

# CareWell

## A Comprehensive Hospital Management System

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### 🔗 Project Links

- 🌐 [CareWell Live](#)
- Swagger [API Documentation \(Postman\)](#)
- 📦 [Submission Repository \(GitHub\)](#)
- ❖ [ER Diagram \(PDF\)](#)
- 📄 [Theoretical Documentation \(PRD\)](#)
- 🔗 [Workflow Management \(Asana\)](#)

### Table of Contents

- 1. Introduction**
- 2. System Overview**
  - Objectives & Scope
  - Key Assumptions
- 3. Architecture & Data Model**
  - Technology Stack
  - ER Diagram
- 4. Functional Features**
  - User Roles & Permissions
  - Patient Management
  - Appointment & Scheduling
  - Diagnostics & Reporting
- 5. REST API Reference**
  - Authentication & User Management
  - Appointment Endpoints
  - Room Management
  - Doctor APIs
  - Test & Result APIs
  - Miscellaneous Services
- 6. Appendix**

Screenshots

## 1. Executive Summary

CareWell is a modular, role-based hospital management platform designed to handle operations across **Front Desk, Data Entry, Medical, and Administrative** teams. It **centralizes patient data**, automates **scheduling**, integrates **diagnostics**, and provides analytics dashboards to support decision-making and improve patient care.

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## 2. System Overview

### 2.1 Objectives & Scope

- Provide a unified interface for patient registration, appointment booking, admissions, diagnostics, and discharge.
- Ensure data integrity, security, and role-based access controls.
- Offer real-time analytics and reporting to administrators and clinicians.

### 2.2 Key Assumptions

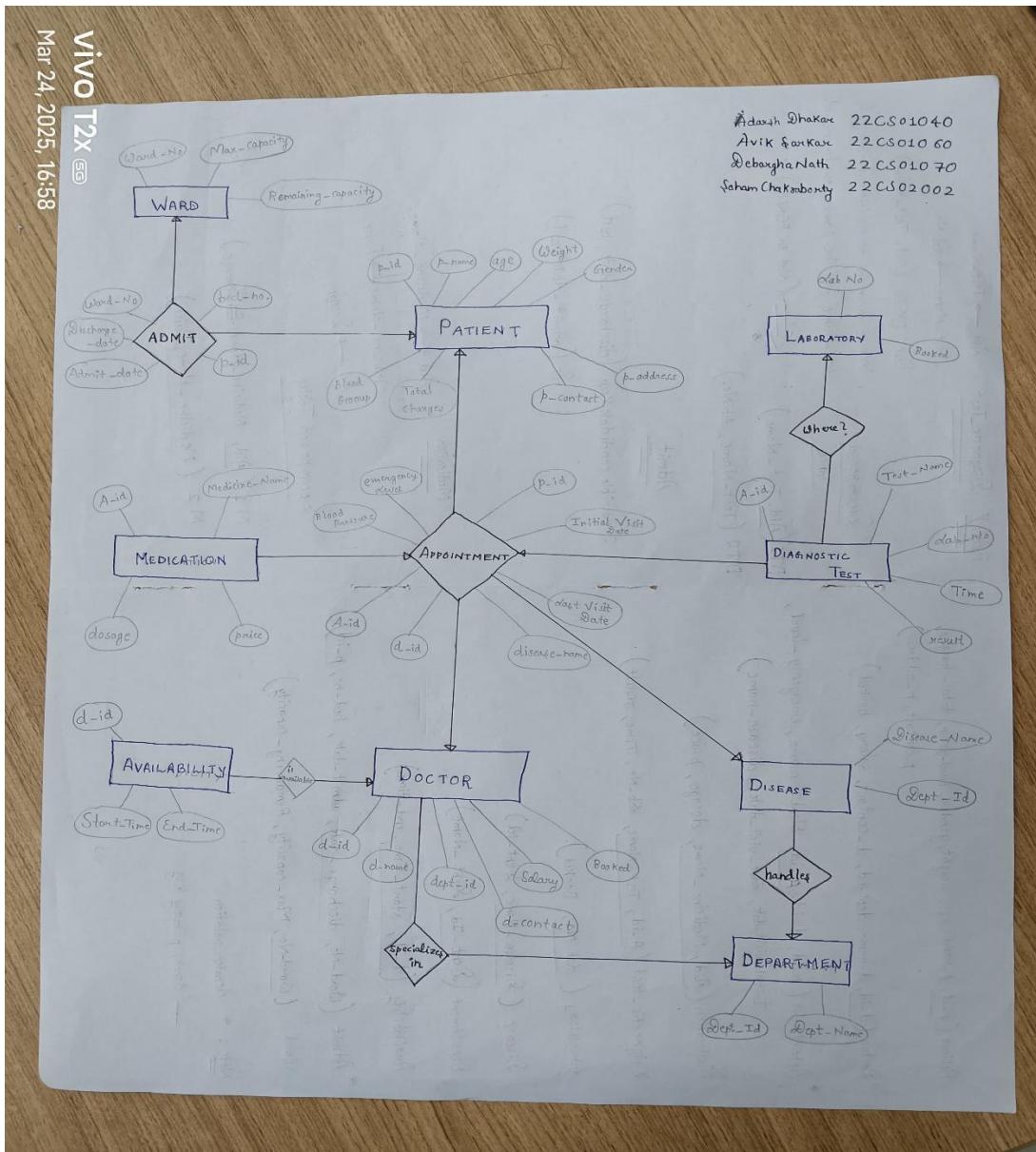
- **User Activity:** Tracks lastLogin; inactive after 30 days. Auto-login if dashboard revisited within session.
  - **Appointment Types:** Emergency (e.g., Cardiac Arrest), Medium (e.g., Skin Conditions), Normal (e.g., Fever).
  - **Ward Types:** General, ICU, Emergency, Pediatrics, Maternity, Surgical.
  - **Notes & History:** Stored as semicolon-separated entries.
  - **Lab Scheduling:** Fixed-duration slots (5 labs × 30 min).
  - **Doctor Scheduling:** One-hour appointment slots.
-

