BOCK A DOCTOR

USING MERN

By Farha Ansari

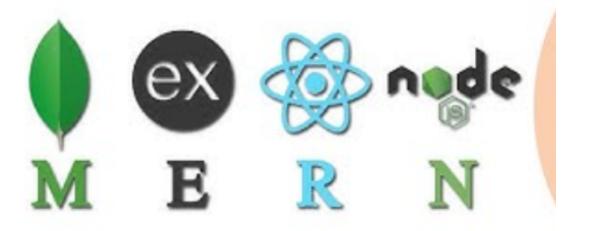
Ankur Jha

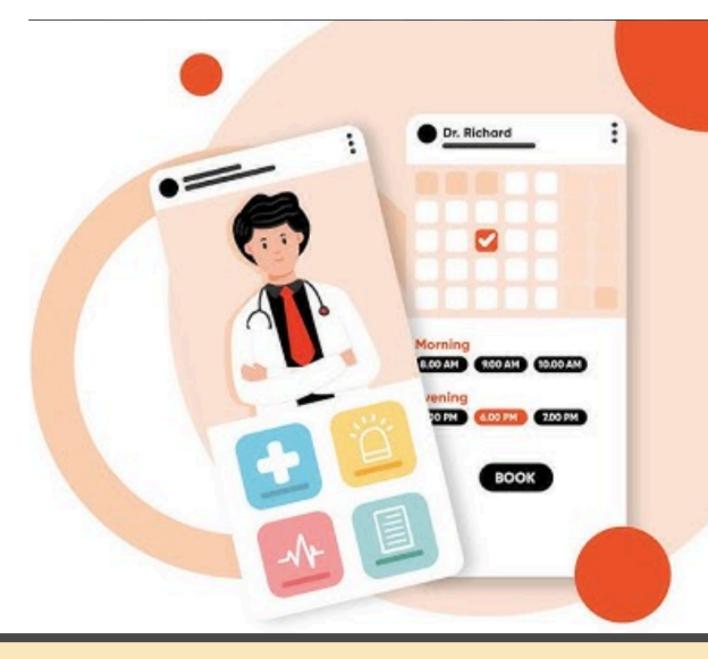
Priyanshu Sharma

Ryan Joseph

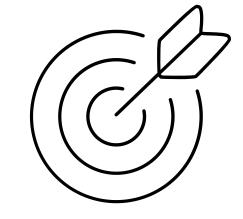
INTRODUCTION

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. With our advanced booking system, you can say goodbye to the hassle of traditional appointment booking. Our platform offers real-time availability, allowing you to choose from a range of open slots that fit your schedule. Whether you prefer early morning, evening, or weekend appointments, we have options to accommodate your needs.



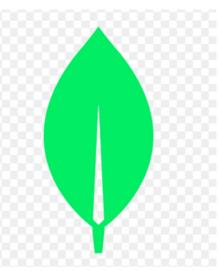


PROJECT GOALS



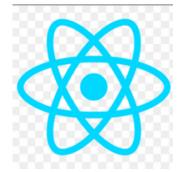
- Simplify Doctor Appointment Booking
- -Allow users to find and book available doctors quickly and easily.
- Role-Based Access
- -Implement different functionalities for patients, doctors, and optionally an admin.
 - Real-Time Availability
 - -Display doctor availability dynamically and prevent booking conflicts.
 - Secure Authentication
 - -Enable secure login and registration using JWT (JSON Web Token).
 - User-Friendly Interface
- -Design a responsive and intuitive UI for a smooth user experience.

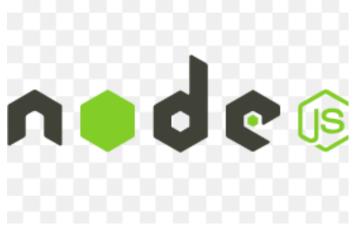
TECHSTACK USED





- MERN Stack Breakdown:
- 1. MongoDB Database
- 2. Express.js Backend framework
- 3. React.js Frontend library
- 4. Node.js Runtime environment
- Other Tools: (e.g., Postman, GitHub, Vercel/Render, Bootstrap/Tailwind)





