DoctorPat360

Complete Doctor–Patient & Hospital Management Platform

9 User Roles | 49+ Pages | 26 Modules | Next.js 15 | TypeScript | SaaS Ready

Complete technical & sales project documentation. All modules, pages, components, TypeScript types, and JavaScript architecture documented for commercial deployment.

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Executive Summary

DoctorPat360 is a full-featured Hospital & Clinic Management System (HCMS) built with **Next.js 15**, **TypeScript**, and **Tailwind CSS**. It digitizes the complete healthcare workflow from patient registration to billing, HR, and financial reporting.

> Ready for software agencies, healthcare startups, and resellers who need a professional, production-quality frontend to launch quickly or white-label as a SaaS product.

9	49+	26
Role-Based Panels	Application Pages	Core Modules

Key Selling Points

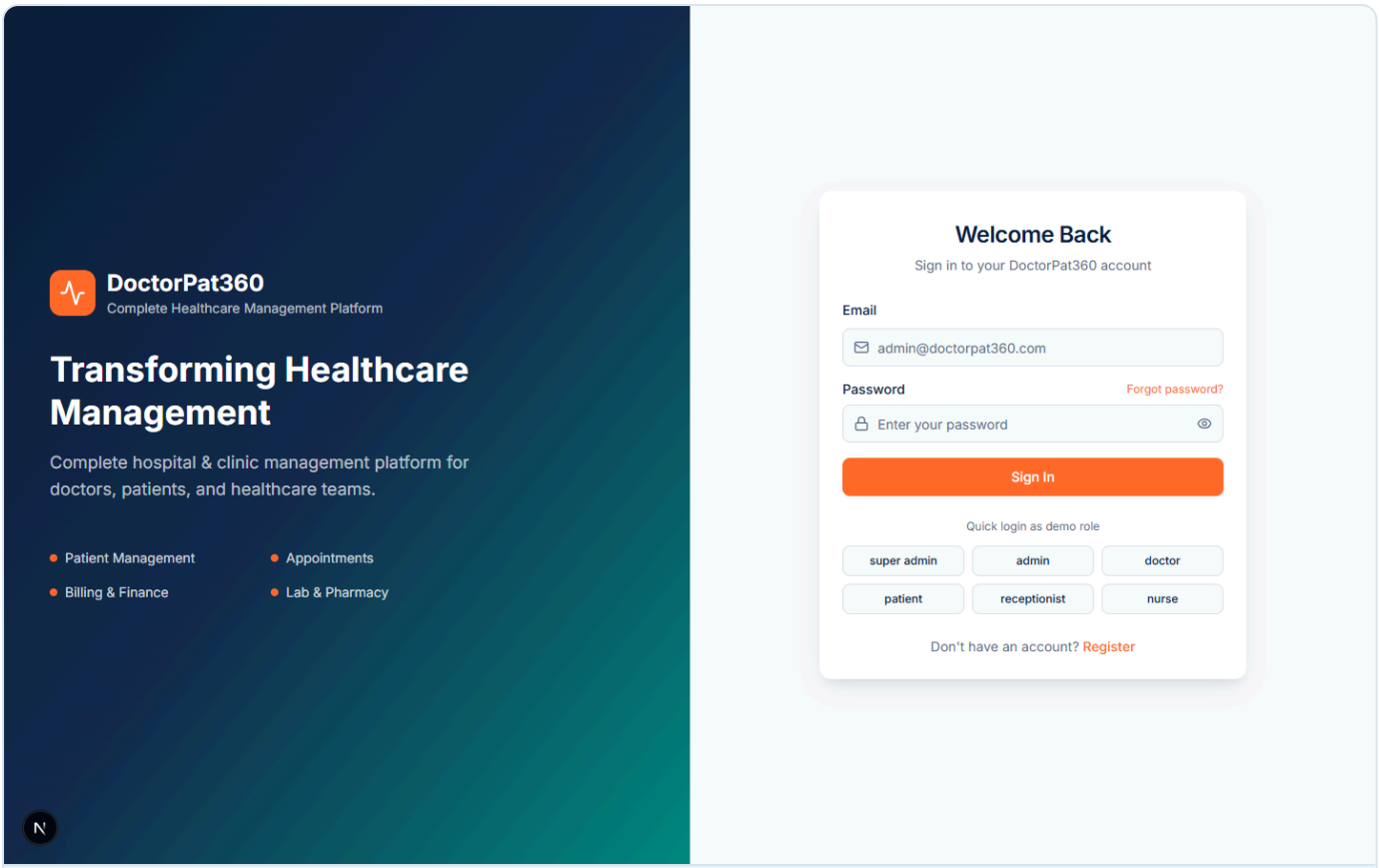
- Premium healthcare SaaS dashboard (Navy #0B1F3A, Orange #FF6B2C, Teal #00B4A6)
- Fully responsive — desktop, tablet, and mobile
- Role-based navigation — each user sees only relevant modules
- KPI cards, Recharts graphs, calendars, data tables, filters, search, export
- Dark / Light mode with next-themes
- API-ready architecture with TypeScript types and mock data layer
- Clean component structure — easy to extend and maintain
- Demo login for all 9 roles (password: `admin123`)

What's Included in Purchase

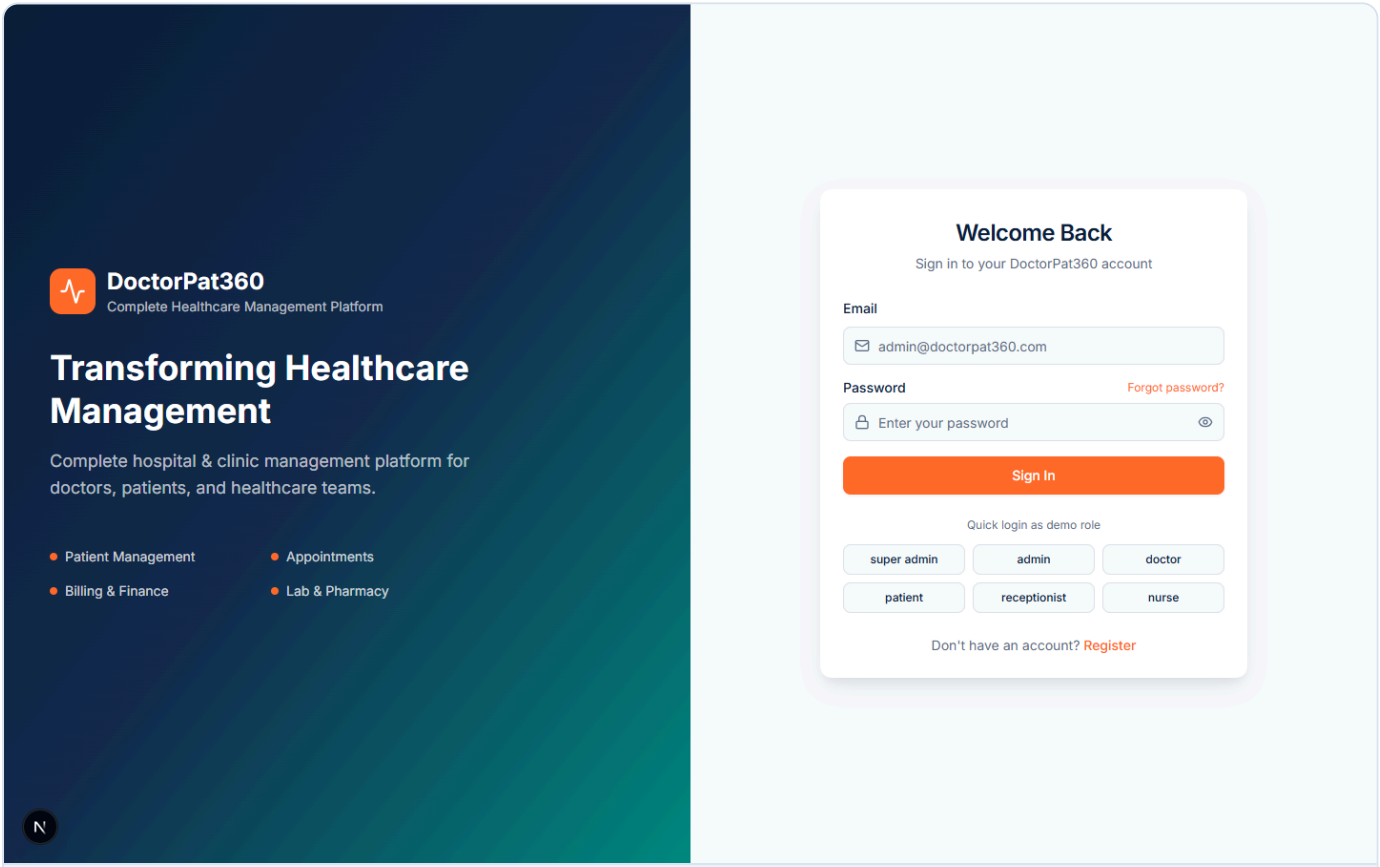
- Complete source code (Next.js frontend application)
- All 49+ pages and 9 role-based dashboards
- Demo accounts for every user role
- Mock data layer for immediate demonstration
- TypeScript types for all healthcare entities
- Reusable UI component library
- README + this project document

