

Prescripto - Doctor Appointment Web App

Prescripto is a full-stack web application designed to make healthcare more accessible by simplifying the process of booking doctor appointments. It offers three levels of login: **Patient**, **Doctor**, and **Admin**, each with distinct features tailored to their roles. The app integrates **online payment gateways (Stripe and Razorpay)** to facilitate seamless and secure payments. Built using the **MERN stack** (MongoDB, Express.js, React.js, and Node.js), Prescripto provides an efficient, user-friendly experience for both patients and healthcare providers.

Tech Stack

- **Frontend**: React.js
- **Backend**: Node.js, Express.js
- **Database**: MongoDB
- **Payment Gateways**: Stripe, Razorpay
- **Authentication**: JSON Web Token (JWT)

Key Features

1. Three-Level Authentication

- **Patient Login**:
 - Patients can sign up, log in, and book appointments with doctors.
 - Manage appointments (view, cancel, or reschedule).
 - Secure online payment options available (cash, Stripe, Razorpay).
 - User profile with editable information (name, email, address, gender, birthday, profile picture).
- **Doctor Login**:

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- Doctors can log in and manage appointments.
- Dashboard displays earnings, number of patients, number of appointments, and latest bookings.
- Update profile details (description, fees, address, availability status).
- View appointment details (patient info, payment mode, appointment status).

****Admin Login**:**

- Admins can create and manage doctor profiles.
- Dashboard with analytics: total doctors, total appointments, total patients, and recent bookings.
- Add new doctors (image, specialty, degree, experience, address, fees, etc.).
- View and manage all appointments (cancel or mark as completed).

Home Page

- Features a user-friendly layout where users can:
- ****Search for doctors**** based on specialties.
- ****View top doctors**** and their profiles.
- Explore additional sections: About Us, Delivery Information, Privacy Policy, and Get in Touch.
- ****Footer**** includes navigation links: Home, About Us, Delivery Info, Privacy Policy, Contact Us.

All Doctors Page

- Lists all available doctors.
- Users can ****filter doctors by specialty****.
- Clicking on a doctor's profile redirects to the ****Doctor Appointment Page****.

About Page

- Provides information about ****Prescripto's vision**** and mission.
- ****Why Choose Us**** section highlights:
- ****Efficiency****: Streamlined appointment process.
- ****Convenience****: Online booking and payment.

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- **Personalization**: Tailored experience based on user preferences.
- Footer section with additional links.

Contact Page

Contains **office address** and contact details.

- Section to explore job opportunities.
- Footer navigation links.

Doctor Appointment Page

- Displays detailed information about the selected doctor:
- **Profile picture, qualification, experience**, and a brief description.
- **Appointment booking form**: Choose date, time, and payment method.
- Online payment options: **Cash, Stripe, or Razorpay**.
- **Related doctors** section at the bottom.
- Users need to **create an account or log in** before booking an appointment.

User Profile

- Accessible after login.
- Users can view and edit their profile:
- **Upload profile picture**.
- Update **name, email, address, gender, and birthday**.
- View list of upcoming and past appointments.
- **Logout** option available.

Admin Panel

- **Dashboard**:

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- Displays statistics: **Number of doctors**, **appointments**, **patients**, and **latest bookings**.
- Option to **cancel bookings** if needed.
- **Add Doctor**:
 - Form to add a new doctor profile (image, specialty, email, password, degree, address, experience, fees, description).
- **Doctor List**:
 - View all registered doctors with options to edit or delete profiles.
- **Appointments**:
 - List of all appointments including patient name, age, date, time, doctor name, fees.
 - Admin actions: **Cancel** or **Mark as Completed**.

Doctor Dashboard

- **Earnings Overview**:
 - Total earnings from completed appointments.
- **Appointments List**:
 - View detailed list of patient appointments (name, age, date, time, payment mode, status).
 - Actions: **Mark appointment as completed** or **Cancel appointment**.
- **Profile Management**:
 - Doctors can update their **profile information**, including description, fees, address, and availability status.

Payment Integration

- Supports multiple payment methods:
 - **Cash Payment**
 - **Stripe Integration**
 - **Razorpay Integration**
- Ensures a secure and smooth payment experience for users.

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Project Setup

To set up and run this project locally:

1. ****Clone the Repository****:

```
```bash
git clone https://github.com/your-username/prescripto.git cd prescripto
```
```

2. ****Install Dependencies****: ```bash npm install cd client npm install

```
```
```

### 3. **\*\*Environment Variables\*\***:

- Create a `.env` file in the root directory and add the following:

```
```env
MONGO_URI=your_mongodb_connection_string
JWT_SECRET=your_jwt_secret
STRIPE_API_KEY=your_stripe_api_key
RAZORPAY_API_KEY=your_razorpay_api_key
```
```

### 4. **\*\*Run the Application\*\***: ```bash

```
npm run dev
```

```
```
```

Folder Structure

```
```plaintext prescripto/
```

```
|— client/ # Frontend (React.js)
|— server/ # Backend (Node.js, Express.js)
|— models/ # MongoDB Schemas
```

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```
|— controllers/ # API Controllers
|— routes/ # API Routes
|— middleware/ # Authentication and Error Handling
```

```
|— config/ # Configuration Files
|— utils/ # Utility Functions
|— public/ # Static Files
└─ .env # Environment Variables
...

```

## ## Contributing

We welcome contributions! Please feel free to submit issues, fork the repository, and open pull requests.

## ## Acknowledgements

- Thanks to the developers and contributors of MongoDB, Express.js, React.js, Node.js, Stripe, and Razorpay for their fantastic tools and libraries.