

Prescripto — Project Documentation

1. Introduction

Prescripto is a web-based appointment management system designed to streamline interactions between patients, doctors, and administrators. The platform enables patients to register and conveniently book appointments, doctors to manage bookings and track earnings, and administrators to oversee the entire system with robust CRUD capabilities for doctors, patients, and appointments.

2. Background of the Project

Problem Statement: In many regions, patients still rely on phone calls or in-person visits to book medical appointments, leading to scheduling conflicts, long waiting times, and miscommunication. Doctors and clinics often struggle to manage appointments efficiently, which affects patient satisfaction and operational effectiveness.

Motivation: The motivation behind Prescripto is to modernize the patient-doctor interaction process by providing a digital solution that makes appointment scheduling transparent, accessible, and easy to manage for all stakeholders.

3. Objectives

- Provide an easy-to-use interface for patients to view doctors' availability and book appointments.
 - Enable doctors to manage bookings by accepting or rejecting them.
 - Allow administrators full control over user, doctor, and appointment data.
 - Improve overall efficiency and transparency of the appointment process.
 - Maintain secure and organized patient-doctor communication.
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4. Scope

In Scope:

- Patient registration, login, and booking management.
- Doctor authentication, booking approval/rejection, and earnings tracking.
- Admin CRUD operations for patients, doctors, and appointments.
- Viewing available schedules up to a defined future date.
- Dashboard interfaces for each user role.

Out of Scope:

- In-app payment processing.
 - Telemedicine or live consultation features.
 - Prescription or medical record storage.
 - Integration with external healthcare systems or insurance.
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5. Literature Review / Related Work

Related Systems:

- **Practo:** An online appointment booking system connecting patients with verified doctors.
- **Zocdoc:** Allows patients to book appointments with healthcare providers in real-time.
- **HealthEngine:** A booking platform for patients in Australia.

Relevant Theories:

- User-Centered Design for accessible UX.
 - Role-Based Access Control (RBAC) for secure operations.
 - MVC architectural pattern for scalable web application development.
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6. Methodology

Technologies and Tools:

- **Frontend:** React.js, Bootstrap/Tailwind CSS
- **Backend:** Node.js, Express.js

- **Database:** MongoDB / MySQL (based on team's preference)
- **Version Control:** Git, GitHub
- **Design Tools:** Figma (UI/UX), Lucidchart (UML)

Development Workflow:

1. **Discovery & Planning:** Requirement gathering, user flow design.
 2. **Design:** Wireframing and UI prototyping.
 3. **Development:** Frontend and backend coding with API integration.
 4. **Testing:** Unit testing, integration testing, and bug fixing.
 5. **Deployment:** Hosting on cloud (e.g., Heroku, Vercel).
 6. **Maintenance:** Future updates and user feedback incorporation.
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7. Implementation / Development

How It Was Built:

- **Frontend:** Designed responsive pages for patient, doctor, and admin dashboards.
- **Backend:** Developed RESTful APIs for CRUD operations and authentication.
- **Authentication:** Implemented JWT-based authentication for secure role-based access.
- **Database:** Designed schema for Users, Doctors, Appointments, and Schedules.

Screenshots:

Book Appointment With Trusted Doctors



Simply browse through our extensive list of trusted doctors, schedule your appointment hassle-free.

Book appointment →



Find by Speciality

Simply browse through our extensive list of trusted doctors, schedule your appointment hassle-free.



General physician



Gynecologist



Dermatologist



Pediatricians



Neurologist



Gastroenterologist

Top Doctors to Book

Simply browse through our extensive list of trusted doctors.



Available

Dr. Muhammad Khairul Bashar
General Physician

12 to 15 years experience



Available

Dr. Pangkaj Paul
General Surgery


4 to 5 years experience



Available

Prof. Dr. Mohammad Abdullah Al Mamun
Pediatrics

12 to 13 years experience



Available

Dr. Md. Shahjahan Siddike Shakil
Nephrology

6 to 7 years experience



Available

Prof. Dr. Shamsun Nahar
Gynecology


17 to 18 years experience



Available

Dr. Tahmina Begum
Infectious Disease


7 to 8 years experience



Available

Prof. Dr. Chowdhury
Obstetrics

10 to 11 years experience



Available

Dr. Md. Mosharaf Hossain
Neurosurgery

13 to 14 years experience

Show More Doctors

Book Appointment With 100+ Trusted Doctors

Create account



Browse through the doctors specialist.