UI Screenshots — Dashboard & Modules

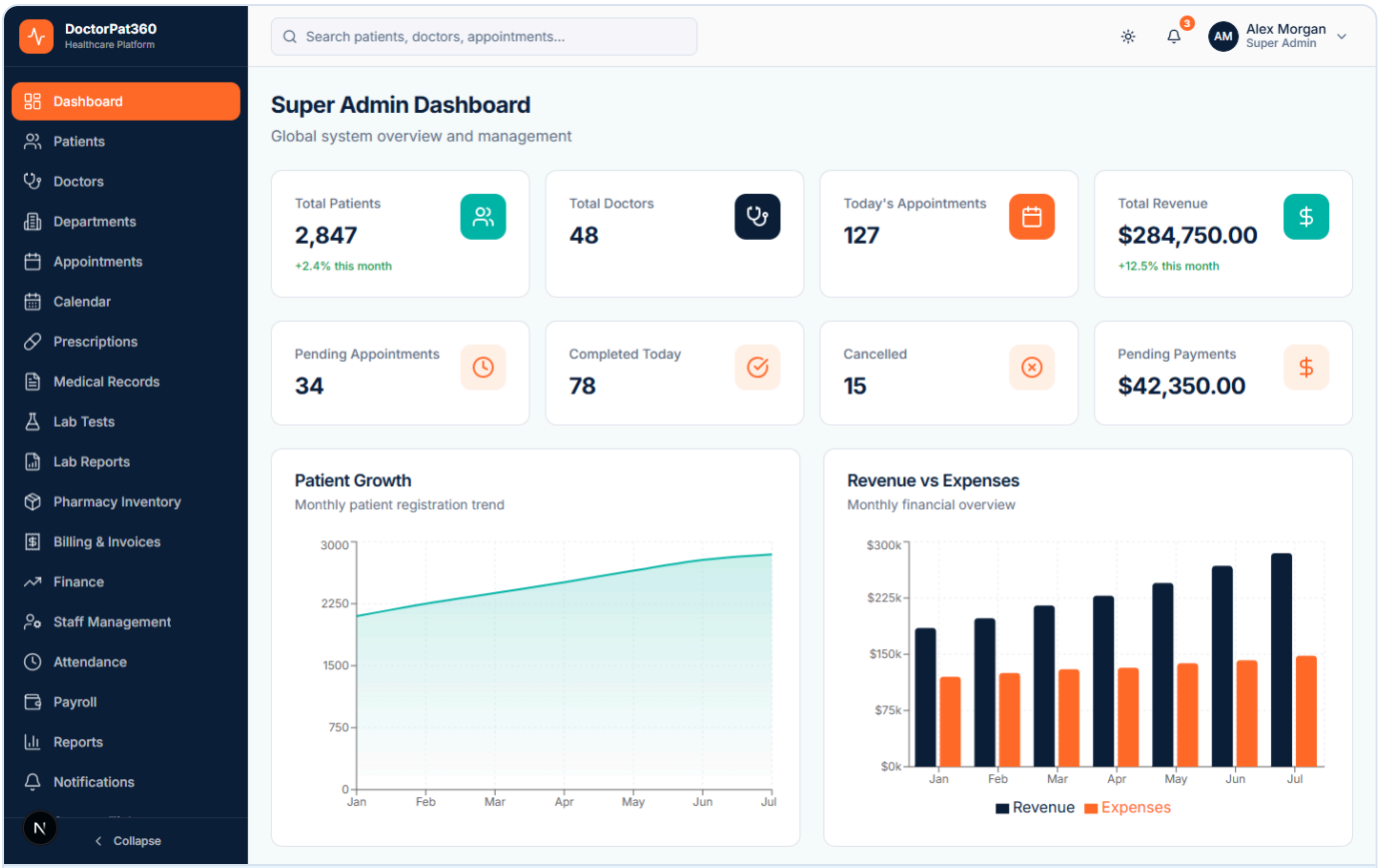
Live application screenshots showing dashboards, patient management, appointments, billing, pharmacy, and reports.



