

DocSpot: Seamless Appointment Booking for Health

Overview

DocSpot is an intuitive and user-friendly online platform for booking doctor appointments. It streamlines the traditional scheduling process by allowing patients to find doctors, view real-time availability, and manage appointments - all from the comfort of their homes.

Core Features

User Registration & Login - Secure sign-up and login for patients and doctors.

Doctor Browsing & Filtering - Filter doctors based on specialty, availability, and location.

Appointment Booking - Select a doctor, choose a date/time, and upload necessary documents.

Real-time Scheduling - View available slots in real time.

Appointment Confirmation & Notifications - Get automated updates via dashboard alerts.

Appointment Management - Cancel, reschedule, and view upcoming appointments.

Admin Panel - Approve doctor registrations and oversee activity.

Doctor Portal - Manage schedules, confirm appointments, and provide notes.

Follow-up System - View visit summaries, prescriptions, and further instructions.

Scenario-Based Case Study

John signs up, logs in, and filters doctors. He books an appointment with Dr. Smith. The appointment is confirmed and added to his dashboard. John visits Dr. Smith and receives medical advice. Afterward, he receives a follow-up summary and instructions through the platform.

Technical Architecture

Frontend:

- React.js with Bootstrap and Material-UI for responsive UI.
- Axios for HTTP requests and API communication.
- Moment.js for date/time handling.

Backend:

- Node.js with Express.js for API handling and server logic.

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- MongoDB for storing user data and appointment records.
- RESTful APIs enable seamless frontend-backend communication.

Architecture Overview

Frontend (React.js + Axios + UI Libraries)

<-> (REST APIs)

Backend (Express.js + Node.js)

<->

Database (MongoDB)