

MEDLYGO

Hospital Patient Booking System

WIREFRAME & UI SPECIFICATION

Version 1.0
January 2026

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1. Design System

The MedlyGo design system establishes consistent visual language across all platforms. It prioritizes accessibility, clarity, and trust - essential qualities for a healthcare application serving diverse users in Ghana.

1.1 Color Palette

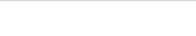
Primary Colors

Swatch	Name	Hex	Usage
	Primary	#1E6091	Headers, primary buttons, links, focus states
	Secondary	#2C8C6E	Success states, confirmations, secondary actions
	Accent	#E67E22	CTAs, highlights, notifications badges

Semantic Colors

Swatch	Name	Hex	Usage
	Success	#16A34A	Confirmed appointments, success messages
	Warning	#F59E0B	Pending states, reminders, cautions
	Error	#DC2626	Cancellations, errors, destructive actions
	Info	#0EA5E9	Informational messages, tooltips

Neutral Colors

Swatch	Name	Hex	Usage
	Gray 900	#0F172A	Primary text, headings
	Gray 700	#334155	Secondary text, labels
	Gray 500	#64748B	Placeholder text, disabled states
	Gray 300	#CBD5E1	Borders, dividers
	Gray 100	#F1F5F9	Backgrounds, cards
	White	#FFFFFF	Page background, card surfaces

1.2 Typography

Style	Font	Size / Weight	Usage
Display	Inter	48px / Bold	Hero sections, landing
Heading 1	Inter	32px / Semibold	Page titles
Heading 2	Inter	24px / Semibold	Section headers
Heading 3	Inter	20px / Semibold	Card titles, subsections
Body	Inter	16px / Regular	Paragraphs, descriptions
Body Small	Inter	14px / Regular	Captions, helper text
Label	Inter	14px / Medium	Form labels, buttons

1.3 Spacing & Grid

Spacing Scale

Token	Value	Usage
space-1	4px	Tight spacing, icon gaps
space-2	8px	Small gaps, inline elements
space-3	12px	Form field padding
space-4	16px	Card padding, button padding
space-6	24px	Section spacing, card gaps
space-8	32px	Large section margins

Grid System

- Desktop: 12-column grid, 1200px max-width, 24px gutter
- Tablet: 8-column grid, 768px breakpoint, 16px gutter
- Mobile: 4-column grid, 375px min-width, 16px gutter

1.4 Component Library

All components are built using shadcn/ui with Tailwind CSS styling.

Buttons

Variant	Style	Usage
Primary	Filled, Primary color	Main CTAs, form submissions
Secondary	Outlined, Primary color	Secondary actions, cancel

Ghost	Text only, hover bg	Tertiary actions, nav links
Destructive	Filled, Error color	Delete, cancel appointment

Form Inputs

- Text Input: 44px height, 12px padding, 8px border-radius
- Select: Dropdown with search, multi-select support
- Date Picker: Calendar popup, disabled past dates for booking
- Time Picker: 30-minute slots, visual availability indicators
- Phone Input: Country code selector with Ghana default (+233)

Cards

- Border radius: 12px
- Shadow: 0 1px 3px rgba(0,0,0,0.1)
- Padding: 24px (desktop), 16px (mobile)
- Hover state: Subtle shadow increase for interactive cards

2. Patient Portal

The patient portal is the primary interface for patients to book, manage, and track their healthcare appointments.

2.1 Landing Page

Layout Structure

HEADER / NAVIGATION

[Logo] MedlyGo
[Language ▾]
[Login]
[Sign Up]

HERO SECTION

Book Your Hospital Appointment

Skip the queue. Book appointments at public hospitals across Ghana.

[Search hospitals, departments, or symptoms...]
[Book Appointment]
[Check Existing Booking]

HOW IT WORKS

```

graph LR
    A[1. Select Hospital] --> B[2. Choose Date/Time]
    B --> C[3. Confirm & Book]
  
```

FOOTER: [About](#) | [Contact](#) | [Privacy](#) | [Terms](#) | [Languages](#)

Header Components

- Logo: MedlyGo wordmark, links to homepage
- Language Selector: Dropdown with English, Twi, Ga, Ewe, Hausa
- Login/Sign Up: Text buttons, Sign Up has accent color
- Mobile: Hamburger menu with slide-out navigation

2.2 Authentication Screens

Login Screen

The wireframe illustrates the layout of the Sign Up screen. It features a top section with input fields for 'Email or Phone Number' and 'Password', followed by a 'Sign In Button'. Below this, a horizontal line with arrows indicates the option to 'Or continue with'. Underneath, there are two buttons: '[G] Google' and '[OTP] Phone OTP'. At the bottom, a link reads 'Don't have an account? Sign Up'.

