

# DiagnosisAI - Wireframes & UI Specification

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**Version:** 2.0

**Last Updated:** December 28, 2025

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## Design Principles

### Core Philosophy

- **Patient-Centric Architecture:** Every feature organized around individual patient profiles
- **Color-Coded Severity:** Visual urgency indicators without text labels
- **Minimal Cognitive Load:** Clean interfaces optimized for high-volume clinical workflows
- **Touch-Optimized:** Designed for mobile-first interaction
- **Offline-First:** Works without internet connectivity

## Visual Language

- **Clean & Modern:** iOS-inspired interface with ample white space
  - **Gradient Accents:** Purple gradient (667eea → 764ba2) for primary actions
  - **Color-Coded Context:** Red (critical), Orange (moderate), Green (routine)
  - **Typography:** SF Pro Display / system fonts for native feel
  - **Rounded Corners:** 16px border radius for cards, 12px for buttons
- 

## Color System

### Primary Colors

```
Primary Gradient: linear-gradient(135deg, #667eea 0%, #764ba2 100%)  
Background: #f8fafc (light gray)  
Card Background: #ffffff (white)
```

### Urgency Colors

```
Critical:  
  Border: #dc2626 (red-600)  
  Background: linear-gradient(to right, #fef2f2, #ffffff)  
  
Moderate:  
  Border: #f59e0b (orange-500)  
  Background: linear-gradient(to right, #fffbeb, #ffffff)  
  
Routine:  
  Border: #059669 (green-600)  
  Background: #ffffff
```

## Text Colors

Primary Text: #1e293b (slate-900)  
Secondary Text: #64748b (slate-500)  
Tertiary Text: #94a3b8 (slate-400)  
Link/Accent: #667eea (purple)  
Success: #059669 (green-600)  
Error: #dc2626 (red-600)

## UI Elements

Borders: #e2e8f0 (slate-200)  
Dividers: #f1f5f9 (slate-100)  
Disabled: #cbd5e1 (slate-300)  
Shadow: rgba(0,0,0,0.05)

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# Screen Hierarchy

## Level 1: Home (Patient List)



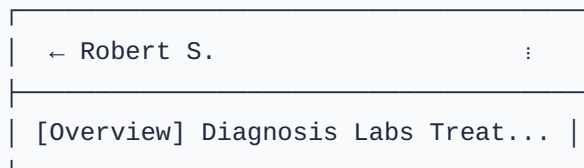
### Key Features:

- Patient cards with 6px colored left border indicating urgency
- Chief complaint preview (truncated)

- Tap any card to open patient profile
  - Search bar for filtering patients
  - Quick stats at bottom
  - Add new patient button
- 

## Level 2: Patient Profile (Tabbed Interface)

### Tab Navigation



#### Five Tabs:

1. Overview - Patient info, vitals, current assessment
  2. Diagnosis - Differential diagnoses ranked by likelihood
  3. Labs - Lab results input and AI interpretation
  4. Treatment - Protocols, checklists, medications
  5. Notes - Auto-generated clinical documentation
-

Tab 1: Overview

← Robert S.

[Overview] Diagnosis Labs Treat...

Patient Info

Age: 45 years   Gender: Male

Visit: 2:30 PM   Status:

Chief Complaint

Chest pain radiating to  
left arm, shortness of  
breath, diaphoresis.  
Duration: 30 minutes.

Vital Signs

BP	HR	SpO2	Temp
160/95	102	96%	98.2°F
<span></span>	<span></span>	✓	✓

Current Assessment

Probable acute myocardial  
infarction. ECG and  
troponin ordered.  
Cardiology consult pending.

← Red background

Key Features:

- Demographic summary
- Full chief complaint

- Color-coded vital signs (red if abnormal)
  - Current assessment with urgency background
  - Quick access to all patient context
-

Tab 2: Diagnosis

← Robert S.

Overview [Diagnosis] Labs Treat...

Differential Diagnosis

Myocardial Infarction  
78% likelihood • I21.9  
  
Supporting: Substernal pain with radiation, diaphoresis, elevated vitals, male 45+

Unstable Angina  
65% likelihood • I20.0  
  
Supporting: Similar presentation pattern

GERD  
35% likelihood • K21.9  
  
Supporting: Common cause of chest discomfort

Evidence Base

2,847   47   2023

Cases   Studies   Guidelines

← Red left border

← Orange left border

← Green left border

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**Key Features:**

- Diagnoses ranked by likelihood percentage
  - ICD-10 codes displayed
  - Supporting evidence for each diagnosis
  - Color-coded urgency borders
  - Evidence base statistics
  - Tap any diagnosis for detailed view
-

## Tab 3: Labs

← Robert S.

