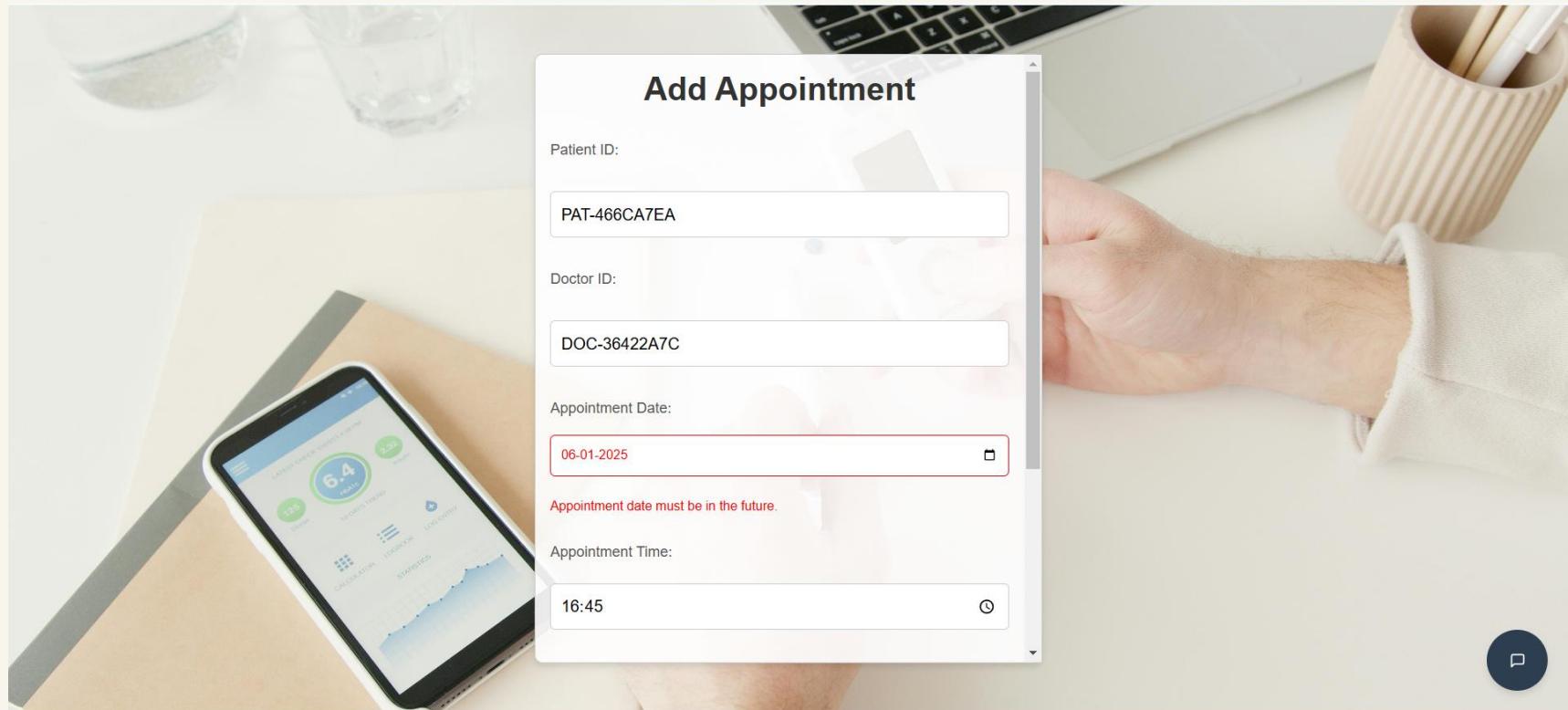


Update, Delete and All Doctors Options for Admin

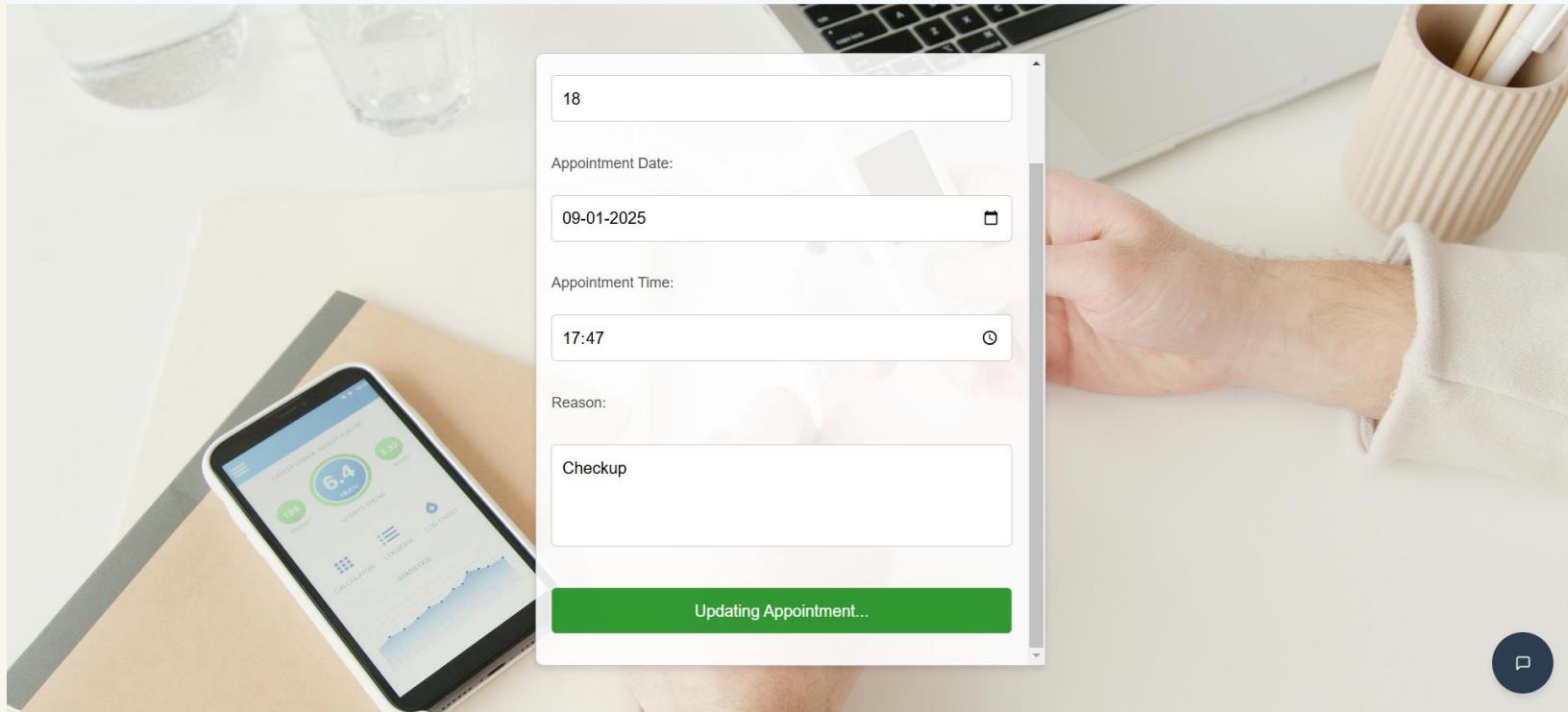


All Doctors						
Doctor ID	Name	Specialization	Location	Hospital Name	Mobile Number	Charge per Visit
DOC-36422A7C	Alak Bhunia	Orthopedic	Kolkata	Fortis	9932756802	1000
DOC-A7A37143	Sagnik Bhunia	Orthopedic	Kolkata	Fortis	9339948625	1500