Sign Up Screen

- Step 1: Phone number with OTP verification
- Step 2: Basic info (Full name, Email, Date of birth)
- Step 3: Password creation with strength indicator
- Step 4: Ghana Card ID (optional but recommended)
- Progress indicator: Stepper showing current step

2.3 Hospital & Department Selection

Hospital Selection Screen

SELECT HOSPITAL

[Search hospitals...]
[Near Me]
[Filter ▼]

Korle Bu Teaching Hospital

Accra, Greater Accra Region
 2.3 km

4.2 (1,247 reviews)

Open 24/7

37 Military Hospital

Accra, Greater Accra Region
 4.1 km

4.5 (892 reviews)

Open 24/7

Ridge Hospital

Accra, Greater Accra Region
 3.8 km

4.0 (654 reviews)

Open 24/7

Department Selection Screen

- Grid layout of department cards with icons
- Common departments: General Medicine, Pediatrics, Obstetrics & Gynecology, Cardiology, Orthopedics, Dermatology, ENT, Ophthalmology, Dental
- Search bar for finding specific departments
- "Not sure?" option links to AI assistant for symptom-based recommendations

2.4 Appointment Booking Flow

Date & Time Selection

SELECT DATE	SELECT TIME																																										
January 2026 <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <tr> <td>Su</td><td>Mo</td><td>Tu</td><td>We</td><td>Th</td><td>Fr</td><td>Sa</td> </tr> <tr> <td> </td><td> </td><td> </td><td>1</td><td>2</td><td>3</td><td>4</td> </tr> <tr> <td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td> </tr> <tr> <td>12</td><td>13</td><td>14</td><td>[15]</td><td>16</td><td>17</td><td>18</td> </tr> <tr> <td>19</td><td>20</td><td>21</td><td>22</td><td>23</td><td>24</td><td>25</td> </tr> <tr> <td>26</td><td>27</td><td>28</td><td>29</td><td>30</td><td>31</td><td> </td> </tr> </table>	Su	Mo	Tu	We	Th	Fr	Sa				1	2	3	4	5	6	7	8	9	10	11	12	13	14	[15]	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		Available Slots Morning [8:00] [8:30] [9:00] [9:30] [10:00] [10:30] [11:00] Afternoon [14:00] [14:30] [15:00] [15:30] [16:00]
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Booking Confirmation

- Summary card showing: Hospital, Department, Provider (if selected), Date, Time
- Reason for visit: Text area (optional)
- Notification preferences: SMS, Email toggles
- Terms acceptance checkbox
- "Confirm Booking" primary button

2.5 Patient Dashboard

Dashboard Layout



The wireframe for the Patient Dashboard is a card-based layout. At the top, a blue header bar contains the text "PATIENT DASHBOARD". Below the header, a greeting "Good morning, Kwame! 🙌" is displayed. A message "You have 1 upcoming appointment" is shown. The main content area is divided into two sections: "UPCOMING" and "QUICK ACTIONS". The "UPCOMING" section lists the following details for an appointment: "Wednesday, Jan 15, 2026", "9:30 AM", "Korle Bu Teaching Hospital", "General Medicine". To the right of these details are three "QUICK ACTIONS" buttons: "[+ Book New]", "[⟳ AI Assistant]", and "[📅 View History]". At the bottom of the "UPCOMING" section are three buttons: "[Reschedule]", "[Cancel]", and "[View]".

Dashboard Components

- Greeting: Personalized with user's first name and time of day
- Upcoming Appointments: Card list with next 3 appointments
- Quick Actions: Book new, AI assistant, View history
- Appointment History: Filterable list with status badges
- Notifications: Bell icon with unread count badge

2.6 Profile & Settings

- Personal Information: Name, phone, email, date of birth, Ghana Card
- Emergency Contact: Name, relationship, phone number
- Notification Preferences: SMS/Email toggles for reminders
- Language Preference: Dropdown selector
- Account Security: Change password, MFA setup
- Delete Account: With confirmation flow

3. Provider Dashboard

The provider dashboard enables healthcare staff to manage schedules, view patient queues, and handle appointments efficiently.