### 3. Architecture & Data Model

#### 3.1 Technology Stack

Layer	Technology
Backend	Node.js, Express.js
Database	Supabase (PostgreSQL)
Frontend	React.js, Tailwind CSS
Auth & Security	JWT, bcrypt
Storage & Files	Multer, Cloudinary
Messaging	Twilio (SMS), Nodemailer (Email)

#### 3.2 ER Diagram



## 4. Functional Features

### 4.1 User Roles & Permissions

- **Admin:** Full system analytics, user management
- **Front-Desk Operator:** Patient registration, appointment booking, admissions/discharges
- **Data-Entry Operator:** Test results entry, medication prescription logging
- **Doctor:** View patient history, prescribe treatment, consult diagnostics

### 4.2 Patient Management

- Register new patients with Aadhaar verification
- Update demographics, contact, and insurance details
- Discharge workflows with billing integration

### 4.3 Appointment & Scheduling

- Book, view, modify, and cancel appointments
- Auto-assign doctors and labs based on availability
- Support for emergency, medium, and routine visits

### 4.4 Diagnostics & Reporting

- Schedule and record tests: Blood, X-Ray, MRI, CT, ECG, Ultrasound, Urine
- Store parameters (e.g., Hemoglobin, WBC count) with units
- Radiologist notes, image uploads, and sequence metadata

### 4.5 Billing & Notifications

- Generate invoices upon discharge or service completion
  - Send SMS/email reminders for upcoming appointments or test results
-

## 5. REST API Reference

### 5.1 Authentication & User Management

Method	Endpoint	Description
POST	/api/authorization/login	User login
GET	/api/authorization/getdetails	Fetch current user details
GET	/api/authorization/checkaadhaar	Verify Aadhaar availability
POST	/api/authorization/signup	New user signup
PUT	/api/authorization/addusers	Admin adds new user
GET	/api/authorization/showusers	List all users
DELETE	/api/authorization/deleteusers	Remove a user
PUT	/api/authorization/submit-password	Password reset
PUT	/api/authorization/logout	Logout

---

### 5.2 Appointment Endpoints

Method	Endpoint	Description
POST	/api/appointments/book	Book an appointment
GET	/api/appointments/getappointments	Fetch all appointments
GET	/api/appointments/:id	Get appointment by ID
DELETE	/api/appointments/:id/cancel	Cancel an appointment
GET	/api/appointments/getdoctors	Get list of available doctors

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### 5.3 Room Management

Method	Endpoint	Description
POST	/api/rooms/admitpatients	Admit a patient to a room
PUT	/api/rooms/dischargepatient	Discharge a patient
GET	/api/rooms/allrooms	Get list of all rooms
GET	/api/rooms/admissions	Get list of current admissions