CORE

FEATURES

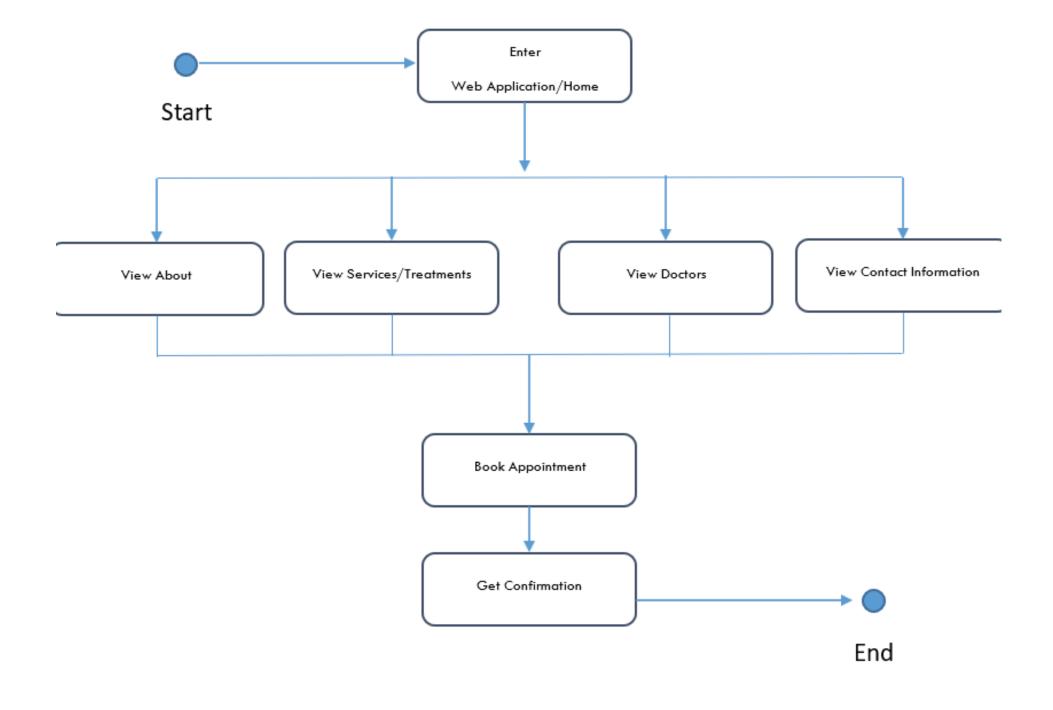
- User Authentication (Login/Signup)
- Book Appointments
- View Available Doctors
- Doctor Dashboard
 (Appointments, Profile)
- Patient Dashboard (History, Cancel Booking)
- Admin Panel (optional)