⋮

Overview Diagnosis [Labs] Treat...

Lab Values

HEMOGLOBIN

[ 8.2 ] g/dL

WBC COUNT

[ 15.2 ] ×10<sup>3</sup>/μL

CREATININE

[ 1.8 ] mg/dL

TROPONIN

[ 0.8 ] ng/mL

[ Analyze Results ]

AI Interpretation

Hemoglobin 8.2 g/dL

Normal: 13.5-17.5 g/dL

Moderate anemia. Consider iron studies and transfusion threshold.

Troponin 0.8 ng/mL

Normal: <0.04 ng/mL

← Red left border

← Red left border

CRITICAL: Elevated troponin  
consistent with myocardial  
injury.

#### Clinical Correlation

Lab pattern suggests ACS  
with possible bleeding.  
Consider serial troponins  
and GI workup for anemia.

[ Export Lab Report]

#### Key Features:

- Full-width input fields stacked vertically
- One-tap "Analyze Results" button
- AI interpretation with normal ranges
- Abnormal values highlighted with red borders
- Clinical correlation synthesizing all results
- Export functionality

## Tab 4: Treatment

← Robert S.

Overview Diagnosis Labs [Treatment]

TIME CRITICAL  
Door-to-balloon: 90 minutes

1. Immediate Actions

- ☐ Call cardiology consult
- ☐ Aspirin 325mg PO
- ☐ Oxygen if SpO2 < 90%
- ☐ Establish IV access

2. Diagnostic Workup

- ☒ 12-lead ECG (stat)
- ☒ Cardiac troponin
- ☐ Chest X-ray

 View Full STEMI Protocol



 Check Drug Interactions

← Red background

### Key Features:

- Time-critical alerts at top
- Interactive checklists (tap to toggle)
- Organized by protocol steps
- Links to full protocols
- Drug interaction checking
- Clear visual hierarchy

## Tab 5: Notes

← Robert S.	:
Overview Diagnosis Labs Treat [Notes]	
Clinical Note	
<div> <div>CHIEF COMPLAINT: Chest pain</div> <div> HPI: 45 y/o male presents with acute onset substernal chest pain radiating to left arm, associated with SOB... </div> <div> VITALS: BP: 160/95   HR: 102 SpO2: 96%   Temp: 98.2°F </div> <div> ASSESSMENT: 1. Acute Myocardial Infarction (I21.9) HIGH (78%) 2. Unstable Angina (I20.0) CONSIDER (65%) </div> <div> PLAN: - STAT ECG - Cardiac biomarkers - Aspirin 325mg PO given - Cardiology consult </div> <div>DISPOSITION: Admit CCU</div> </div>	
[ Copy to Clipboard ]	
[  Edit Note ]	
[  Send to EMR ]	

**Key Features:**

- Auto-generated SOAP format
  - Monospace font for clinical documentation
  - Copy, edit, and send functions
  - Professional medical documentation style
  - Includes all relevant patient data
-

### Level 3: Analytics Dashboard

← Analytics ↗

[Daily] Weekly Monthly Yearly

Today - December 28, 2025

12

Patients

+3 from

yesterday

3

Urgent

+1 from

yesterday

2.4h

Avg Time

-0.3h

8

Completed

4 active

Hourly Patient Volume

8AM 10 12 2PM 4 6 8 Now

Today's Diagnoses

MI

2

Pneumonia

3

GERD

4

Urgency Breakdown

3

5

4

CriticalModerateRoutine

← Red/Orange/Green



**Four Time Views:**

- **Daily:** Hourly volume, today's diagnoses, urgency breakdown
  - **Weekly:** Daily volume chart, top 5 diagnoses, outcomes
  - **Monthly:** Weekly trends, top 10 diagnoses, performance metrics
  - **Yearly:** Monthly volume, diagnosis categories, annual summary
-