General physician

Gynecologist

Dermatologist

Pediatricians

Neurologist

Gastroenterologist



Available

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General Physician

12 to 15 years experience



Available

Dr. Pangkaj Paul
General Surgery

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Available

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Infectious Disease

7 to 8 years experience



Available

Prof. Dr. Chowdhury
Obstetrics

10 to 11 years experience



Available

Dr. Md. Mosharaf Hossain
Neurosurgery

13 to 14 years experience



Available

Asst. Prof. Dr. SMA Alim
Neurosurgery

10 to 11 years experience



Available

Dr. Md. Saiful
Hematology

10 to 11 years experience



Available

Dr. Hasnafi Rabbi
Hematology

10 to 11 years experience



Available

Dr. Md. Rakibul
Cardiology

0 to 1 year experience



Available

Dr. M.A. Sobuj Hayat
Dermatologist

2 to 3 years experience



Available

Dr. Rajesh Kumar
Pediatricians

3 to 4 years experience



Available

Dr. Mohammad Al Mamun
Neurologist

5 to 6 years experience

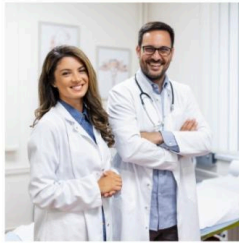


Available

Dr. Mrityunjay
General physician

5 to 6 years experience

ABOUT US



Welcome to Prescripto, your trusted partner in managing your healthcare needs conveniently and efficiently. At Prescripto, we understand the challenges individuals face when it comes to scheduling doctor appointments and managing their health records.

Prescripto is committed to excellence in healthcare technology. We continuously strive to enhance our platform, integrating the latest advancements to improve user experience and deliver superior service. Whether you're booking your first appointment or managing ongoing care, Prescripto is here to support you every step of the way.

Our Vision

Our vision at Prescripto is to create a seamless healthcare experience for every user. We aim to bridge the gap between patients and healthcare providers, making it easier for you to access the care you need, when you need it.

WHY CHOOSE US

EFFICIENCY:

Streamlined appointment scheduling that fits into your busy lifestyle.

CONVENIENCE:

Access to a network of trusted healthcare professionals in your area.

PERSONALIZATION:

Tailored recommendations and reminders to help you stay on top of your health.



Lorem Ipsum is simply dummy text of the printing and typesetting industry. Lorem Ipsum has been the industry's standard dummy text ever since the 1500s, when an unknown printer took a galley of type and scrambled it to make a type specimen book.

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The screenshot shows the 'Add Doctor' form in the Prescripto Admin Panel. The form is titled 'Add Doctor' and includes a sidebar with navigation links: Dashboard, Appointments, Add Doctor (selected), and Doctors List. The form fields are as follows:

- Doctor name:** A text input field.
- Doctor Email:** A text input field.
- Experience:** A dropdown menu with '0 to 1 year' selected.
- Fees:** A text input field.
- Speciality:** A set of buttons: General physician (selected), Gynecologist, Dermatologist, Pediatricians, Neurologist, and Gastroenterologist.
- Degree:** A text input field.
- Address:** Two text input fields labeled 'Address 1' and 'Address 2'.
- About Doctor:** A text area with the placeholder 'Write about doctor'.

A blue 'Add Doctor' button is located at the bottom of the form.

Sample Code Snippet:

```
// Example: Booking an appointment (Express.js)
router.post('/book', authenticatePatient, async (req, res) => {
  const booking = new Appointment({ ...req.body });
  await booking.save();
  res.status(201).send({ message: 'Appointment booked successfully', booking });
});
```

Database Schema:

- **Users Table:** id, name, email, password, role (patient/doctor/admin)
- **Doctors Table:** id, name, specialization, schedule
- **Appointments Table:** id, patient_id, doctor_id, date, time, status

8. Results / Analysis

- Functional web app for patients to register and book appointments.
- Doctors can manage incoming bookings effectively.
- Admin dashboard enables efficient management of the system.
- User roles and permissions working as intended.
- Tested booking flows with positive user feedback.

9. Challenges Faced

- **Dynamic Scheduling:** Designing flexible time slots for varying doctor availability.
- **Role Management:** Implementing robust RBAC to prevent unauthorized access.
- **User Experience:** Ensuring a clean and intuitive interface for different user types.
- **Mitigation:** Held weekly sprints and code reviews; used test cases to catch bugs early.

10. Conclusion

Prescripto simplifies the patient-doctor appointment process by providing a centralized, user-friendly system for all stakeholders. The project demonstrates effective use of modern web technologies, secure authentication, and a clean UX to solve real-world scheduling challenges in healthcare.

11. Future Scope

- Integrate payment gateways for online consultation fees.
- Add telemedicine features for remote appointments.
- Implement notification systems (email/SMS reminders).
- Develop mobile apps for iOS and Android for broader reach.