Landing



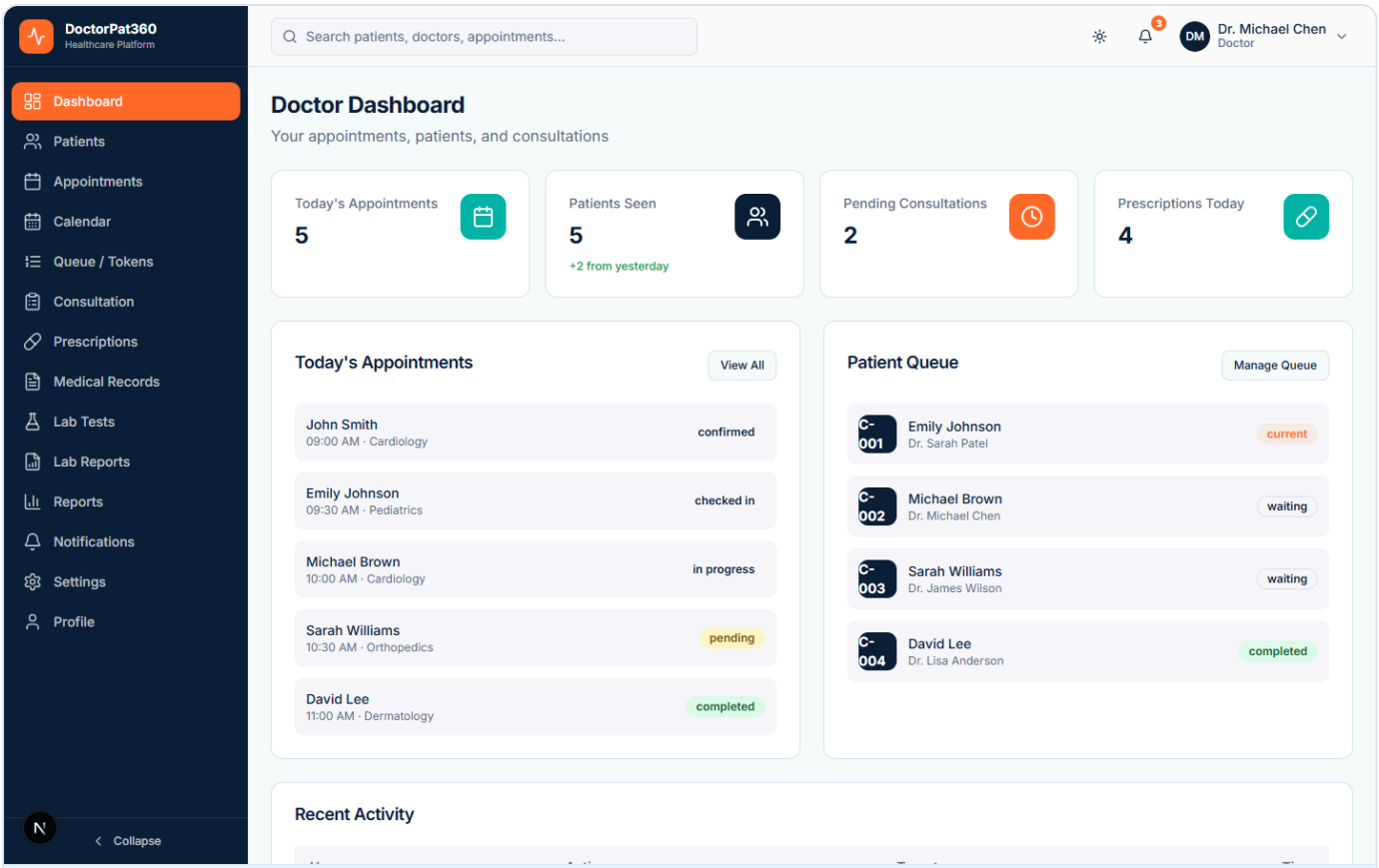
Login



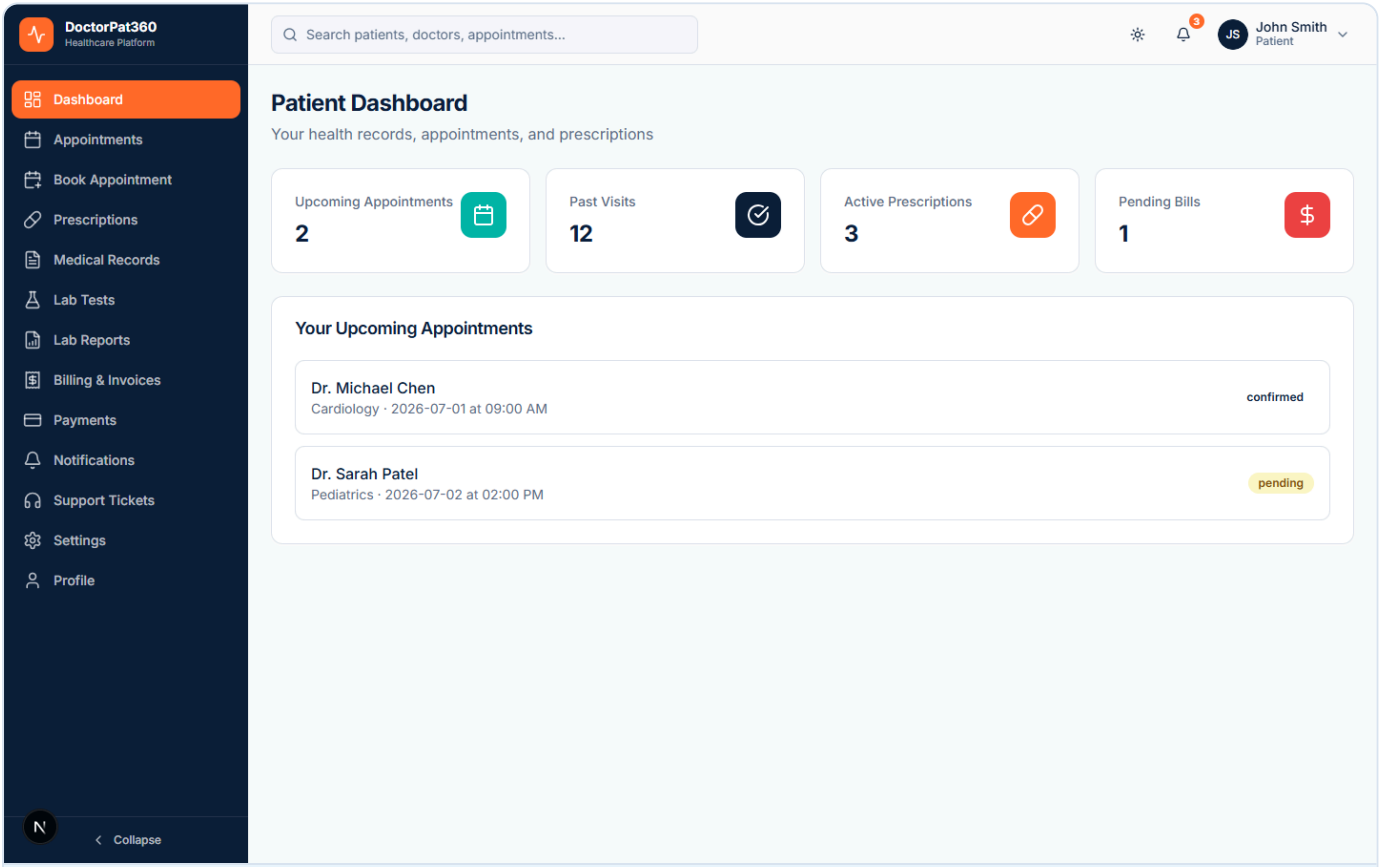
Super Admin



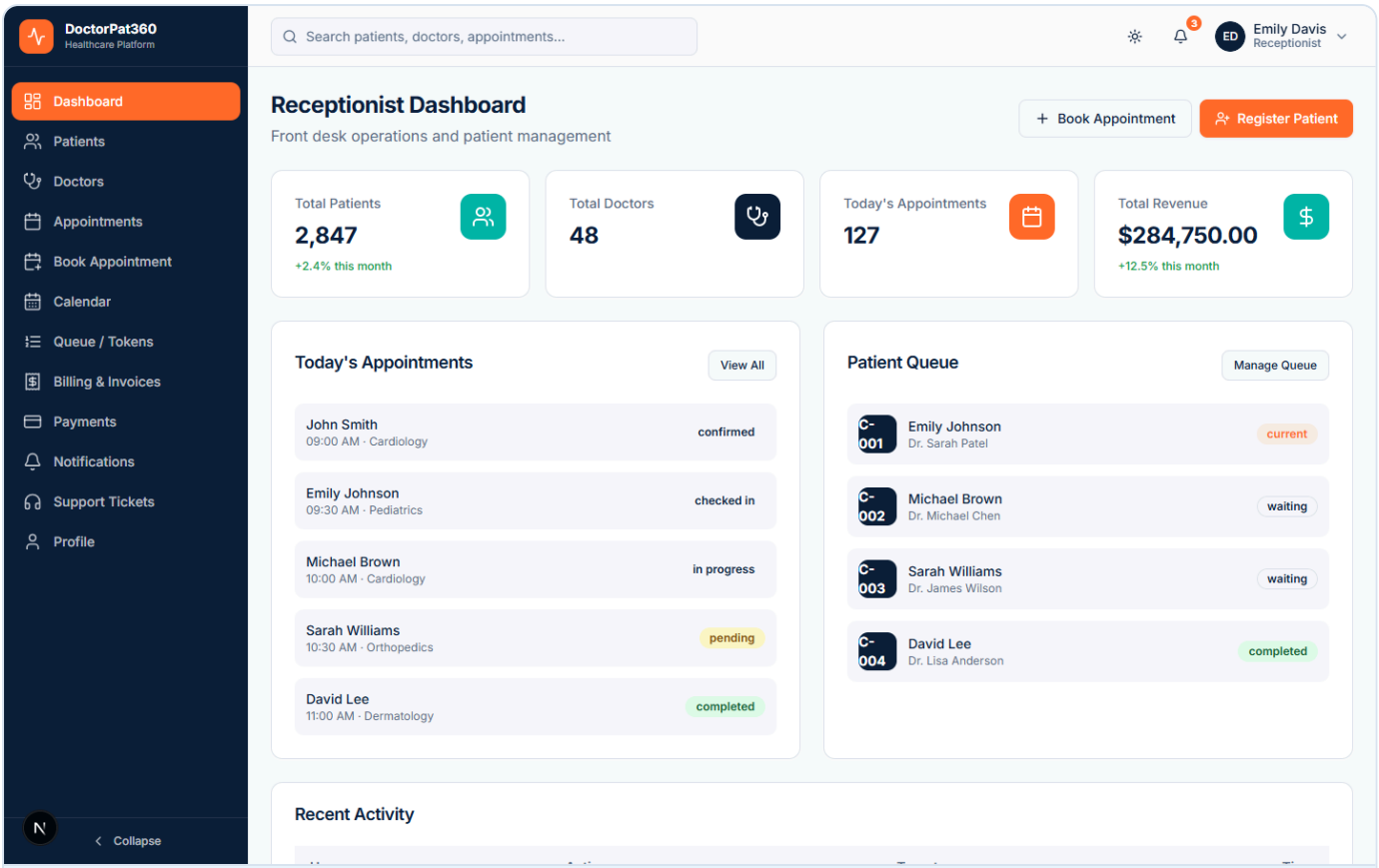
Admin



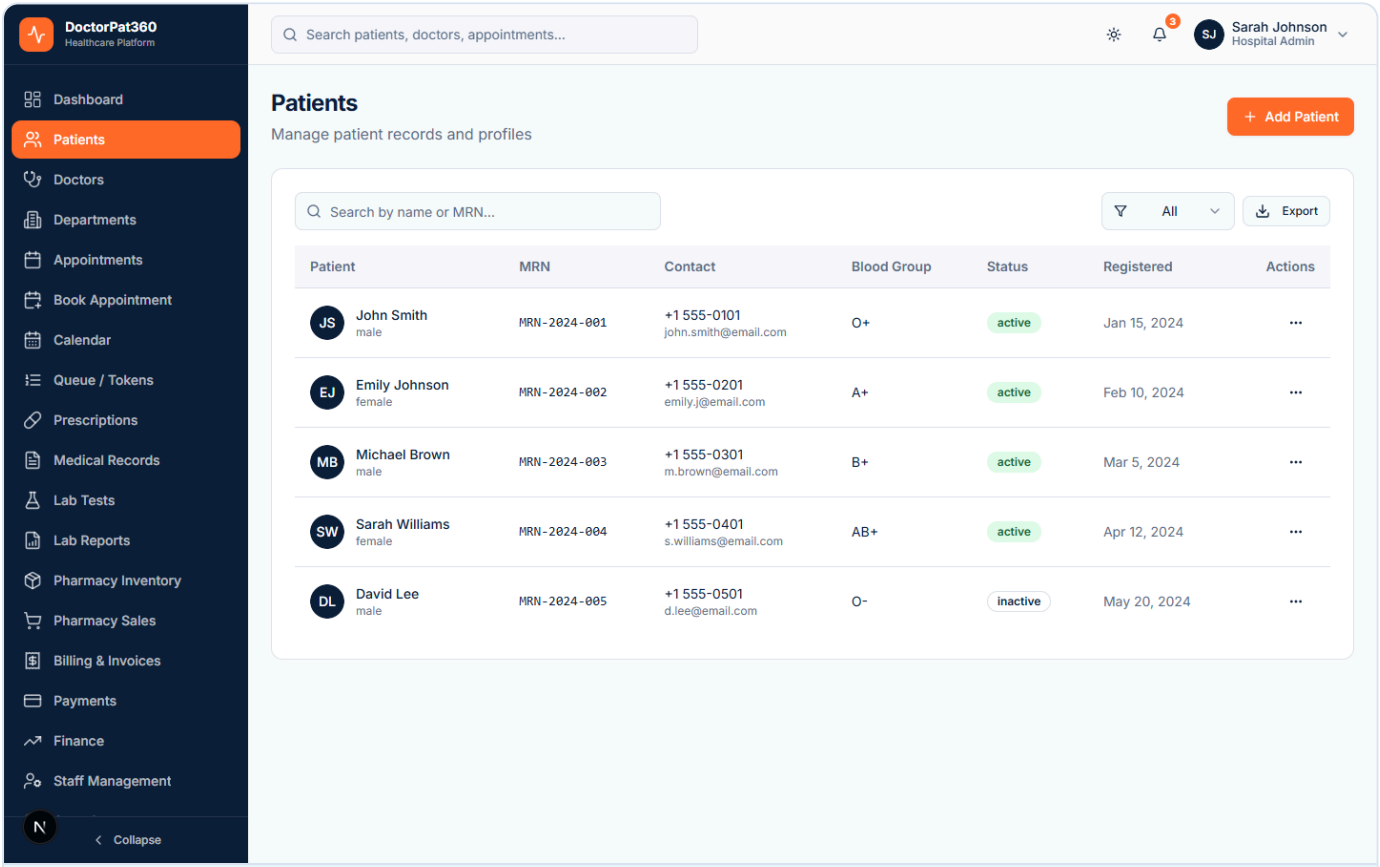
Doctor



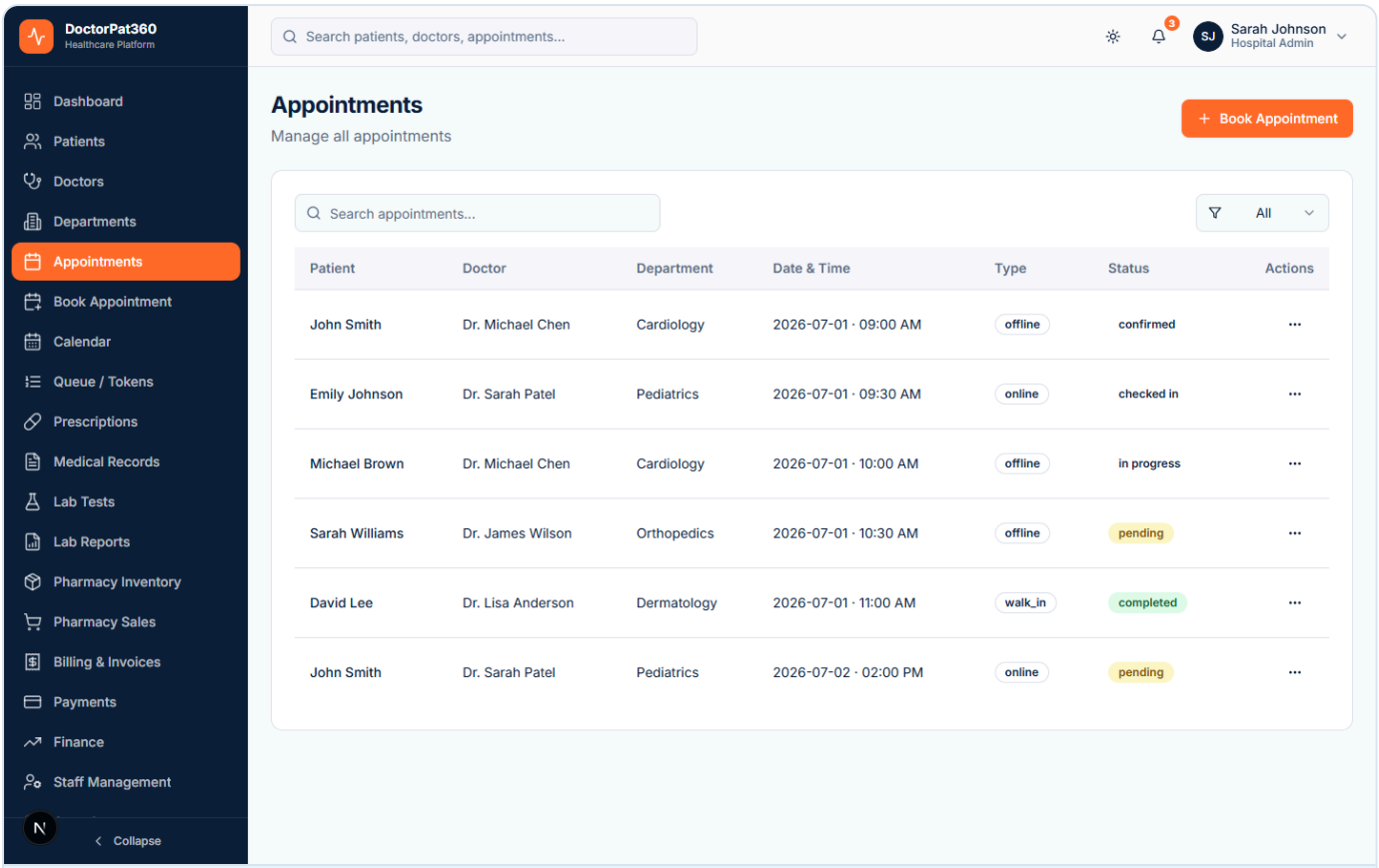
Patient



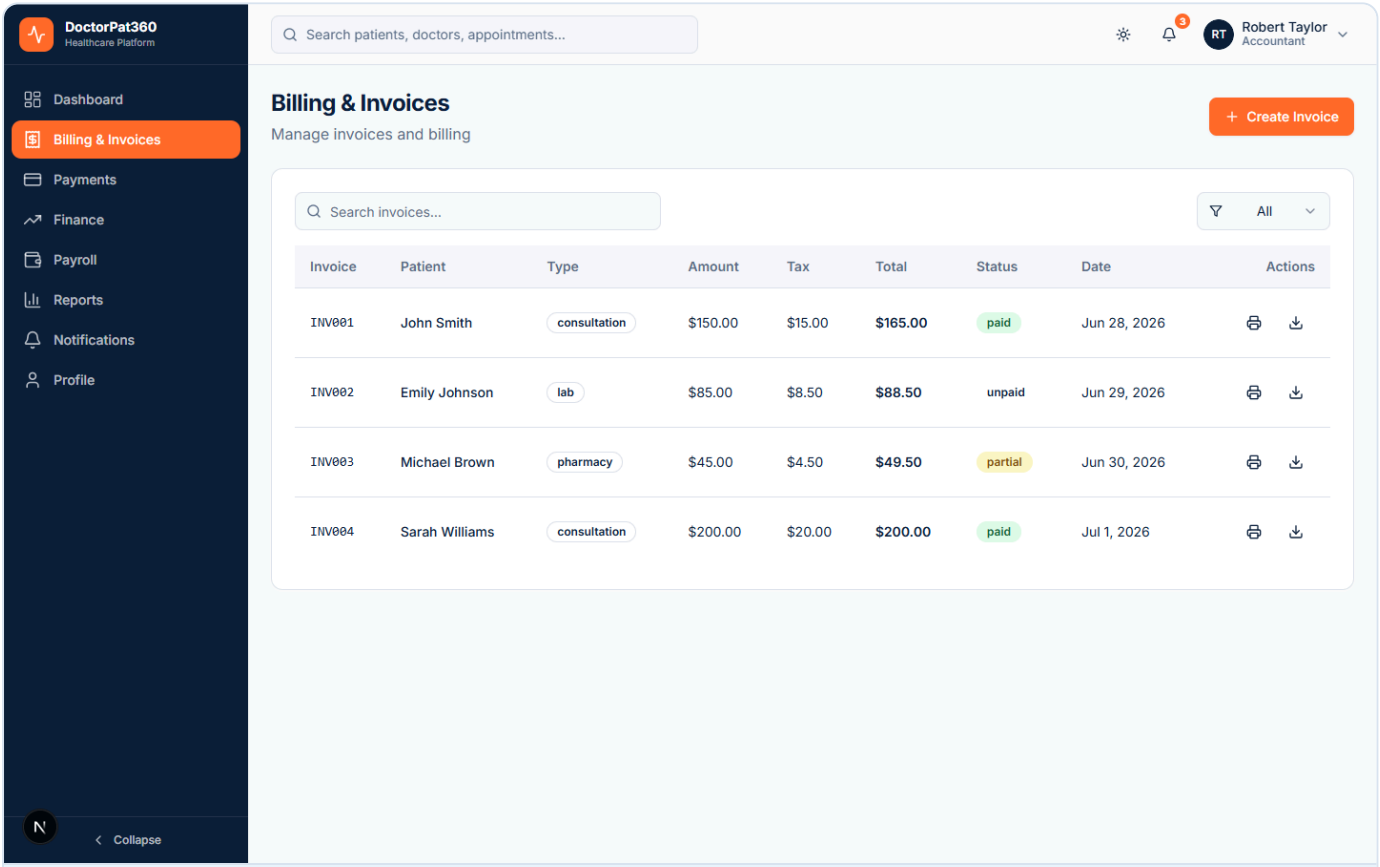
Receptionist



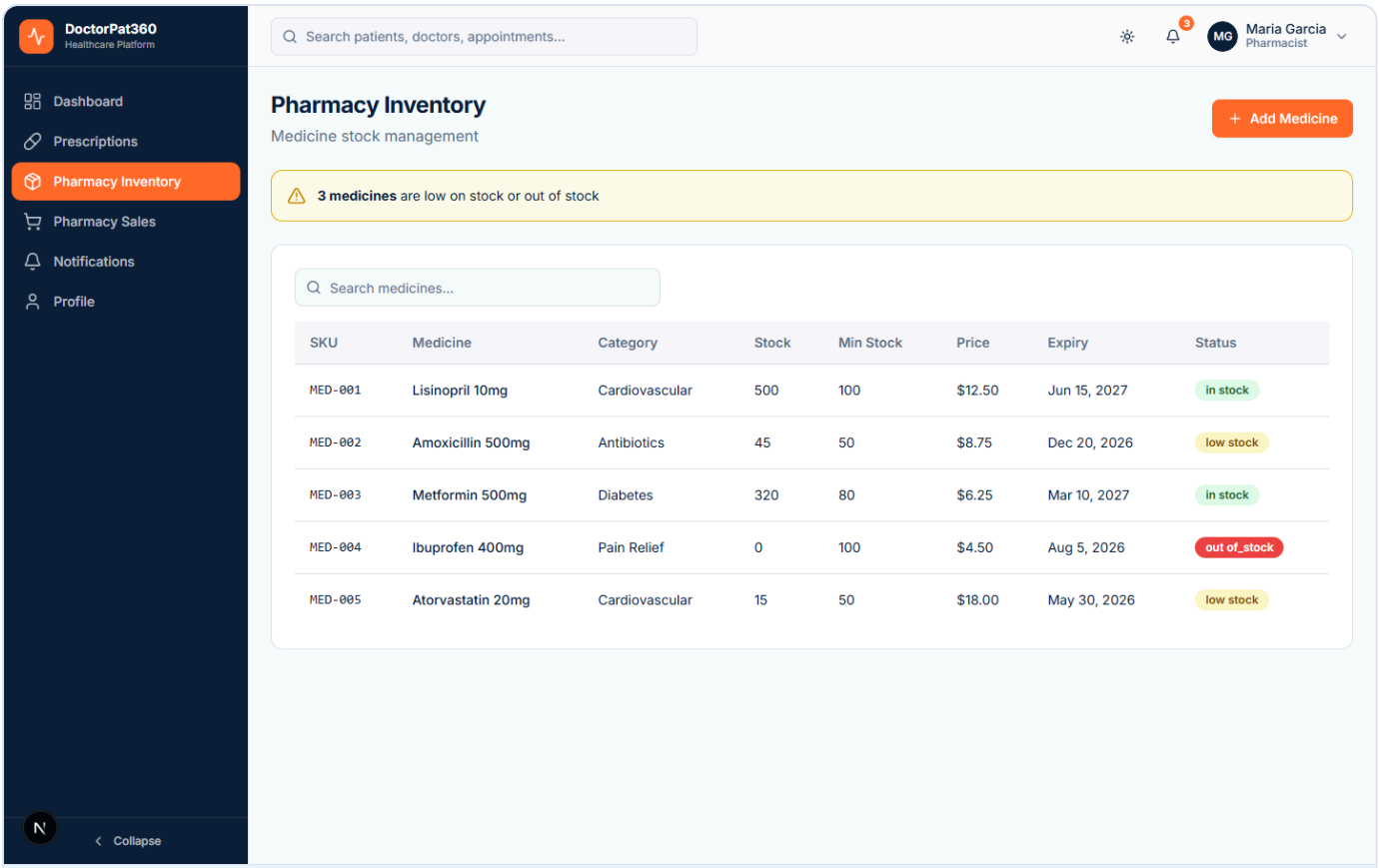
Patients



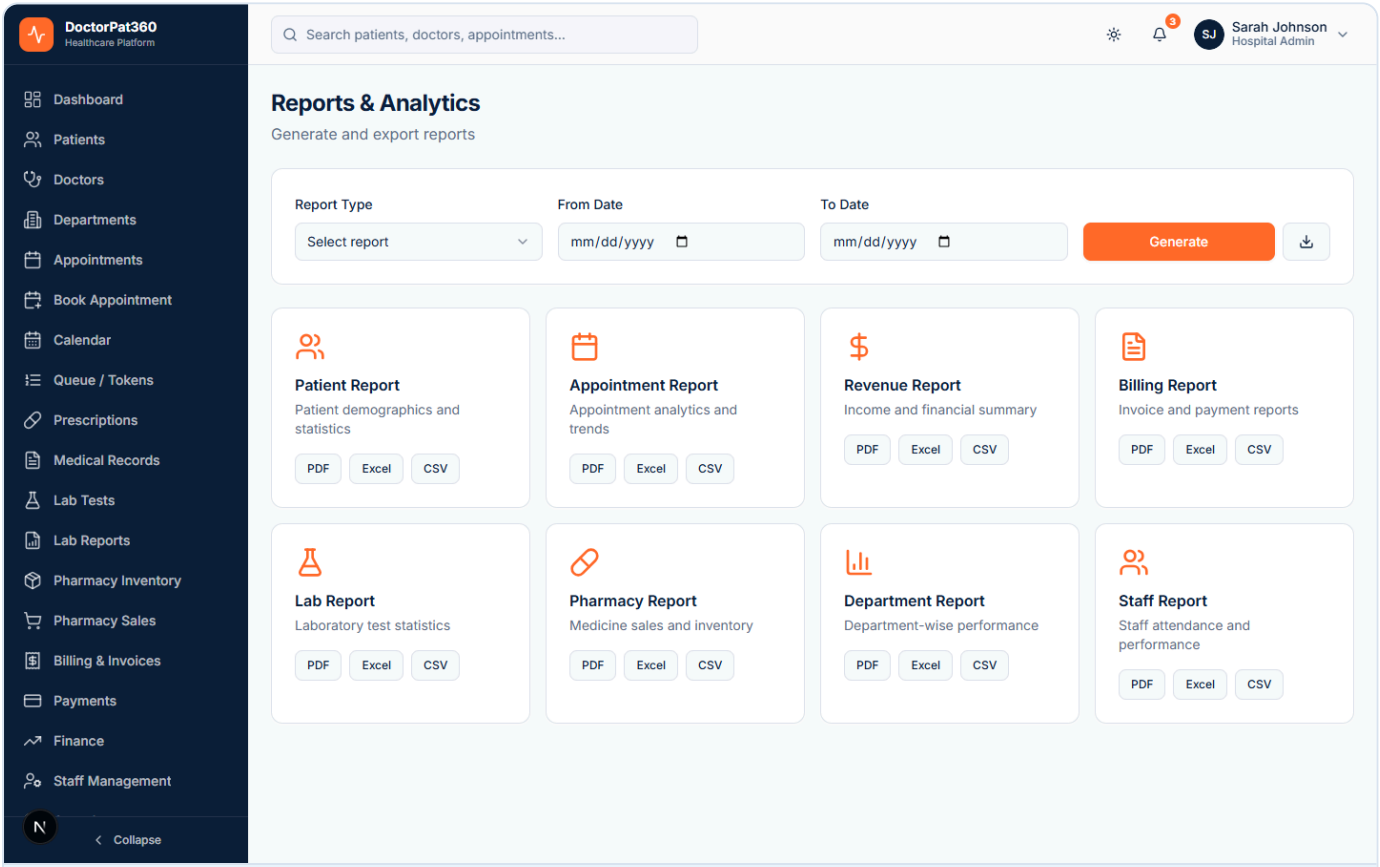
Appointments



Billing



Pharmacy



Reports

9 User Roles & Demo Accounts

Role	Demo Email	Dashboard Path	Capabilities
Super Admin `super_admin`	superadmin@doctorpat360.com	`/dashboard/super-admin`	Full system control, hospitals/clinics, subscriptions, audit logs, global reports, security settings
Hospital Admin `admin`	admin@doctorpat360.com	`/dashboard/admin`	Doctors, patients, staff, departments, appointments, billing, pharmacy, lab, clinic reports, settings
Doctor `doctor`	doctor@doctorpat360.com	`/dashboard/doctor`	Appointments, consultations, prescriptions, lab requests, patient history, follow-ups, earnings
Patient `patient`	patient@doctorpat360.com	`/dashboard/patient`	Book appointments, view records, prescriptions, lab reports, invoices, support tickets
Receptionist `receptionist`	reception@doctorpat360.com	`/dashboard/receptionist`	Patient registration, appointments, walk-ins, queue/tokens, check-in, basic billing
Nurse `nurse`	nurse@doctorpat360.com	`/dashboard/nurse`	Assigned patients, vitals, nursing notes, patient status, assist doctors