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## 5.4 Doctor APIs

Method	Endpoint	Description
GET	/api/doctor/{doctorId}/appointments	Get doctor's appointments
GET	/api/doctor/{doctorId}/patient/{patientId}	Get specific patient details for doctor
GET	/api/doctor/{doctorId}/patient	Get all patients under a doctor

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## 5.5 Test & Result APIs

Method	Endpoint	Description
POST	/api/test/add	Add new test entry
POST	/api/test/schedule	Schedule a lab test
GET	/api/test/{patientId}/{testId}	Get test result by patient and test ID
POST	/api/doctor/{doctorId}/patient/{patientId}/prescription	Add prescription for a patient by a doctor

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## 5.6 Miscellaneous Services

Method	Endpoint	Description
POST	/upload	File uploads
POST	/mailer	Email notifications
GET	/test	Health check
GET	/api/patient/showpatients	List all patients

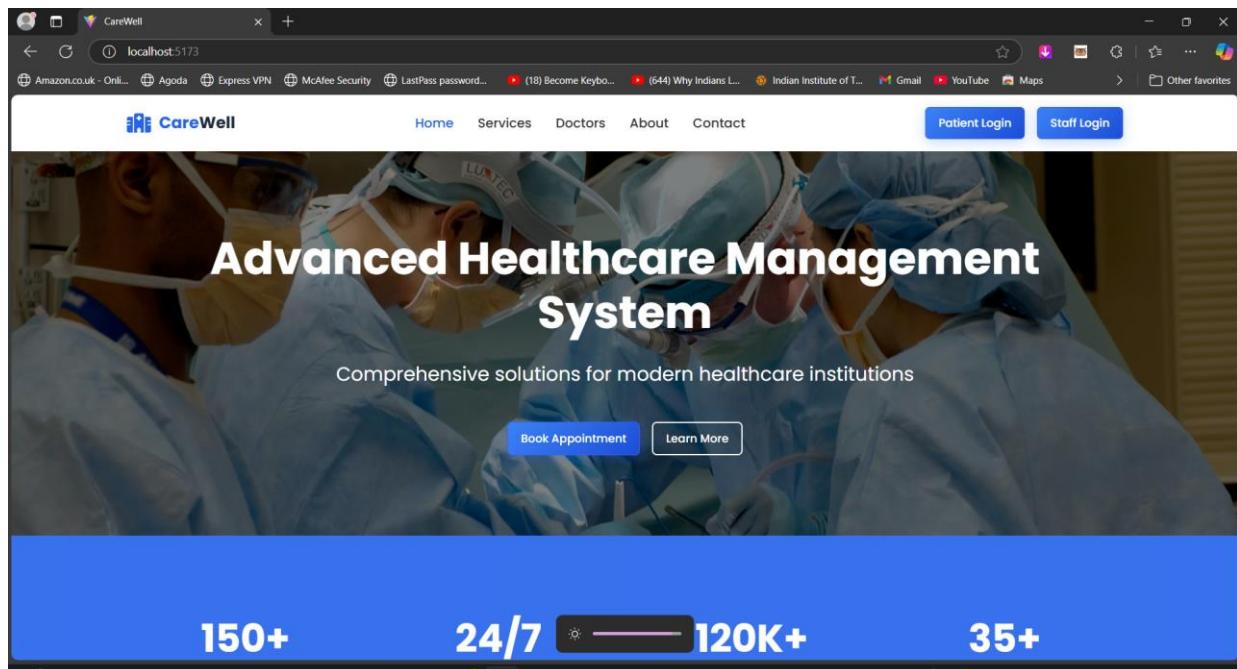
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## 6. Collaborators

