

# UX Case Study: Digital Clinic Application

## Problem Statement

Many clinics lack a comprehensive online management system, leading to inefficiencies in handling patient appointments, medical records, and lab reports. The current workflow involves multiple manual steps that can be streamlined through a digital solution.

## Objectives

- Develop a seamless digital clinic management system.
- Enhance patient experience with faster and more efficient processes.
- Ensure doctors have quick access to patient history for better diagnosis and treatment.
- Enable a structured workflow for receptionists, nurses, doctors, and lab technicians.
- Provide Super Admin (Clinic Owner) with a comprehensive overview of all clinic activities.

## User Personas

### 1. Receptionist

- Books patient appointments.
- Collects payments.
- Maintains patient records.

### 2. Patient

- Visits the clinic for consultation.
- Make payments.
- Can access medical history and reports online.

### 3. Nurse

- Records vitals and medical details.
- Sends information to the doctor.

### 4. Doctor

- Views patient history and vitals.
- Writes clinical notes and prescriptions.
- Orders lab tests.
- Reviews lab reports and diagnoses the patient.

- Provides advice and schedules follow-ups.

## 5. **Lab Technician**

- Receives lab orders.
- Uploads test reports.
- Notifies doctors of results.

## 6. **Super Admin (Clinic Owner)**

- Views all clinic information, including patient records, doctor activities, appointments, and payments.
- Manages financial transactions and clinic revenue.
- Oversees staff performance and clinic operations.

## **UX Research**

### **Pain Points Identified**

1. Manual processes lead to longer patient wait times.
2. Doctors struggle with accessing past patient records.
3. Lab reports are not easily accessible to patients and doctors.
4. Paper-based prescriptions and diagnoses can be lost or misinterpreted.
5. Clinic owners lack a centralized dashboard for monitoring operations.

## **Design Solution**

### **User Flow**

#### 1. **Patient Registration & Appointment Booking**

- The receptionist registers the patient and schedules an appointment.
- Payment is processed.

#### 2. **Vitals & Initial Assessment**

- The nurse records vitals and medical history.
- Data is uploaded to the doctor's dashboard.

#### 3. **Doctor Consultation**

- The doctor reviews patient data on the system.
- Clinical notes and prescriptions are recorded digitally.
- If lab tests are required, the doctor places an order.

#### 4. **Lab Workflow**

- Lab technicians receive test orders and conduct tests.
- Test results are uploaded to the system.

- The doctor reviews reports and updates diagnosis.

## 5. Follow-up & Prescription

- The doctor provides treatment plans and medicine prescriptions.
- Follow-up visits are scheduled.
- The patient can access all records online.

## 6. Super Admin Dashboard

- Overview of clinic performance, including patient visits, staff activities, and financial reports.
- Tracks all appointments and payments.
- Access to patient records and operational insights.



# Wireframes & Prototyping



## Receptionist Dashboard

- Appointment booking interface.
- Payment processing integration.



## Doctor's Dashboard

- Patient list with search and filter options.
- Detailed patient history view.
- Clinical notes and prescription section.



## Nurse's Interface

- Enter vitals and medical details.
- Send data to the doctor.



## Lab Module

- Test request management.
- Report upload functionality.



## Patient Portal





- View appointments, prescriptions, and medical history.
- Secure access to test reports.



## Super Admin Dashboard

- Real-time clinic performance metrics.
- Staff and appointment management.
- Financial transactions and revenue tracking.

## Key UX Considerations

-  **User-Friendly Interface:** A minimal, intuitive design for quick adoption.
-  **Seamless Data Flow:** Ensure smooth transition of information between different roles.
-  **Mobile Accessibility:** Responsive design for doctors and patients on the go.
-  **Security & Privacy:** HIPAA-compliant data protection for medical records.

## Wireframe Designs

### 1. Receptionist Dashboard

- Easy-to-use appointment booking form.
- Integrated payment options.
- Patient records access.

### 2. Doctor's Dashboard

- Patient history overview.
- Clinical notes & prescription entry.
- Lab order request & review.

### 3. Nurse's Interface

- Vitals input section.
- Quick submission to the doctor.

### 4. Lab Technician Panel

- Test order list.
- Upload results functionality.

### 5. Patient Portal

- View test reports, prescriptions, and appointment history.
- Secure authentication for privacy.

### 6. Super Admin Dashboard

- Monitor clinic operations, payments, and staff activities.
- Manage appointments and oversee patient flow.
- Review financial reports and clinic revenue.

Digital Clinic

Paramitha Children's & Women's Hospital

Search...