Lab Technician `lab_technician`	lab@doctorpat360.com	`/dashboard/lab`	Test requests, results entry, report upload, status updates, notify doctor/patient
Pharmacist `pharmacist`	pharmacy@doctorpat360.com	`/dashboard/pharmacist`	Prescriptions, inventory, stock/expiry alerts, dispensing, pharmacy sales & billing
Accountant `accountant`	accountant@doctorpat360.com	`/dashboard/accountant`	Invoices, payments, refunds, daily income, expenses, profit/loss reports

> **Demo Password (all roles):** `admin123`

Authentication & Security

- Login, Register, Forgot Password pages
- Role-based access control (RBAC) via `src/lib/navigation.ts`
- Zustand auth store with sessionStorage persistence (`src/store/auth-store.ts`)
- Role-based dashboard routing via `ROLE_DASHBOARD_PATHS`
- Audit logs and activity tracking (Super Admin / Admin)
- Two-factor authentication settings (configurable in Settings)

All Modules (26 Core Modules)

1 Authentication

`/login, /register, /forgot-password`

- Login with role-based routing
- User registration
- Forgot password flow

2 Dashboard

`/dashboard`

- KPI cards (patients, doctors, appointments, revenue)
- Patient growth & revenue charts
- Appointment status breakdown

3 Patient Management

`/dashboard/patients`

- Patient list with search & filters
- Add new patient
- Edit patient

4 Doctor Management

`/dashboard/doctors`

- Doctor list with specialization
- Add/edit doctor profiles
- Doctor detail view

5 Department Management

`/dashboard/departments`

- Create & manage departments
- Assign head doctors
- Department-wise statistics

6 Appointment Management

