

# **HealthCare Monitor UX Document**

*– Elderly Health Companion*

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## 1. Design Process

### Discovery & Research

- Engaged key stakeholders (patients, caregivers, healthcare professionals) through interviews and surveys to pinpoint core goals: streamlined health tracking, strong privacy, and easy doctor-patient communication.
- Mapped common pain points: fragmented medical data, poor compliance with monitoring regimens, difficulty accessing timely alerts and emergency help.
- Researched health compliance norms—emphasizing HIPAA and GDPR requirements for digital health products.

### Ideation & Prototyping

- Developed user personas (elderly patients, chronic condition sufferers, physicians) to reflect typical target groups in digital health.
- Crafted journey maps to visualize flows: onboarding, daily monitoring, urgent alerts, and health data review.
- Generated low-fidelity wireframes prioritizing intuitive navigation, accessibility (scalable fonts, high color contrast), and clear feedback for users.
- Built interactive prototypes for stakeholder walkthroughs and feedback loops .

### Usability Testing & Iteration

- Conducted task-based tests with diverse user groups to ensure rapid data entry, clear trend visualization, and robust emergency access.
- Applied iterative refinements based on real medical use cases and feedback—optimizing navigation, reducing cognitive load, and enhancing alert mechanisms.

## 2. Information Architecture

Section	Description
Onboarding/Login	Simple, secure access; user-role-based flows
Dashboard	Real-time snapshot of vitals, medications, alerts
Monitoring	Input for vital signs (BP, HR, glucose); device integrations
History & Trends	Health stats visualization; timeline filters
Reminders/Notifications	Medication, appointment, and measurement reminders
Emergency	SOS functionality for instant caregiver/medical alert
Profile/Settings	Personal information, sharing options, language/accessibility

### 3. Key UX Features

- **Clean visual hierarchy** for focused, at-a-glance data monitoring.
- **Quick-entry modules** for vitals with device (Bluetooth/wearable) support.
- **Color-coded alerts** signposting critical health deviations or emergencies.
- **Large, universally recognizable icons** for greater accessibility.
- **Support for patient and provider/caregiver modes.**
- **Export and share options** for health summaries with care teams.

### 4. Research & Insights

- Patients **demand easy tracking, strict privacy, accessible reminders, and sharing abilities with family/caregivers.**
- Providers/Doctors **value continuity, trend analytics, simple summary exports, and efficient compliance tools.**
- **Key challenges:** building trust in digital health, seamless device integration, securing sensitive health data, and fostering daily engagement

### 5. Competitor Analysis

App Name	Strengths	Weaknesses
Medisafe	Pill reminders, visual dashboards, family sharing	Weak on historical trend analytics
HealthViewX	Data-rich trends, EHR integration	Onboarding can be complex for new users
PaceMateLIVE	Cardiac wearable/device integration, workflow support	Niche focus on cardiac care, pricier
Huma	Wearable integration, real-time alerts	Complexity for basic monitoring needs
League	End-to-end health management, employer support	Some consumer-facing features limited

### 6. Accessibility & Compliance

- **Complies with WCAG** for text sizing, contrast, color-blind safety, and screen reader support.
- **User-controlled language and localization.**
- **Secured, encrypted handling of all patient data as per HIPAA/GDPR guidelines.**

## 7. User Personas

Include 2–3 personas:

Example:

- Michael (Age 74) – Elderly user living alone
- Goals: Simple UI, reminders, emergency help
- Anjali (Age 36) – Daughter working in another city
- Goals: Monitor father's vitals, quick alerts

## 8. Example User Flow

Securely log in; dashboard presents a real-time overview.

Log vitals manually or via device sync in a few taps.

Receive reminders and notifications for actions or emerging alerts.

Review history through interactive charts (filter by day/week/month).

Tap SOS at any time in case of emergency—sending alerts to designated contacts.

Export and share comprehensive reports with healthcare teams as needed.

Prototype:[Link](#)

Figma files for High-fidelity screens:[Link](#)