### **Final Project Report - DocSpot**

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Team ID: LTVIP2025TMID52473

Project Title: DocSpot - Seamless Appointment Booking System

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Maximum Marks: --

#### 1. Problem Statement

Patients face difficulties while booking appointments with doctors due to:

- Lack of real-time availability
- Long wait times
- Manual scheduling errors
- No reminders or follow-ups

Clinics struggle with:

- Overbooking or double-booking
- Tracking patient schedules
- Maintaining manual records

### 2. Objective

To build a full-stack web application that enables:

- Patients to book, view, and manage appointments online
- Doctors to manage their schedules
- Admins to oversee and control user access and records
- Notifications/reminders for both parties

## 3. Target Users

- General patients seeking timely appointments
- Clinics or hospitals needing better scheduling systems
- Receptionists and admins managing appointments

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#### 4. Modules of the Project

#### Patient Module:

- Register/Login
- View doctor availability
- Book/reschedule/cancel appointments
- Receive notifications

#### **Doctor Module:**

- Manage calendar/schedule
- Approve/reject appointments
- View patient queue

#### Admin Module:

- Add/edit/delete doctors
- Manage users
- Monitor system usage

### 5. Technology Stack

Frontend: HTML, CSS, JavaScript, React.js

Backend: Node.js / Express.js Database: MongoDB / MySQL Notifications: Twilio / EmailJS

Hosting: Render / Vercel / Netlify / Heroku

## 6. Empathy Map Summary

Thinks: "I don't want to wait for hours."

Sees: Overcrowded hospitals

Says: "Why can't I book online?"

Hears: Complaints about missed appointments

Feels: Frustrated, anxious

Needs: Real-time, digital booking system

## 7. Wireframes and UI Snapshots

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Include screenshots of Home Page, Doctor Dashboard, Appointment Form, and Admin Panel.

### 8. Implementation Plan

Phase 1: Requirement analysis & planning

Phase 2: Database schema & backend APIs

Phase 3: Frontend development (UI/UX)

Phase 4: Integration & Testing

Phase 5: Deployment & User Feedback

#### 9. Testing & Validation

- Unit tests for APIs
- Manual UI/UX testing
- Feedback from real users (if applicable)

#### 10. Expected Outcomes

- Reduced waiting time for patients
- Increased appointment accuracy
- Better doctor-patient communication
- Efficient clinic workflow

#### 11. Conclusion

DocSpot aims to bridge the gap between doctors and patients through an intuitive, reliable appointment booking system. It minimizes human error, enhances communication, and ensures smoother healthcare access.

#### 12. References

- https://miro.com/templates/empathy-map/
- https://www.mural.co/templates/brainstorm-and-idea-prioritization
- https://www.smartinternz.com/