`/dashboard/appointments`

- Appointment list & status tracking
- Book appointment
- Calendar view

7 Queue / Token Management

`/dashboard/queue`

- Token generation
- Waiting/current/completed queue
- Doctor-wise queue

8 Consultation / Visit

`/dashboard/consultation`

- Doctor consultation screen
- Record symptoms & diagnosis
- Vitals: BP, HR, temp, O2, weight, height

9 Prescription Management

`/dashboard/prescriptions`

- Digital prescriptions
- Medicines with dosage, frequency, duration, timing
- Diagnosis & instructions

10 Medical Records (EMR)

`/dashboard/medical-records`

- Complete patient medical history
- Visit, diagnosis, prescription history
- Lab report history

11 Lab Management

`/dashboard/lab`

- Lab test requests
- Test categories & status tracking
- Sample collection → processing → completed

12 Pharmacy Management

`/dashboard/pharmacy`

- Medicine inventory with SKU
- Add new medicine
- Low stock & expiry alerts

13 Billing & Invoices

`/dashboard/billing`

- Consultation, lab, pharmacy, package invoices
- Tax, discount, total calculation
- Paid/unpaid/partial/refunded status

14 Payments

`/dashboard/payments`

- Payment recording
- Cash, card, bank transfer, online methods
- Daily collection tracking

15 Finance & Accounting

`/dashboard/finance`

- Monthly revenue & expenses
- Net profit overview
- Income breakdown by service type

16 HR & Staff Management

`/dashboard/staff`

- Staff records with roles & departments
- Join date & salary
- Active/on leave/inactive status

17 Attendance