Add Appointment option for Admin



Update Appointment option for Admin



Delete Appointments option for Admin

Delete Appointments

Appointment ID	Doctor Name	Patient Name	Appointment Date	Appointment Time	Action
16	Dr. Sagnik Bhunia	Alak	1/8/2025	12:27:00 PM	<button>Delete</button>
18	Dr. Alak Bhunia	Sagnik Bhunia	1/9/2025	5:47:00 PM	<button>Delete</button>



All Appointments option for Admin

All Appointments

Appointment ID	Doctor ID	Patient ID	Appointment Date	Appointment Time	Reason	Status
1	DOC-A7A37143	PAT-466CA7EA	12/24/2024	6:35:00 AM	Wrong date	Cancelled
2	DOC-A7A37143	PAT-466CA7EA	12/24/2024	12:40:00 PM	Routine Checkup	Confirmed
3	DOC-A7A37143	PAT-466CA7EA	12/24/2024	7:47:00 PM	Not available	Cancelled
4	DOC-A7A37143	PAT-466CA7EA	12/27/2024	10:54:00 PM	Cancelled by Admin	Cancelled
5	DOC-A7A37143	PAT-466CA7EA	12/27/2024	3:38:00 PM	Cancelled by Admin	Cancelled
6	DOC-A7A37143	PAT-466CA7EA	12/27/2024	5:01:00 PM	Routine checkup	Confirmed
7	DOC-A7A37143	PAT-466CA7EA	12/27/2024	6:00:00 PM	Cant take appointment	Cancelled
8	DOC-A7A37143	PAT-466CA7EA	1/2/2025	4:30:00 PM	Cancelled by Admin	Cancelled
9	DOC-A7A37143	PAT-466CA7EA	1/4/2025	8:40:00 PM	Cancelled by Admin	Cancelled
10	DOC-36422A7C	PAT-2322B114	1/5/2025	2:35:00 PM	Cancelled by Admin	Cancelled
11	DOC-36422A7C	PAT-2322B114	1/6/2025	11:18:00 AM	Cancelled by Admin	Cancelled



Patient Statistics

Patient Statistics

Patient ID	Name	Mobile No	Email ID	No. of Appointments	Pending	Confirmed		Cancelled
						Paid	Unpaid	
PAT-2322B114	Alak	9932756802	aadhaarcontai@gmail.com	6	1	1	0	4
PAT-466CA7EA	Sagnik Bhunia	9339948625	iambhuniasagnik@gmail.com	12	0	3	1	8



Doctor Statistics

Doctor Statistics

Doctor ID	Name	Email ID	Mobile No	Specialization	No. of Appointments	Pending	Confirmed		Cancelled
							Paid	Unpaid	
DOC-36422A7C	Alak Bhunia	bhunia.alak1971@gmail.com	9932756802	Orthopedic	7	0	2	1	4
DOC-A7A37143	Sagnik Bhunia	bhunia.sagnik2002@gmail.com	9339948625	Orthopedic	11	1	2	0	8



Website Statistics

Web Statistics

Select Time Period: Last Week ▾

Statistics for last week

Start Date	2024-12-29
End Date	2025-01-05
Total Appointments	3
Pending Appointments	0
Confirmed Appointments	0
Cancelled Appointments	3
Paid Confirmed Appointments	0
Unpaid Confirmed Appointments	0



Acknowledgement



We extend our heartfelt gratitude to our mentors for their invaluable guidance and support throughout the development of the EDoctor Application. Their expertise was crucial in overcoming challenges and ensuring the project's success.

We also thank Infosys Springboard for providing the opportunity to explore new technologies, refine our skills, and apply our knowledge in a practical setting. This experience has been enriching, helping us grow both personally and professionally.

Conclusion

The **EDoctor Application** demonstrates our ability to design and implement a comprehensive solution for streamlining outpatient appointment management. By integrating modern technologies like React, Spring Boot, and MySQL, we created a user-friendly platform catering to patients, doctors, and administrators.

This project not only enhanced our technical skills but also fostered teamwork, problem-solving, and innovation. We believe the application holds immense potential to improve efficiency in healthcare systems and deliver a seamless experience for all users.

THANK YOU

Stay healthy and have a nice day