3.1 Provider Home

Dashboard Overview

PROVIDER DASHBOARD - Dr. Mensah

TODAY'S STATS
TODAY'S STATS
TODAY'S STATS

12
Total Appts
 5
Completed
 7
Remaining

PATIENT QUEUE [\[View All →\]](#)

#	Patient Name	Time	Status	Action
1	Ama Serwaa	9:00	Checked	[Start Consultation]
2	Kofi Asante	9:30	Waiting	[Check In]
3	Abena Mensah	10:00	Schedul	[Check In]

3.2 Schedule Management

- Week view calendar with time slots
- Drag-and-drop rescheduling
- Block time slots for breaks/meetings
- Set recurring availability patterns
- Color-coded appointment types

3.3 Patient Queue

- Real-time queue updates
- Patient check-in status indicators
- Quick actions: Check in, Start consultation, No-show, Reschedule
- Patient brief: Previous visits, notes, allergies

3.4 Appointment Details

- Patient information panel
- Visit history timeline
- Notes editor for consultation

- Follow-up scheduling
- Referral creation

4. Admin Console

The admin console provides hospital administrators with tools to manage staff, monitor performance, and configure system settings.

4.1 Admin Dashboard

- Key metrics: Total appointments, No-show rate, Average wait time, Patient satisfaction
- Charts: Appointment trends, Department utilization, Peak hours
- Alerts: System notifications, low-capacity warnings
- Quick links: User management, Reports, Settings

4.2 Hospital Management

- Department configuration: Add/edit departments, assign providers
- Provider management: Onboard new providers, manage credentials
- Schedule templates: Default working hours, holiday schedules
- Capacity settings: Appointment slots per hour, buffer times

4.3 Analytics & Reports

- Appointment analytics: Volume trends, cancellation rates, no-show patterns
- Provider performance: Appointments handled, patient ratings
- Patient demographics: Age distribution, location heatmap
- Export options: PDF reports, CSV data downloads

5. AI Chat Widget

The AI chat widget provides conversational assistance for booking appointments and answering healthcare-related queries.

5.1 Chat Interface



Widget Specifications

- Position: Bottom-right corner, 24px from edges
- Collapsed state: Circular button (56px) with chat icon
- Expanded state: 380px width × 520px height (desktop)
- Mobile: Full-screen modal overlay
- Typing indicator: Animated dots during AI response

5.2 Conversation Flows

Booking Flow

- Symptom description → Department suggestion → Hospital selection → Date/time → Confirmation

Query Flow

- Question → Search knowledge base → Provide answer with sources

Appointment Management

- User identification → Show appointments → Allow reschedule/cancel

6. Responsive Design

6.1 Breakpoints

Breakpoint	Width	Target Devices
Mobile	< 640px	Smartphones (portrait)
Tablet	640px - 1024px	Tablets, large phones (landscape)
Desktop	> 1024px	Laptops, desktops, large tablets

6.2 Mobile Adaptations

- Navigation: Hamburger menu with slide-out drawer
- Cards: Stack vertically, full-width
- Tables: Horizontal scroll or card view transformation
- Calendar: Single column day view
- Forms: Full-width inputs, larger touch targets (44px min)
- Buttons: Full-width on mobile, 48px height minimum
- Chat widget: Full-screen modal instead of floating

7. Accessibility Guidelines

MedlyGo is designed to be accessible to all users, including those with disabilities. The following guidelines ensure WCAG 2.1 AA compliance.

7.1 Color Contrast

- Text: Minimum 4.5:1 contrast ratio for normal text
- Large text: Minimum 3:1 contrast ratio (18px+ bold, 24px+ regular)
- Interactive elements: Clear focus indicators (2px outline)
- Never rely on color alone to convey information

7.2 Keyboard Navigation

- All interactive elements focusable via Tab key
- Logical tab order following visual layout
- Skip links for main content
- Escape key closes modals and dropdowns

7.3 Screen Reader Support

- Semantic HTML elements (nav, main, article, aside)
- ARIA labels for icons and non-text elements
- Live regions for dynamic content updates
- Form labels properly associated with inputs

7.4 Touch Accessibility

- Touch targets: Minimum 44×44 pixels
- Adequate spacing between interactive elements
- Gestures have alternative button controls
- No hover-only interactions on mobile

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