## Level 4: Settings

← Settings

[SC] Dr. Sarah Chen →

Internal Medicine

License: CA-123456 ✓

GENERAL PREFERENCES

Voice Input [•]

Enable voice-to-text

Auto-save Notes [•]

Automatically save notes

Offline Mode [•]

Access cached data

Language [English ▼]

App display language

NOTIFICATIONS

Critical Lab Results [•]

Alert for abnormal values

Patient Follow-ups [•]

Reminders for check-ins

Drug Interactions [•]

Medication conflicts

New Guidelines [○]

Clinical guideline updates

Sound [•]

Notification sounds

CLINICAL SETTINGS

Specialty Focus [Cardiology▼]
Prioritize diagnoses
AI Confidence [50% ▼]
Minimum threshold
Show ICD-10 Codes [•]
Display with diagnoses
Auto-order Labs [•]
Suggest labs for diagnoses
Evidence Citations [•]
Show PubMed references
[Scroll for more sections...]

**Settings Sections:**

1. General Preferences (4 controls)
2. Notifications (5 controls)
3. Clinical Settings (5 controls)
4. Display & Interface (5 controls)
5. Privacy & Security (4 controls)
6. Data Management (3 items + actions)
7. Integrations (3 systems)
8. About (version, terms, support)

# Component Library

## 1. Patient Card

Component: PatientCard

Size: Full width × 120px

States: Default, Active, Pressed

Structure:

NAME	URGENCY
Age • Gender • Timestamp	
CC: Chief complaint text...	

Border Left: 6px solid (color based on urgency)

Background: White with subtle gradient on urgent/moderate

Border Radius: 16px

Padding: 20px

Gap: 12px between elements

## 2. Diagnosis Card

Component: DiagnosisCard

Size: Full width × Variable

States: Default, Expanded

Structure:

DIAGNOSIS NAME
XX% likelihood • ICD-10: XXX
Supporting: Evidence text...

Border Left: 6px solid (color based on urgency)

Border Radius: 16px

Padding: 20px

### 3. Lab Result Card

Component: LabResultCard  
 Size: Full width × Variable

Structure:

LAB NAME	VALUE	UNITS
Normal: XX-XX	units	
Interpretation text...		

Border Left: 4px solid (green=normal, red=abnormal)  
 Border Radius: 16px  
 Padding: 20px

### 4. Stat Card

Component: StatCard  
 Size: ~170px × 100px

Structure:

XX	← Large number
Label Text	
+X% change	← Trend indicator

Border: 2px solid #e2e8f0  
 Border Radius: 16px  
 Padding: 20px  
 Text Align: Center

## 5. Toggle Switch

Component: ToggleSwitch

Size: 51px × 28px

States: Off, On

Off: Background #cbd5e1, Circle left

On: Background purple gradient, Circle right

Animation: 0.3s ease

## 6. Primary Button

Component: PrimaryButton

Size: Full width × 48px

Background: Purple gradient

Color: White

Font Weight: 600

Border Radius: 16px

Padding: 16px

Active State: Translate Y +2px

## 7. Secondary Button

Component: SecondaryButton

Size: Full width × 44px

Background: White

Border: 2px solid #e2e8f0

Color: #475569

Font Weight: 500

Border Radius: 14px

Padding: 14px

Active State: Background #f8fafc

## 8. Tab Button

Component: TabButton  
Size: Auto × 40px  
  
Default: Background #f8fafc, Color #64748b  
Active: Purple gradient background, Color white  
Border Radius: 12px  
Padding: 10px 16px  
Font Weight: 600

## 9. Input Field

Component: InputField  
Size: Full width × 48px  
  
Border: 2px solid #e2e8f0  
Border Radius: 12px  
Padding: 14px 16px  
Font Size: 17px  
Focus: Border #667eea, Shadow 0 0 0 3px rgba(102,126,234,0.1)

## 10. Section Header

Component: SectionLabel  
Size: Auto × Auto  
  
Font Size: 13px  
Font Weight: 600  
Color: #64748b  
Text Transform: Uppercase  
Letter Spacing: 0.5px  
Margin Bottom: 12px