`/dashboard/attendance`

- Staff attendance tracking
- Leave status management
- Date-wise attendance records

18 Payroll

`/dashboard/payroll`

- Salary processing
- Deductions & bonuses
- Net pay calculation

19 Reports & Analytics

`/dashboard/reports`

- Patient, doctor, appointment reports
- Revenue, billing, lab, pharmacy reports
- Department & staff reports

20 Notifications

`/dashboard/notifications`

- System notifications
- Read/unread status
- Info, success, warning, error types

21 Support Tickets

`/dashboard/support`

- Create support tickets
- Priority: low, medium, high, urgent
- Status: open, in_progress, resolved, closed

22 Hospitals / Clinics (SaaS)

`/dashboard/hospitals`

- Multi-hospital management
- Branch settings
- Super Admin only access

23 Subscriptions (SaaS)

`/dashboard/subscriptions`

- Subscription plans: Starter, Professional, Enterprise
- Plan management
- Super Admin only access

24 Audit Logs

`/dashboard/audit-logs`

- User activity tracking
- Module-wise action logs
- IP address & timestamp

25 Settings

`/dashboard/settings`

- Hospital profile & logo
- Appointment slots & consultation fees
- Currency & tax settings

26 User Profile

`/dashboard/profile`

- Profile view & edit
- Password change
- Contact details

Complete Page List (49+ Screens)

Landing

Page	Route	Source File
Home / Landing	`/`	`src/app/page.tsx`

Authentication

Page	Route	Source File
Login	`/login`	`src/app/(auth)/login/page.tsx`
Register	`/register`	`src/app/(auth)/register/page.tsx`
Forgot Password	`/forgot-password`	`src/app/(auth)/forgot-password/page.tsx`