4

Nik Patel

NAVIGATION

Dashboard

Add New OP

Today's Appts

All Patients List

Today's Collections

Welcome ! Nik Patel

Digital Clinic > Dashboard

Total OP Visits

65,400

1% Up

Today's OP

12

10% Down

Available Doctors

10/12

39% Up

Today OP Collections

25,000

39% Up

Today OP Patients List

Search:

#	MR #	Patient Details	Visit Type	Appt Time	Consultant	Payment	Created by	Action
1	PCH-4452927	Jason Stathem 9640212477 · 26 Years · Male	Routine	08:21 AM	Dr. Sudhakar Murki	Paid	Ramu	
2	PCH-4452927	John Doe 9640212476 · 28 Years · Male	Emergency	08:21 AM	Dr. Ramesh Paliseti	Cancelled	Ramu	
3	PCH-4452927	Leonardo Dicaprio 9392419335 · 32 Years · Male	Follow up	08:21 AM	Dr. Ramesh Paliseti	Saved	Ramu	

Showing 1 to 3 of 3 entries

Previous1Next

Total Revenue

Yearly

Last week

Last Month

₹56,214

₹840

₹7,845

Yearly Patients Report

Total

Last Week

Last Month

8712

523

965

Weekly Visit Type

Routine

Emergency

Follow up

12,365

365

8,501

2024 © Digital Clinic by ClinicApp

About UsHelpContact Us

Digital Clinic

Add New OP

Search...