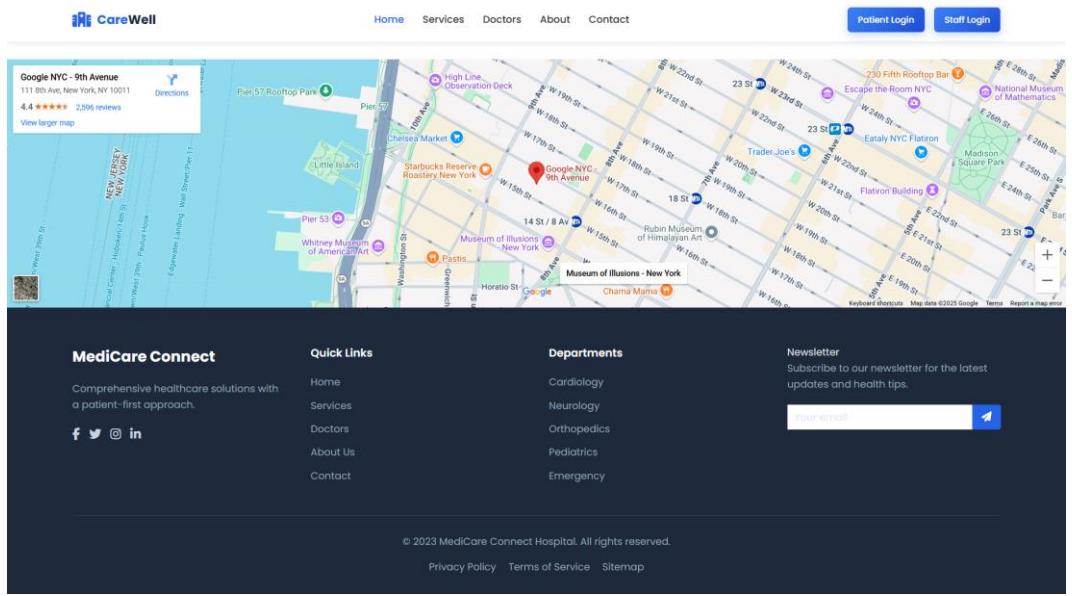
- Adarsh Dhakar (22CS01040)
  - Avik Sarkar (22CS01060)
  - Debargha Nath (22CS01070)
  - Soham Chakraborty (22CS02002)
-

## 7. Appendix

### 7.1 Screenshots



A screenshot of the CareWell contact us page. The page has a header with the CareWell logo, navigation links for Home, Services, Doctors, About, Contact, and two login buttons for Patient Login and Staff Login. Below the header is a section titled "Contact Us" with the sub-instruction "Get in touch with our team for any inquiries or assistance". On the left side, there are input fields for "Your Name" (containing "John Doe"), "Email Address" (containing "your@email.com"), "Subject" (containing "What's your question about?"), and "Message" (containing "Your message..."). In the center, there is a "Hospital Information" section with "Address" (123 Medical Plaza, Downtown, New York, NY 10001, USA), "Phone" numbers (+1 (212) 555-1234 (General) and +1 (212) 555-5678 (Emergency)), "Email" addresses (info@medicareconnect.com and support@medicareconnect.com), and "Working Hours" (Monday - Friday: 8:00 AM - 8:00 PM, Saturday: 9:00 AM - 5:00 PM, Sunday: Emergency Only). On the right side, there is a "Follow Us" section with social media icons for Facebook, Twitter, YouTube, Instagram, and LinkedIn. A blue "Send Message" button is located at the bottom of the form area.



## Login Page:

The login page has a blue header with the CareWell logo. The main section features a "Welcome to CareWell Hospital" heading, a subtext about secure access for authorized personnel, and an illustration of a doctor examining a patient. To the right, there's a "Staff Login" form with fields for Email Address, Password, and Remember me, along with a Sign In button and a link for forgot password.

## Admin:

The admin dashboard has a blue header with the CareWell Admin logo and a user profile. The main area is titled "User Management" and includes a "Hospital Dashboard" section with a video feed of an operating room and the text "Overview of hospital operations and statistics". Below are three cards: "Total Patients 56", "Future Appointments 7", and "Available Doctors 2". The "Recent Activities" section shows two entries: "New patient registered" (Aadarsh) and "Appointment scheduled" (Dr.Soham). A "Upcoming" link is visible next to the appointment card.

**CareWell Admin**

User Management

Total Users **39**

Active Today **1**

Doctors **11**

New This Month **21**

Add New User

Front Desk Operator

Search users...

