



HEALTHCARE APPOINTMENT & PATIENT MANAGEMENT SYSTEM

◆ 1 Authentication Flow

➤ User Opens App

User directly sees:

- Login Screen
 - Register Option
-



Register Flow

User enters:

- Name
- Email
- Password
- Phone Number
- Role Selection:
 - Patient
 - Doctor
 - Admin

On successful registration:

- Role is stored in database
 - Redirect to respective Role-Based Dashboard
-



Login Flow

User enters:

- Email
- Password

System:

- Validates credentials
 - Fetches role from database
 - Redirects to respective dashboard
-

2 Role-Based Navigation Flow

After login:

- If role == Patient → Patient Dashboard
- If role == Doctor → Doctor Dashboard
- If role == Admin → Admin Dashboard

Role-based access control is applied throughout the app.




PATIENT FLOW

Patient Dashboard Features

- View Doctors
 - Check Availability
 - Book Appointment
 - View Appointments
 - Medical Records
 - Notifications
 - Edit Profile
-

Appointment Booking Flow

1. Patient selects doctor

2. System shows available slots
3. Patient selects date & time
4. Adds reason for visit
5. Selects urgency level:
 -  Serious
 -  Infectious
 -  General
6. Confirms booking

System:

- Saves appointment
 - Notifies doctor
 - Notifies admin
-

Medical Records Flow

Patient can:

- Upload medical record files (PDF/Image)
 - View previous prescriptions
 - View consultation history
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Notification Flow (Patient)

Patient receives notifications when:

- Appointment accepted
- Appointment declined
- Doctor sends reminder
- Admin updates

Patient can also:

- Send reminder to doctor before appointment
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DOCTOR FLOW



Doctor Dashboard Features

- View Today's Appointments
 - Manage Slots
 - Notifications
 - Start Consultation
 - Edit Profile
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Slot Management Flow

Doctor can:

- Add available slots
 - Edit time slots
 - Delete slots
 - Mark unavailable days
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Appointment Handling Flow

Doctor receives booking request with urgency indicator:

-  Serious
-  Infectious
-  General

Doctor can:

- Accept appointment
- Decline appointment
- Start consultation
- Send reminder to patient

System:

- Updates appointment status
 - Notifies patient
 - Notifies admin
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ADMIN FLOW



Admin Dashboard Features

Admin has full system access:

- View all users
- Manage roles
- Approve/reject doctors
- Monitor all appointments
- Modify permissions
- Delete users
- View reports

Admin has complete control over system-level operations.



ROLE-BASED ACCESS CONTROL LOGIC

Patient:

- Can book appointments
- Can upload records
- Cannot create slots

Doctor:

- Can create/manage slots
- Can accept/decline appointments
- Cannot book appointments

Admin:

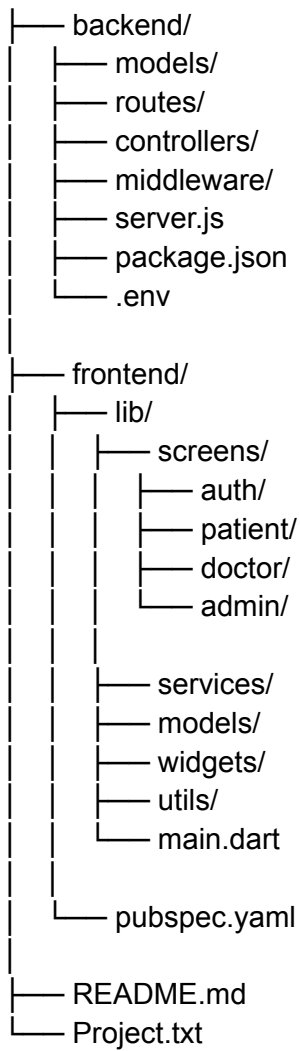
- Full access to all modules
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FOLDER STRUCTURE (Flutter)

Healthcare-Appointment-And-Patient-Management-System/

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COMPLETE SYSTEM FLOW SUMMARY

Login / Register



Role Identification



Role-Based Dashboard



Role-Based Feature Access



Appointment Lifecycle:

Requested → Accepted/Declined → Consultation → Completed