Role Dashboards

Page	Route	Source File
Main Dashboard	`/dashboard`	`src/app/dashboard/page.tsx`
Super Admin Panel	`/dashboard/super-admin`	`src/app/dashboard/super-admin/page.tsx`
Hospital Admin Panel	`/dashboard/admin`	`src/app/dashboard/admin/page.tsx`
Doctor Panel	`/dashboard/doctor`	`src/app/dashboard/doctor/page.tsx`
Patient Panel	`/dashboard/patient`	`src/app/dashboard/patient/page.tsx`
Receptionist Panel	`/dashboard/receptionist`	`src/app/dashboard/receptionist/page.tsx`
Nurse Panel	`/dashboard/nurse`	`src/app/dashboard/nurse/page.tsx`
Lab Technician Panel	`/dashboard/lab`	`src/app/dashboard/lab/page.tsx`
Pharmacist Panel	`/dashboard/pharmacist`	`src/app/dashboard/pharmacist/page.tsx`
Accountant Panel	`/dashboard/accountant`	`src/app/dashboard/accountant/page.tsx`

Patient Module

Page	Route	Source File
Patient List	`/dashboard/patients`	`src/app/dashboard/patients/page.tsx`
Add Patient	`/dashboard/patients/new`	`src/app/dashboard/patients/new/page.tsx`
Patient Profile	`/dashboard/patients/[id]`	`src/app/dashboard/patients/[id]/page.tsx`
Edit Patient	`/dashboard/patients/[id]/edit`	`src/app/dashboard/patients/[id]/edit/page.tsx`

Doctor Module

Page	Route	Source File
Doctor List	`/dashboard/doctors`	`src/app/dashboard/doctors/page.tsx`
Add Doctor	`/dashboard/doctors/new`	`src/app/dashboard/doctors/new/page.tsx`
Doctor Profile	`/dashboard/doctors/[id]`	`src/app/dashboard/doctors/[id]/page.tsx`
Edit Doctor	`/dashboard/doctors/[id]/edit`	`src/app/dashboard/doctors/[id]/edit/page.tsx`