USER	ROLE	ACTIONS
Avik aviksarkar2003sayam@gmail.com	fdo	<input type="checkbox"/> <input type="button" value="Edit"/>
Karan Singh karansingh@example.com	fdo	<input type="checkbox"/> <input type="button" value="Edit"/>
Ananya Iyer ananyaiyer@example.com	fdo	<input type="checkbox"/> <input type="button" value="Edit"/>
Priya Verma priyaverma@example.com	fdo	<input type="checkbox"/> <input type="button" value="Edit"/>

Showing 1 to 4 of 4 users

## Add User

**CareWell Admin**

User Management

Total Users **39**

Active Today **1**

Doctors **11**

Add New User

Front Desk

USER	ROLE
Avik aviksarkar2003sayam@gmail.com	fdo
Karan Singh karansingh@example.com	fdo
Ananya Iyer ananyaiyer@example.com	fdo
Priya Verma priyaverma@example.com	fdo

Showing 1 to 4 of 4 users

**Add New User**

Full Name: Adorsh

Email: adarshdhakar255@gmail.com

Role: Doctor

Department: Oncology

Mobile Phone: +91 83838-38838

## Delete User

**CareWell Admin**

User Management

Total Users **40**

Active Today **1**

Doctors **10**

New This Month **21**

Confirm Deletion

Are you sure you want to delete Rohan Mehta? This action cannot be undone.

USER	ROLE	ACTIONS
Rohan Mehta rohanmehta@example.com	doctor	<input type="checkbox"/> <input type="button" value="Edit"/>
Vikram Reddy vikramreddy@example.com	doctor	<input type="checkbox"/> <input type="button" value="Edit"/>
Monish Joshi monishjoshi@example.com	doctor	<input type="checkbox"/> <input type="button" value="Edit"/>
Rahul Das rahuldas@example.com	doctor	<input type="checkbox"/> <input type="button" value="Edit"/>
Pooja Sinha poojasinha@example.com	doctor	<input type="checkbox"/> <input type="button" value="Edit"/>

# Front-Desk Operator:

**CareWell**

## Front Desk Operator Dashboard

Priya Verma, Front Desk Operator

- Dashboard
- Room Management
- Patient Registration
- Book An Appointment
- Admit-Discharge
- Test Scheduling

Today's Admissions: 2 (0 Discharged Today)

Appointments: 7 (0 emergencies)

Available Beds: 110/280 (10 ICU available)

Pending Tests: 17 (5 delayed results)

### Patient Management

- Patient Registration
- Schedule Appointment
- Admit / Discharge
- Schedule Test

#### Upcoming Appointments

Patient	Doctor	Date	Time	Type	Status	Department
Soham	Soham	2025-04-21	12:00:00	Consultation	Confirmed	Unknown
Adarsh Dhakar	Vikram Reddy	2025-04-30	12:00:00	Consultation	Confirmed	Unknown
Adarsh Dhakar	Aarav Sharma	2025-10-03	12:00:00	Consultation	Confirmed	Unknown
adarshdhakar	Avik Sarkar	2025-10-03	12:00:00	Follow-up	Confirmed	Unknown
Adarsh Dhakar	Aarav Sharma	2025-10-03	13:00:00	Consultation	Confirmed	Unknown

**Need Help?**  
Contact IT Support at ext. 4387 or support@corewell.org

**CareWell**

## Front Desk Operator Dashboard

Priya Verma, Front Desk Operator

- Dashboard
- Room Management
- Patient Registration
- Book An Appointment
- Admit-Discharge
- Test Scheduling

Today's Admissions: 2 (0 Discharged Today)

All Appointments

Patient	Doctor	Date	Time	Type	Status	Department
Sneha Mehta	Avik Sarkar	2025-04-07	12:00:00	Consultation	Confirmed	Unknown
Adarsh Dhakar	Vikram Reddy	2025-04-19	12:00:00	Consultation	Confirmed	Unknown
Sneha Mehta	Rohan Mehta	2025-04-19	12:00:00	Consultation	Confirmed	Unknown
Adarsh Dhakar	Vikram Reddy	2025-04-19	13:00:00	Consultation	Confirmed	Unknown
Soham	Soham	2025-04-21	12:00:00	Consultation	Confirmed	Unknown
Adarsh Dhakar	Vikram Reddy	2025-04-30	12:00:00	Consultation	Confirmed	Unknown
Soham	Adarsh Dhakar	2025-10-03	12:00:00	Consultation	Confirmed	Unknown
Adarsh Dhakar	Adarsh Dhakar	2025-10-03	13:00:00	Consultation	Confirmed	Unknown
Adarsh Dhakar	Sneha Mehta	2025-10-03	14:00:00	Consultation	Confirmed	Unknown
Adarsh Dhakar	Aarav Sharma	2025-10-03	15:00:00	Consultation	Confirmed	Unknown
Adarsh Dhakar	Aarav Sharma	2025-10-03	13:00:00	Consultation	Confirmed	Unknown