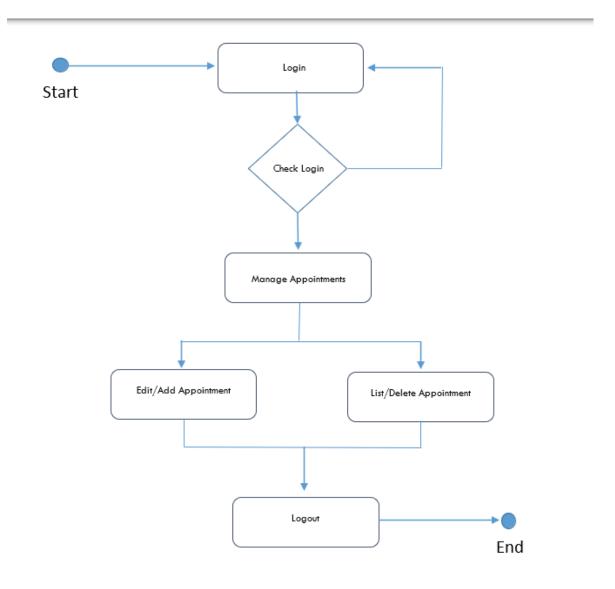


SYSTEM ARCHITECTUR

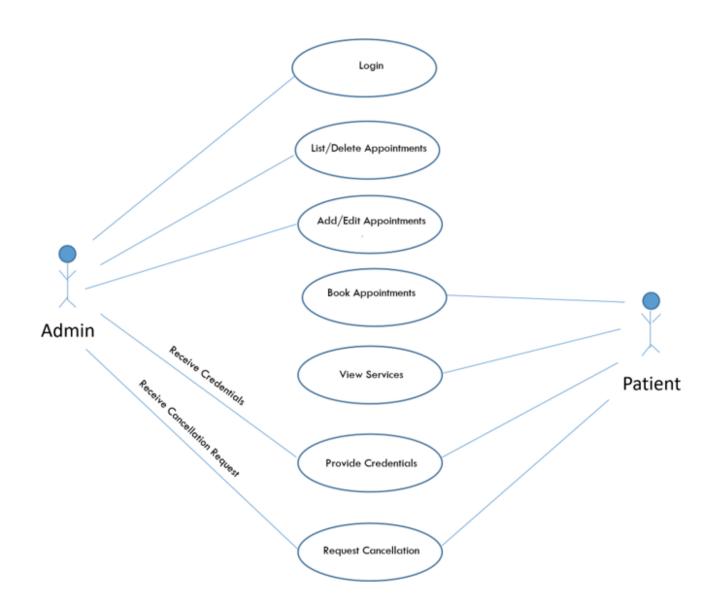
E

HTML, CSS, BOOTSTRAP, JS Web React.JS Express.JS Server Node.JS MongoDB Database



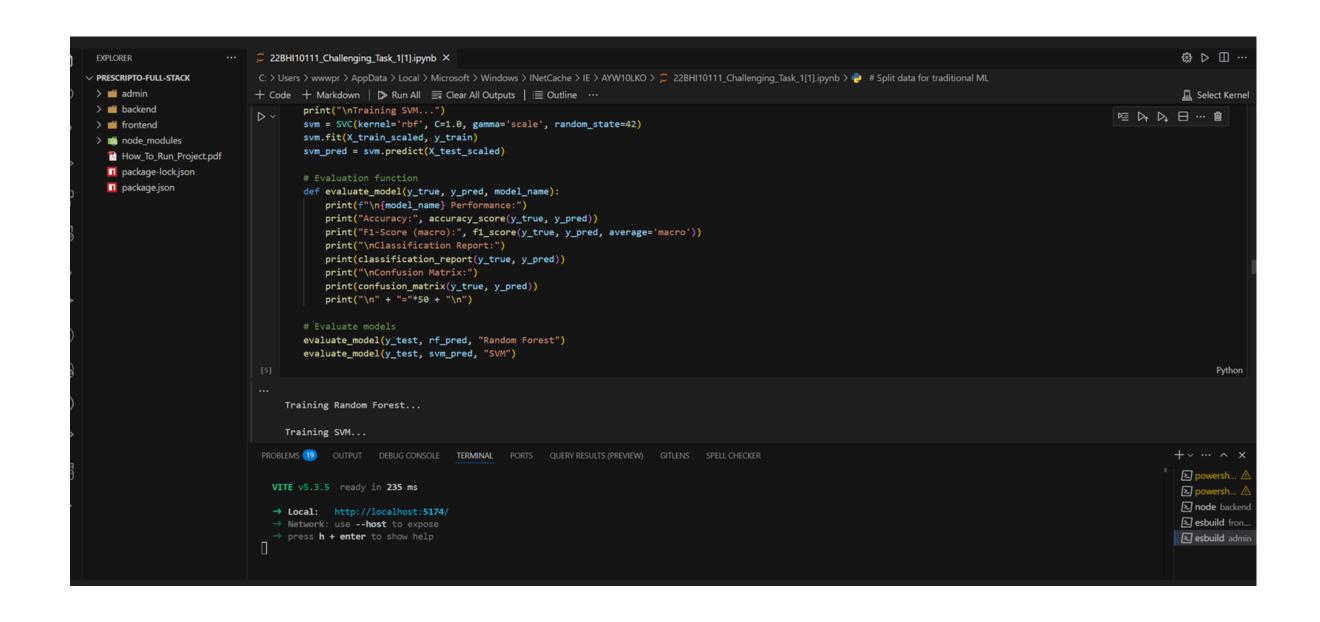


Admin Panel



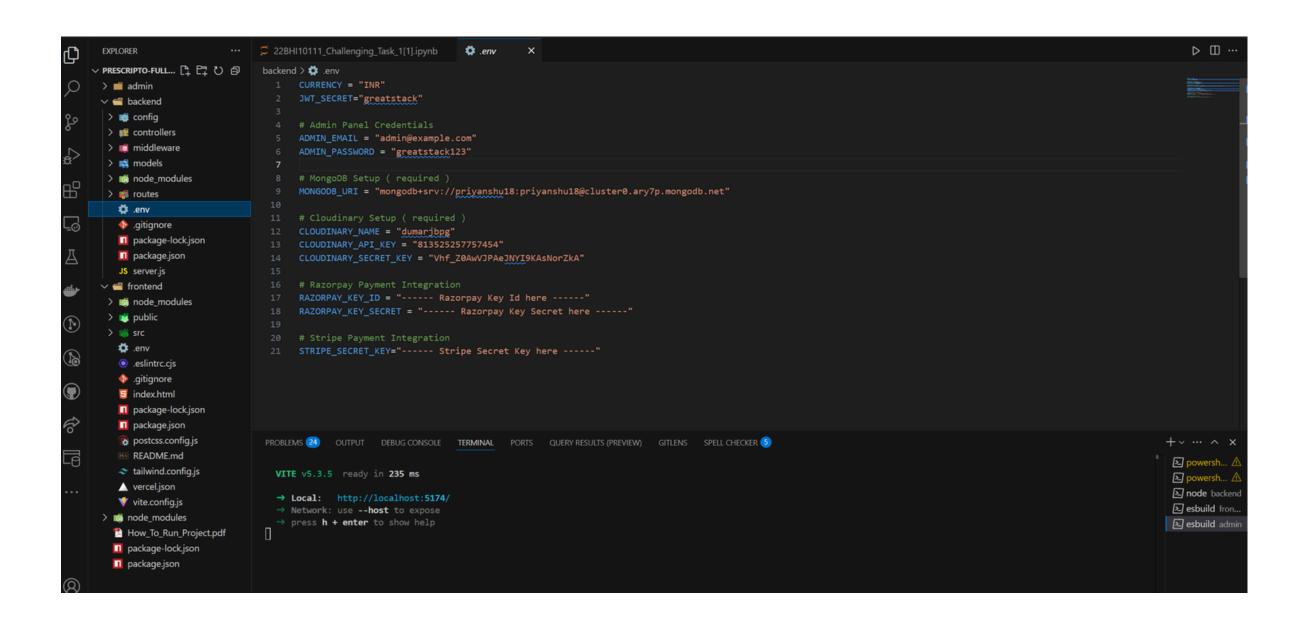
Use Case Diagram

Admin panel



Credentials-Admin

Panel, Mongo DB, CLoudinary, Payment (Razorpay, Stripe)



Database connected

```
EXPLORER
                           ··· 🔲 package.json 🗙
                                                                                                                                                                                                                                   ▶ Ш …
                                   backend > 🔟 package.json > { } scripts > 🕮 dev

∨ PRESCRIPTO-FULL-STACK

                                            "name": "backend",
                                            "main": "server.js",
    How_To_Run_Project.pdf
                                            "type": "module",
   package-lock.json
                                            "scripts": {
                                             "server": "nodemon server.js",
                                            "dev": "nodemon index.js"
                                           },
"author": "",
                                            "license": "ISC",
                                            "description": "",
                                            "dependencies": {
                                            "bcrypt": "^5.1.1",
                                            "cloudinary": "^2.3.0",
"cors": "^2.8.5",
"dotenv": "^16.4.5",
                                             "express": "^4.19.2",
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                                              "mongoose": "^8.5.1",
                                              "multer": "^1.4.5-lts.1",
                                              "razorpay": "^2.9.4",
                                              "stripe": "^16.5.0",
                                              "validator": "^13.12.0"
                                   PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS QUERY RESULTS (PREVIEW) GITLENS SPELL CHECKER
                                                                                                                                                                                                                               powershell
                                                                                                                                                                                                                               powershell..
                                   Run `npm audit` for details.
                                                                                                                                                                                                                               ≥ powershell..