Clinical

Page	Route	Source File
Departments	`/dashboard/departments`	`src/app/dashboard/departments/page.tsx`
Appointments	`/dashboard/appointments`	`src/app/dashboard/appointments/page.tsx`
Book Appointment	`/dashboard/appointments/book`	`src/app/dashboard/appointments/book/page.tsx`
Appointment Calendar	`/dashboard/appointments/calendar`	`src/app/dashboard/appointments/calendar/page.tsx`
Queue / Tokens	`/dashboard/queue`	`src/app/dashboard/queue/page.tsx`
Consultation	`/dashboard/consultation`	`src/app/dashboard/consultation/page.tsx`
Prescriptions	`/dashboard/prescriptions`	`src/app/dashboard/prescriptions/page.tsx`
Medical Records	`/dashboard/medical-records`	`src/app/dashboard/medical-records/page.tsx`

Lab & Pharmacy

Page	Route	Source File
Lab Tests	`/dashboard/lab/tests`	`src/app/dashboard/lab/tests/page.tsx`
Lab Reports	`/dashboard/lab/reports`	`src/app/dashboard/lab/reports/page.tsx`
Pharmacy Inventory	`/dashboard/pharmacy/inventory`	`src/app/dashboard/pharmacy/inventory/page.tsx`
Add Medicine	`/dashboard/pharmacy/inventory/new`	`src/app/dashboard/pharmacy/inventory/new/page.tsx`
Pharmacy Sales	`/dashboard/pharmacy/sales`	`src/app/dashboard/pharmacy/sales/page.tsx`

Finance & HR

Page	Route	Source File
Billing & Invoices	`/dashboard/billing`	`src/app/dashboard/billing/page.tsx`
Payments	`/dashboard/payments`	`src/app/dashboard/payments/page.tsx`
Finance Dashboard	`/dashboard/finance`	`src/app/dashboard/finance/page.tsx`
Staff Management	`/dashboard/staff`	`src/app/dashboard/staff/page.tsx`
Attendance	`/dashboard/attendance`	`src/app/dashboard/attendance/page.tsx`
Payroll	`/dashboard/payroll`	`src/app/dashboard/payroll/page.tsx`

Admin & System

Page	Route	Source File
Reports & Analytics	`/dashboard/reports`	`src/app/dashboard/reports/page.tsx`

Page	Route	Source File
Notifications	`/dashboard/notifications`	`src/app/dashboard/notifications/page.tsx`
Support Tickets	`/dashboard/support`	`src/app/dashboard/support/page.tsx`
Hospitals / Clinics	`/dashboard/hospitals`	`src/app/dashboard/hospitals/page.tsx`
Subscriptions	`/dashboard/subscriptions`	`src/app/dashboard/subscriptions/page.tsx`
Audit Logs	`/dashboard/audit-logs`	`src/app/dashboard/audit-logs/page.tsx`
Settings	`/dashboard/settings`	`src/app/dashboard/settings/page.tsx`
User Profile	`/dashboard/profile`	`src/app/dashboard/profile/page.tsx`

JavaScript / TypeScript Architecture

Project Structure

```
src/
├── app/
│   ├── (auth)/          # Login, Register, Forgot Password
│   ├── dashboard/       # All 49+ module pages
│   ├── layout.tsx       # Root layout
│   └── page.tsx         # Landing page
├── components/
│   ├── dashboard/       # KPI cards, charts, tables, dialogs
│   ├── layout/          # Sidebar, navbar, dashboard layout
│   ├── providers/       # Theme & toast providers
│   └── ui/              # Reusable UI components (12 components)
├── lib/
│   ├── constants.ts     # App config, roles, demo users
│   ├── types.ts         # 24 TypeScript interfaces
│   ├── navigation.ts    # Role-based nav config (26 nav items)
│   ├── mock-data.ts     # Demo data for all modules
│   └── utils.ts         # formatCurrency, formatDate, cn()
└── store/
    └── auth-store.ts    # Zustand auth with session persistence
```

TypeScript Types (24 interfaces in src/lib/types.ts)

`UserRole` `AppointmentStatus` `PaymentStatus` `TicketStatus` `TicketPriority` `User` `Patient` `Doctor` `Department` `Appointment` `Prescription` `MedicineItem` `Medicine` `LabTest` `Invoice` `Staff` `Notification` `SupportTicket` `AuditLog` `QueueToken` `VitalSigns` `Visit` `KPIStats` `NavItem`

Reusable Components

UI Components (src/components/ui/)

`avatar.tsx` `badge.tsx` `button.tsx` `card.tsx` `dialog.tsx` `dropdown-menu.tsx` `input.tsx` `label.tsx` `select.tsx` `table.tsx` `tabs.tsx` `textarea.tsx`

Dashboard Components (src/components/dashboard/)

`charts.tsx` `confirm-dialog.tsx` `dashboard-content.tsx` `data-table-toolbar.tsx` `kpi-card.tsx` `page-header.tsx` `recent-activity.tsx`

Layout Components (src/components/layout/)

`dashboard-layout.tsx` `sidebar.tsx` `top-navbar.tsx`

Providers (src/components/providers/)

`theme-provider.tsx` `toast-provider.tsx`

Key JavaScript/TypeScript Files

File	Purpose
`src/lib/constants.ts`	APP_NAME, ROLE_LABELS, DEMO_USERS, status colors
`src/lib/navigation.ts`	NAVIGATION array, getNavForRole() — RBAC menu
`src/lib/mock-data.ts`	Demo patients, doctors, appointments, invoices, etc.
`src/store/auth-store.ts`	useAuthStore — login, logout, setRole, getDashboardPath
`src/components/dashboard/charts.tsx`	PatientGrowthChart, RevenueChart, AppointmentStatusChart
`src/components/layout/sidebar.tsx`	Role-based dynamic sidebar navigation

Technology Stack

Layer	Technology
Framework	Next.js 15 (App Router)
Language	TypeScript / JavaScript
Styling	Tailwind CSS + custom design system
UI Library	Radix UI + custom reusable components
Charts	Recharts (area, bar, pie charts)
State Management	Zustand (auth store with session persistence)
Icons	Lucide React
Theme	next-themes (Dark / Light mode)
Date Utils	date-fns
Utilities	clsx, tailwind-merge, class-variance-authority

UI / UX Features

Modern Sidebar

Healthcare icons, collapsible, role-based menu

Top Navbar

Global search, notifications, profile dropdown

KPI Cards
Color-coded stats with trend indicators

Charts (Recharts)
Area, bar, and pie charts

Data Tables
Search, filters, pagination, export, badges

Toast Notifications
Success, error, warning, info alerts

Dark / Light Mode
Theme toggle with next-themes

Responsive Layout
Mobile sidebar, tablet-friendly grids

Future Expansion Ready

- Hospital IPD & Bed Management
- Operation Theatre Management
- Ambulance Management
- Insurance Claims Processing
- Telemedicine / Video Consultation
- Multi-Branch Hospital Management
- Patient Mobile App
- Doctor Mobile App

Setup Instructions

```
cd DoctorPat360
npm install
npm run dev
# Open http://localhost:3000

# Production build:
npm run build
npm start
```

DoctorPat360 — Premium Healthcare Management Platform
26 Modules • 49+ Pages • 9 Roles • Next.js 15 + TypeScript
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