Pending Tests: 17 (5 delayed results)

Schedule Test

**Need Help?**  
Contact IT Support at ext. 4387 or support@corewell.org

**CareWell**

## Front Desk Operator Dashboard

Priya Verma, Front Desk Operator

- Dashboard
- Room Management
- Patient Registration
- Book An Appointment
- Admit-Discharge
- Test Scheduling

Today's Admissions: 2 (0 Discharged Today)

Appointments: 7 (0 emergencies)

Available Beds: 110/280 (10 ICU available)

Pending Tests: 17 (5 delayed results)

### Recent Admits - Discharges

Adarsh Dhakar	Discharged
Ward W1 --> Bed 1 Vikram Reddy (Orthopedics)	Discharged
Adarsh Dhakar	Discharged
Ward W4 --> Bed 1 Avik Sarkar (Cardiology)	Discharged
Adarsh Dhakar	Discharged
Ward W1 --> Bed 2 Rohan Mehta (Dermatology)	Discharged
Rohan Verma	Discharged
Ward W2 --> Bed 0 Manish Joshi (Dermatology)	Discharged

### Room Availability

Occupied Beds: 170/280 (61%)

Emergency Special Care	5/20	Pediatrics Children's Care	20/50
Maternity Mother & Baby	10/20	Surgical Surgical Care	10/30
General Standard Care	64/150	ICU Critical Care	1/10

### Total Wards

Emergency	1 room	Pediatrics	1 room	Maternity	1 room
Surgical	1 room	General	2 rooms	ICU	1 room

**Need Help?**  
Contact IT Support at ext. 4387 or support@corewell.org

**Patient Admission Details**

**Patient Info**  
Name: Adarsh Dhakar  
Gender: Male  
Patient ID: 3  
Age: 84

**Room Info**  
Ward: W1  
Bed: 1

**Medical Info**  
Doctor: Vikram Reddy  
Department: Orthopedics  
Doctor ID: 4

**Admission Timeline**  
Admit Date: 16/04/2025  
Discharge Date: 03/05/2025  
8:49:45 am

**Rooms Status**

- Emergency Room: 5/20
- Pediatrics Room: 20/50
- Surgical Room: 10/20
- ICU Room: 64/150
- General Room: 1/10

## Registration

**Check Patient Aadhaar**  
888888888888  
Patient Found. Patient ID: 10

**Patient Registration**

Patient Name	Email	Age	Weight	Gender
Full name	patient@example.com	Age	Weight (kg)	Select Gender
Contact Number	Aadhaar Number	Address		
+91 (____) _____	Aadhaar Number	Patient Address		

Patient registered successfully!  
Patient ID: 7

## Book Appointment

**Schedule New Appointment**

Appointment scheduled successfully!  
Appointment ID: 85, Appointment Time: 12:00:00

Patient	Department
7	Neurology
Doctor	Date
Dr. Aarav Sharma	21-04-2025
Appointment Type	Priority
Consultation	Normal

**Clear** **Schedule Appointment**

**Need Help?**  
Contact IT Support at ext. 4357 or support@carewell.org

# Admit/Discharge

CareWell Front Desk Operator Dashboard Priya Verma

Today's Admissions: 2 (0 Discharged Today)

Appointments: 7 (0 emergencies)

Available Beds: 110/280 (1 ICU available)

Pending Tests: 17 (5 delayed results)

**Admit Patient**

Patient ID: 7

Ward Type: ICU

Department: Oncology

Doctor: Dr. Rahul Das

Reset Admit Patient

**Discharge Patient**

Patient ID: 7

Ward Number: W2

Discharge Date: 22-04-2025

Clear Discharge Patient

**Need Help?**  
Contact IT Support at ext. 4357 or support@carewell.org

## Test Scheduling

CareWell Front Desk Operator Dashboard Priya Verma

Today's Admissions: 2 (0 Discharged Today)

Appointments: 7 (0 emergencies)

Available Beds: 110/280 (1 ICU available)

Pending Tests: 17 (5 delayed results)