4

Receptionist

NAVIGATION

Dashboard

Add New OP

Today's Appts

All Patients List

Today's Collections

Add New OP

Digital Clinic > Add New OP

Mobile

Patient Name

DOB

Age

Gender

Father/Guardian/Spouse

10 Digit Mobile

FirstName Surname

mm/dd/yyyy

Male

Visit Date

Visit Time

Visit Type

Department

Consultant Doctor

mm/dd/yyyy

--:--

Routine

Select Department

Select Doctor

Height

Weight

BP

SpO2

Pulse

Temperature

Cms

Kgs

Systolic

Diastolic

%

/Min

°F

Fee Amount

Discount

Final Amount

Payment Mode

Payment Ref

Payment Status

By Cash

Saved

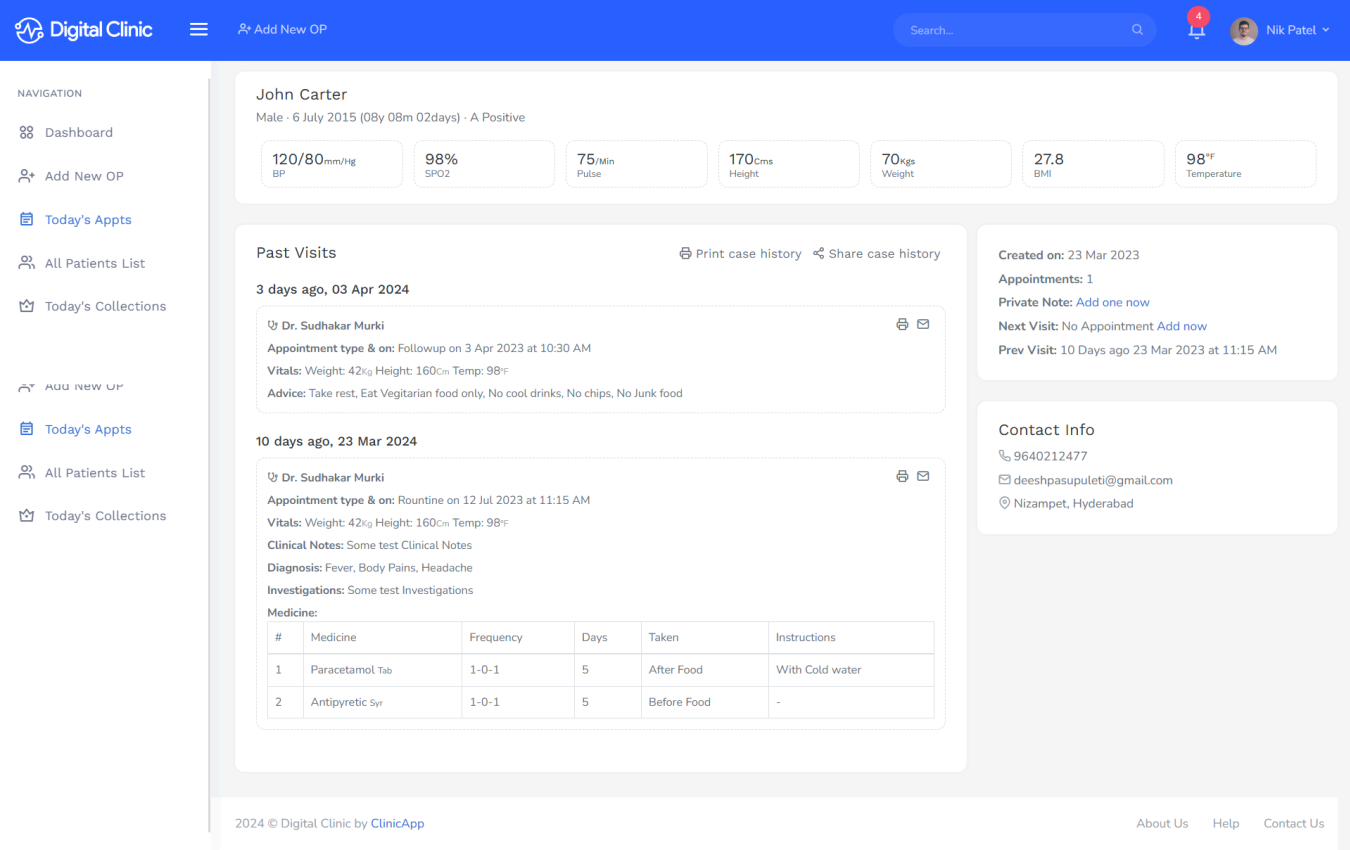
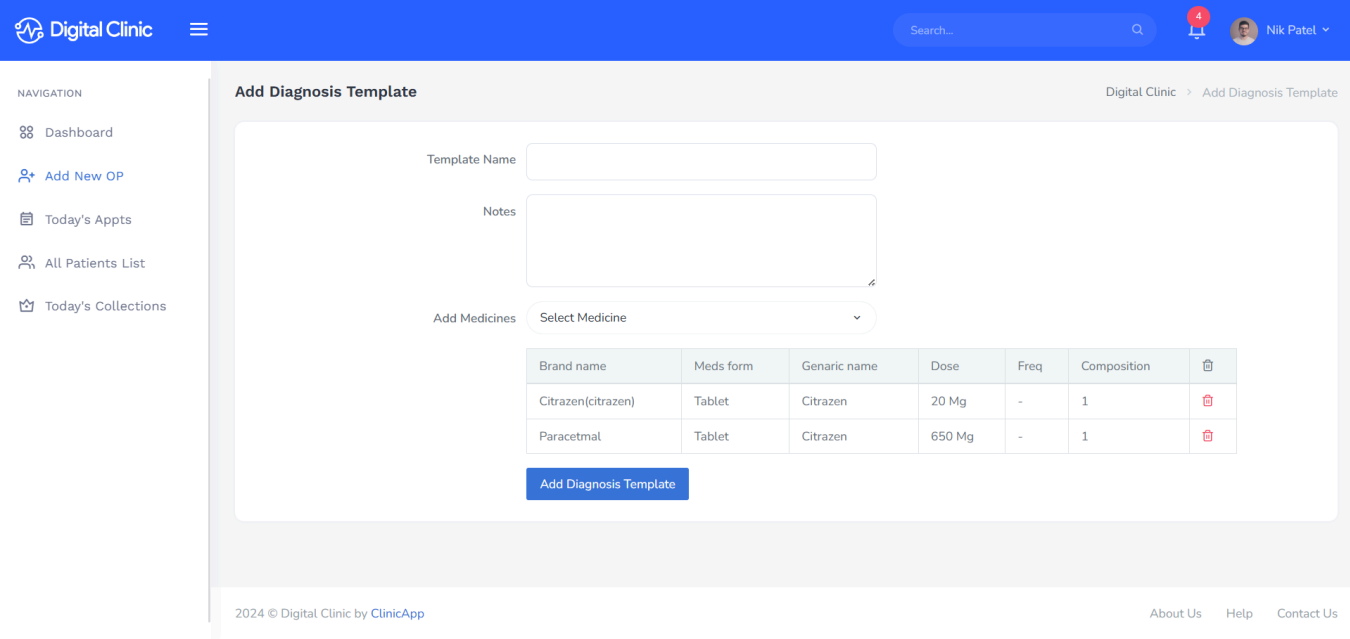
Save Details

Save Details & Print

2024 © Digital Clinic by ClinicApp

About UsHelpContact Us





# Conclusion

This **Digital Clinic Application** aims to streamline clinic management by digitizing appointments, medical records, prescriptions, and lab results. By ensuring an efficient workflow and improving patient experience, this solution enhances overall healthcare management.

---

**Designed with a UX-first approach to enhance user experience and optimize digital healthcare workflows.**