

# Frontend Documentation – Hospital Management System

## 1. Problem Statement

Hospitals need a digital system to manage patients, doctors, appointments, billing, and records. The frontend must be **responsive, role-based (Patient/Doctor/Admin), and secure** with JWT authentication.

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## 2. Figma Reference

👉 [Figma Wireframes / UI Mockups](#)

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## 3. Tech Stack

- **Angular 19 (Standalone)** – Frontend framework
  - **Bootstrap** – Responsive UI
  - **TypeScript** – Core language
  - **RxJS** – State & async handling
  - **JWT** – Authentication
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## 4. Core Workflows

### Patient

- Register/Login (JWT)

- Book appointment
- Receive notifications
- Pay bills (online/offline)
- View medical history & prescriptions

## Doctor

- Login → Dashboard
- View appointments
- Update diagnosis/prescriptions
- Track patient history

## Admin

- Manage doctors, departments, patients
- Room allocation
- Billing & insurance claims
- Audit logs & reports

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## 5. Project Structure (Simplified)

/src/app

/core	→ services, guards, interceptors
/shared	→ reusable UI components
/patient	→ patient dashboard & features
/doctor	→ doctor dashboard & features
/admin	→ admin dashboard & features
routes.ts	→ app routes
app.component.ts	

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## 6. Best Practices

- Use **standalone components** .
  - Apply **role-based route guards** (Patient/Doctor/Admin).
  - Use **Reactive Forms** with validation.
  - Implement **pagination** for large lists.
  - Store tokens securely (prefer HttpOnly cookies).
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## 7. Outcome

By the end, you get a **production-ready Hospital Management System frontend** with:

- Secure login (JWT)
- Role-based dashboards
- Online appointment booking
- Billing & payment history
- Medical record access
- Admin controls with audit logs

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localhost:4200

## Hospital Management System

Home Appointment Services About Us Contact Us Sign In Register

# We help people to get appointment in online

Lorem Media is a full-service social media agency. We offer businesses innovative solutions that deliver the right type of audience to you in the most effective strategies possible. We strive to develop a community around your business, polishing your branding and improving your public relations.

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## Biography

### Who We Are

Lorem Media is a full-service social media agency. We offer businesses innovative solutions that deliver the right type of audience to you in the most effective strategies possible. We strive to develop a community around your business, polishing your branding and improving your public relations.

Social Media is now one of the most powerful marketing tools with the ability to communicate with a target audience in real time.

It's 2019: time to sink or swim.

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Send us a message

First Name

Last Name

Mobile Number

Email

Message

Send

**Hospital Management System**

**Quick Links**

- Home
- Appointment
- Service
- About Us
- Contact Us

**Hours**

- Monday: 9:00 - 18:00
- Tuesday: 9:00 - 18:00
- Wednesday: 9:00 - 18:00
- Thursday: 9:00 - 18:00
- Friday: 9:00 - 18:00

**Contact**

- 000-000-0000
- huzaifaemail.com
- Saket, Delhi

localhost:4200/login

**Hospital Management System**

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**Login**

Email

huzaifa.ansari@gmail.com

Password

\*\*\*\*\*

Login

Signup

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### Signup

Name

Email

Password

Role

Signup

Login

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## Patient Dashboard

Welcome, Huzaifa Patient2!

This is the patient dashboard.

### Upcoming Appointments

**Doctor:** Dr. Huzaifa Ansari  
**Date:** Sep 2, 2025, 10:00:00 AM  
**Location:** Saket, Delhi  
**Status:** PENDING  
**Notes:** Routine checkup for Huzaifa Patient2

**Doctor:** Dr. Huzaifa Ansari  
**Date:** Sep 3, 2025, 2:00:00 PM  
**Location:** Saket, Delhi  
**Status:** PENDING  
**Notes:** Follow-up for Huzaifa Patient2

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Home Appointment Services About Us Contact Us Logout

## Doctor Dashboard

Welcome, Dr. Huzaifa Ansari!

This is the doctor dashboard.

### All Appointments

**Patient:** Huzaifa Patient2  
**Date:** Sep 2, 2025, 10:00:00 AM  
**Location:** Saket, Delhi  
**Status:** PENDING  
**Notes:** Routine checkup

**Mark as Resolved**

**Patient:** Huzaifa Patient2  
**Date:** Sep 3, 2025, 2:00:00 PM  
**Location:** Saket, Delhi  
**Status:** PENDING  
**Notes:** Follow-up

**Mark as Resolved**

**Patient:** Huzaifa Patient2  
**Date:** Sep 5, 2025, 9:00:00 AM  
**Location:** Saket, Delhi  
**Status:** PENDING

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### Admin Dashboard

Welcome, Admin!

This is the admin dashboard.

#### All Doctors

**Name:** Dr. Huzaifa Ansari  
**Location:** Saket, Delhi  
**Specialty:** Cardiology

**Name:** Dr. Priya Sharma  
**Location:** Connaught Place, Delhi  
**Specialty:** Neurology

**Name:** Dr. Amit Verma  
**Location:** Saket, Delhi  
**Specialty:** Orthopedics

#### Doctors in Delhi

**Name:** Dr. Huzaifa Ansari  
**Location:** Saket, Delhi  
**Specialty:** Cardiology

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localhost:4200/admin

**Location:** Saket, Delhi  
**Specialty:** Cardiology

**Name:** Dr. Amit Verma  
**Location:** Saket, Delhi  
**Specialty:** Orthopedics

**All Patients**

**Name:** Huzaifa Patient2  
**Location:** Saket, Delhi

**Name:** Ravi Kumar  
**Location:** Lajpat Nagar, Delhi

**All Appointments**

**Patient:** Huzaifa Patient2  
**Doctor:** Dr. Huzaifa Ansari  
**Date:** Sep 2, 2025, 10:00:00 AM  
**Status:** PENDING

**Patient:** Ravi Kumar  
**Doctor:** Dr. Priya Sharma  
**Date:** Sep 3, 2025, 2:00:00 PM  
**Status:** PENDING

**All Billings**

HmsFrontendCapstone

localhost:4200/admin

**Name:** Huzaifa Patient2  
**Location:** Saket, Delhi

**Name:** Ravi Kumar  
**Location:** Lajpat Nagar, Delhi

**All Appointments**

**Patient:** Huzaifa Patient2  
**Doctor:** Dr. Huzaifa Ansari  
**Date:** Sep 2, 2025, 10:00:00 AM  
**Status:** PENDING

**Patient:** Ravi Kumar  
**Doctor:** Dr. Priya Sharma  
**Date:** Sep 3, 2025, 2:00:00 PM  
**Status:** PENDING

**All Billings**

**Patient:** Huzaifa Patient2  
**Total:** ₹150.00  
**Status:** PENDING

**Patient:** Ravi Kumar  
**Total:** ₹200.00  
**Status:** PAID