**Schedule Medical Test**

Patient ID / Name: 7

Doctor ID / Name: 50

Test Type: Blood Test

Test Scheduled Successfully

Test ID: 33  
Patient ID: 7  
Test Type: Blood Test  
Test Date: 2025-04-19  
Test Time: 16:17:22  
Lab Number: 4  
Notes: Fasting

Special Instructions: Fasting

Close Clear Schedule Test

**Need Help?**  
Contact IT Support at ext. 4357 or support@carewell.org

## Doctor:

The screenshot shows the CareWell Doctor Dashboard. On the left is a sidebar with a blue background containing the doctor's profile (Dr. Rohan Mehta), navigation links (Dashboard, Patients, Appointments, Prescriptions, Medical Reports, Settings, Logout), and the CareWell logo with copyright information. The main area is titled "Doctor Dashboard" with an "Active Session" indicator. It features four summary cards: "Total Patients 3" (3 this month), "Total Appointments 3" (0 pending), "Active Prescriptions 23" (5 renewals needed), and "Reports Generated 56" (3 new this week). Below these are two sections: "Recent Patients" listing Amit Reddy (Hypertension), Raj Verma (Heart Failure), and Sneha Mehta (Arrhythmia), and "Upcoming Appointments" listing three appointments for Sneha Mehta, Raj Verma, and Amit Reddy at various times on April 19, 2025.

## Query Patients

This screenshot shows the "Find Patient Records" section of the CareWell Doctor Dashboard. It includes a search bar with placeholder text "Search patients by name, ID, or condition...", a dropdown menu for "All Status" with options "Normal", "High", and "Emergency" (with "Normal" selected), and buttons for "Filter" and "Reset". Below this is the "All Patients" list, which is identical to the "Recent Patients" list in the previous screenshot, showing Amit Reddy, Raj Verma, and Sneha Mehta with their respective conditions and appointment details.

This screenshot shows a detailed patient profile for Amit Reddy (20) on the CareWell Doctor Dashboard. The profile includes a photo, basic info (34 years, Male, Hypertension), vital signs (Blood Pressure 120/80 mm Hg, Heart Rate 72 bpm, Weight 17.7 kg), medical history (Diagnosed January 2023, Family history: Father had coronary artery disease, Allergy: Penicillin (rash), Post Surgery: Appendectomy (2015)), contact information (Phone: 6947118013, Address: 2275 Santona Parkway Apt. 918, Lake Rondeborough, ND 78962), medical information (Blood Type: AB+, Current Medications: Lisinopril 10mg Once a day for 30 days, che for), recent visits (Follow-up: 2025-04-19 | 14:00:00, Pt reports occasional morning headaches and mild dizziness when standing quickly. Adherence: has been taking Lisinopril 10mg once daily, no missed doses. Diet: high sodium snacks at work, low water intake), and current prescriptions (Lisinopril 10mg Once a day for 30 days, che for).

## Query Appointments

The screenshot shows the CareWell Doctor Dashboard. On the left sidebar, under the 'Appointments' section, there is a list of three patients: Amit Reddy, Raj Verma, and Sneha Mehta. Each patient entry includes a small profile picture, name, age, and condition. To the right of the appointment list, there is a dropdown menu with filter options: All, Emergency, High, Normal, and a date range from dd-mm-yyyy. Below the dropdown, there are three appointment cards with details like time and date.

The screenshot shows the CareWell Doctor Dashboard. On the left sidebar, under the 'Settings' section, there is a 'Notification Preferences' section. It contains four toggle switches for different types of reports: Weekly Patient Reports, Emergency Alerts, Appointment Reminders, and Medication Adherence Reports. Below these, there is a field for 'Email Address for Notifications' (dr.sarah.johnson@medican.com) and a dropdown for 'Notification Frequency' (Daily Digest).

Data Entry Operator:

Find Patient corresponding to a doctor

The screenshot shows the CareWell Medical Data Entry interface. On the left sidebar, under the 'Appointments' section, there is a list of two patients: Arjun Bhatt and Amit Reddy. The main area is titled 'Medical Data Entry' and has a sub-section 'Select a Patient'. It shows fields for 'Patient ID' (20) and 'Doctor ID' (3), with a 'Search' button. Below this, there is a 'Patient Information' section with a profile picture of Amit Reddy, his ID (PT-20), age (34), gender (Male), blood type (AB+), and last visit (April 19, 2025). At the bottom, there are tabs for 'TEST RESULTS', 'PRESCRIPTIONS', and 'MEDICAL HISTORY', with 'TEST RESULTS' currently selected. There is also a 'Status' section at the very bottom.