# User Flows

## Flow 1: New Patient Diagnosis

```
Start → Home Screen
↓
Tap [+ New Patient]
↓
Enter patient info (name, age, gender)
↓
Enter chief complaint
↓
Tap [Create Patient & Start Diagnosis]
↓
Patient Profile opens (Overview tab)
↓
Review patient info and vitals
↓
Navigate to Diagnosis tab
↓
View differential diagnoses
↓
Tap top diagnosis for details
↓
Navigate to Labs tab
↓
Enter lab values
↓
Tap [Analyze Results]
↓
Review AI interpretation
↓
Navigate to Treatment tab
↓
Review protocol
↓
Check off completed actions
↓
Navigate to Notes tab
↓
Review auto-generated note
↓
Tap [Send to EMR]
↓
End
```

## Flow 2: Review Existing Patient

```
Start → Home Screen
↓
Search or scroll to find patient
↓
Tap patient card
↓
Patient Profile opens (Overview tab)
↓
Review current status
↓
Navigate to desired tab (Diagnosis/Labs/Treatment/Notes)
↓
Perform action (view results, update treatment, etc.)
↓
Return to Home
↓
End
```

## Flow 3: View Analytics

```
graph TD; Start[Start → Home Screen] --> Tap[Tap [📊] icon in header]; Tap --> Opens[Analytics screen opens (Daily tab default)]; Opens --> ReviewToday[Review today's metrics]; ReviewToday --> TapTab[Tap [Weekly/Monthly/Yearly] tab]; TapTab --> ReviewTrends[Review longer-term trends]; ReviewTrends --> Scroll[Scroll to view all charts and data]; Scroll --> TapExport[Tap [↗] to export (optional)]; TapExport --> ReturnHome[Return to Home]; ReturnHome --> End[End];
```

Start → Home Screen

↓

Tap [📊] icon in header

↓

Analytics screen opens (Daily tab default)

↓

Review today's metrics

↓

Tap [Weekly/Monthly/Yearly] tab

↓

Review longer-term trends

↓

Scroll to view all charts and data

↓

Tap [↗] to export (optional)

↓

Return to Home

↓

End

## Flow 4: Configure Settings

```
Start → Home Screen
↓
Tap [⚙️] icon in header
↓
Settings screen opens
↓
Scroll to desired section
↓
Toggle switches or select dropdowns
↓
Changes auto-save
↓
Return to Home
↓
Settings applied
↓
End
```

## Responsive Behavior

### Mobile (< 450px)

- Phone frame fills screen ( $\text{calc}(100\text{vh} - 20\text{px})$ )
- All cards stack vertically
- Tab navigation horizontal scroll
- Reduced padding on small screens
- Font sizes scale proportionally

### Tablet (450px - 768px)

- Maintain phone-like interface
- Slightly larger touch targets
- Keep single-column layout

- Center content with max-width

## Desktop (> 768px)

- Center phone frame (max-width: 390px)
  - Add background gradient
  - Maintain mobile-first design
  - No multi-column layouts
- 

# Accessibility

## Color Contrast

- All text meets WCAG AA standards
- Minimum contrast ratio: 4.5:1 for normal text
- Color never sole indicator (always paired with borders/text)

## Touch Targets

- Minimum tap target: 44×44px (iOS standard)
- Adequate spacing between tappable elements
- Clear visual feedback on interaction

## Typography

- Base font size: 15px (readable on mobile)
- Adjustable in settings (Small/Medium/Large)
- System fonts for native feel and accessibility

## Motion

- Reduced motion respects system preferences
- Optional: Disable animations in settings

- Transitions: 0.2-0.3s (not too fast)
- 

## Design Notes

### Why Patient-Centric Architecture?

Originally designed with symptom-input-first workflow, but feedback from doctors revealed they need complete patient context for clinical decisions. Restructured to organize everything around individual patient profiles with tabbed navigation.

### Why Color-Coding Without Emojis?

Emojis felt unprofessional for medical software. Color-coded borders provide instant visual urgency indicators while maintaining a clean, clinical aesthetic.

### Why Vertical Lab Inputs?

Initially used 2-column grid, but vertical stacking provides:

- Better readability of lab names
- Easier tap targets on mobile
- No text truncation
- Clearer visual hierarchy

### Why Tab Navigation?

Five distinct contexts (Overview, Diagnosis, Labs, Treatment, Notes) needed clear separation. Tabs provide:

- Quick context switching
  - Reduced cognitive load
  - Familiar iOS pattern
  - Each tab focused on single task
- 

## End of Wireframes Document