                                   > backend@1.0.0 dev
                                                                                                                                                                                                                               powershell
                                   > nodemon index.js
                                                                                                                                                                                                                               powershell..
                                    [nodemon] 3.1.9
[nodemon] to restart at any time, enter `rs`
[nodemon] watching path(s): *.*
[nodemon] watching extensions: js,mjs,cjs,json
                                                                                                                                                                                                                               ≥ powershell...
                                                                                                                                                                                                                               ≥ powershell...
                                                                                                                                                                                                                               ≥ node backend
                                       demon] starting `node index.js server.js`
                                   Server started on PORT:4000
> OUTLINE
                                   Database Connected
```

FUTURE SCOPE

- Online Payment Integration

 Enable patients to pay consultation fees securely using payment gateways like Razorpay, Stripe, or PayPal.
- Video Consultation Feature
 Allow virtual appointments through video calls for remote or follow-up consultations.
- Automated Reminders
 Send SMS or email reminders for upcoming appointments to reduce no-shows.
- Medical Report Uploads
 Let patients upload and share medical documents or reports with doctors securely.
- Rating & Review System

 Allow patients to rate and review doctors to help others
 make informed choices.

CONCLUSION

• Book a Doctor is a full-stack web application built using the MERN stack that aims to streamline the process of booking medical appointments online. By integrating secure user authentication, dynamic scheduling, and a user-friendly interface, the platform ensures a smooth experience for both patients and doctors. This project not only demonstrates the practical application of modern web technologies but also addresses a real-world need for accessible and efficient healthcare services. Through this journey, I have gained hands-on experience in full-stack development, API integration, and managing real-time data—skills that are essential for building scalable and impactful applications.

THANK YOU