The screenshot shows the 'Add Test Results' page in CareWell. At the top, there's a header with the CareWell logo and a user profile for 'Arjun Bhatt'. Below the header is a sidebar with navigation links: Dashboard, Patients, and Appointments. The main form area has fields for 'Test Type' (set to 'Blood Test'), 'Test Date' (set to '22-04-2025'), 'Notes' ('Very Bad'), and a large 'Parameters' section containing various blood test values like Hemoglobin (140 g/dL), WBC Count (10 cells/mcL), RBC Count (10 million cells/mcL), Platelet Count (130 lac/mcL), Glucose (Fasting) (Value mg/dL), Cholesterol (Value mg/dL), Urea (Value mg/dL), and Creatinine (Value mg/dL). A 'Status' field is set to 'Abnormal'. At the bottom right is a blue 'Save Test Results' button.

## Previous Test Result

This screenshot displays a list of previous test results. The table has columns for TEST TYPE, DATE, PARAMETERS, STATUS, and ACTIONS. A modal window titled 'Test Details' is open over the table, showing specific details for a Blood Test on 2025-04-22. The modal includes fields for Test Type, Date, Status (Abnormal), Notes (Very Bad), Parameters (Hemoglobin: 140 g/dL, WBC Count: 10 cells/mcL, RBC Count: 10 million cells/mcL, Platelet Count: 130 lac/mcL), and a 'Close' button. The background table lists other tests with varying statuses (Normal, Abnormal).

TEST TYPE	DATE	PARAMETERS	STATUS	ACTIONS
Urine Test	2025-04-20	pH, Glucose	Abnormal	
Urine Test	2025-04-20	pH, Glucose	Abnormal	
Blood Test	2025-04-14	Glucose	Normal	
Urine Test	2025-04-22		Abnormal	
Urine Test	2025-04-22		Normal	
Urine Test	2025-04-22		Abnormal	
Urine Test	2025-04-20	No parameters	Normal	
Urine Test	2025-04-20	No parameters	Normal	
Urine Test	2025-04-20	pH, Glucose	Normal	
Blood Test	2025-04-22	Hemoglobin, WBC, RBC, Platelet	Abnormal	

## Add and View All Prescriptions

This screenshot shows the prescription management interface. On the left is a sidebar with 'Arjun Bhatt' as the user and links for Dashboard, Patients, and Appointments. The main area has a search bar for 'Select a Patient' with fields for Patient ID (20) and Doctor ID (3), and a 'Search' button. Below the search bar is a 'Patient Information' section with a patient profile for 'Amit Reddy' (ID: PT-20), age 34, male, blood type AB+, and last visit on April 19, 2025. There are tabs for 'TEST RESULTS', 'PRESCRIPTIONS' (which is selected), and 'MEDICAL HISTORY'. The 'PRESCRIPTIONS' tab contains a 'Add Prescription' form with fields for Medication Name (e.g., Medication name), Dosage (e.g., 500mg), Frequency (Select Frequency dropdown), Duration (e.g., 7 days), Special Instructions (e.g., Take with food), and Date (dd-mm-yyyy). At the bottom is a 'Prescription History' table showing a single entry for Lisinopril.

DATE	MEDICATION	DOSAGE	DURATION	STATUS
2025-04-19	Lisinopril	10mg Once a day	30 days	---

# Medical History

CareWell

Ajrun Bhatt Data Entry Operator

Dashboard Patients Appointments Logout

Patient ID: 20 Doctor ID: 3 Search

Patient Information

Amit Reddy (ID: PT-20) Age & Gender: 34, Male Blood Type: AB+ Last Visit: April 19, 2025

TEST RESULTS PRESCRIPTIONS MEDICAL HISTORY

**Medical History**

Allergies + Add Allergy

- Penicillin - Severe reaction (hives, difficulty breathing)
- Sulfa drugs - Mild rash

Medical Conditions + Add Condition

Hypertension Diagnosed: 2018, Controlled with medication

Type 2 Diabetes Diagnosed: 2020, Diet controlled

Surgeries + Add Surgery

Appendectomy June 2015, No complications

Family History + Add History

Father: Heart disease (age 65), Hypertension

Mother: Breast cancer (age 58), Osteoporosis