Hospital Management System

1. Patient Registration

Description: Create medical records

Screens: New Patient Form, Medical History Questionnaire, ID Scanner

Interaction:

- Front desk: Scan ID → auto-fill basic info → complete medical history
- Patients: Self-registration kiosk with digital signature
- Auto-generates patient ID wristband

2. Appointment Scheduling

Description: Book doctor visits

Screens: Doctor Availability Calendar, Time Slot Picker, Confirmation

Interaction:

- Patients: Select specialty → choose doctor → pick available slot
- Receptionists: Override for emergency cases
- SMS/email reminders 24hrs before appointment

3. Doctor Profiles

Description: Specialist information

Screens: Doctor Directory, Schedule Viewer, Specialty Filter

Interaction:

- Patients: View qualifications → check availability → book
- Admins: Edit doctor schedules → set consultation fees
- Integrated with on-call rotation system

4. Prescription Records

Description: Digital medication orders

Screens: e-Prescription Editor, Pharmacy Dashboard, Drug Database

Interaction:

- Doctors: Search medications → specify dosage → e-sign
- Pharmacists: View pending orders → dispense → mark complete
- Allergy interaction warnings

5. Basic Billing

Description: Generate patient invoices

Screens: Charge Capture, Insurance Calculator, Payment Terminal

Interaction:

- Auto-calculates fees based on services rendered
- Apply insurance discounts → generate final bill
- Multiple payment options (cash/card/installments)

6. Lab Test Orders

Description: Request diagnostic tests

Screens: Test Requisition Form, Barcode Label Printer, Results Viewer

Interaction:

- Doctors: Order tests → print specimen labels
- Lab Techs: Scan barcodes → record results
- Critical results trigger immediate alerts

7. Inventory Tracking

Description: Medical supply management

Screens: Stock Dashboard, Reorder Alerts, Expiry Tracker

Interaction:

- Scan items in/out → automatic stock level updates

- Color-coded low stock warnings
- Batch tracking for recalls

8. Staff Management

Description: Employee directory
Screens: HR Portal, Shift Scheduler, Credential Tracker
Interaction:

- View staff by department → check schedules
- Track license expirations → send renewal reminders
- Role-based access controls

9. Patient History

Description: View past treatments
Screens: Timeline View, Treatment Summary, Chart Search
Interaction:

- Chronological display of all encounters
- Filter by treatment type (meds/procedures)
- Secure sharing with other providers

10. Insurance Claims

Description: Process coverage requests
Screens: Claim Form, Status Tracker, Denial Management
Interaction:

- Auto-populate from patient records → submit electronically
- Track claim status → resubmit if denied
- Generate monthly reimbursement reports