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Adaptive UI Documentation

Overview





AutomaSpec implements a fully responsive interface that adapts seamlessly across mobile, tablet, and desktop devices while maintaining functionality and visual consistency.

Device Support

Three Device Types Supported





- **Mobile** (375px - 767px): Touch-optimized, single-column layout
- **Tablet** (768px - 1023px): Enhanced layouts with balanced information density
- **Desktop** (1024px+): Full two-panel dashboard with maximum functionality

Key Features




-  Relative units throughout (rem, em, %, vw, vh)
 -  No overlapping elements at any screen size
 -  Correct functionality with browser zoom
 -  Responsive breakpoints: 640px, 768px, 1024px, 1280px, 1536px
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Visual Criteria




Typography & Icons

-  Scalable fonts using relative units
-  SVG icons (Lucide React) - scale without distortion
-  Unified typography across all devices
-  Consistent color palette via CSS custom properties

Interactive Elements






-  Minimum 44px touch targets for mobile
-  WCAG 2.1 AA contrast compliance (4.5:1 minimum)
-  Accessible form elements and buttons

Theme Support

-  Light/Dark theme with smooth transitions
 -  System preference detection
 -  Theme toggle available throughout
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Structural Criteria

Adaptive Layout

-  Flexbox/Grid-based responsive system
-  Blocks scale appropriately with screen width
-  Navigation always accessible
-  Mobile: Sheet-based sidebar
-  Desktop: Fixed sidebar with collapse

Component Library

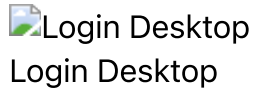
-  Reusable responsive components

-  Size variants (sm, md, lg)
 -  Mobile-aware dialogs and sheets
-

Screenshots

Login Page

Desktop (1920×1080)



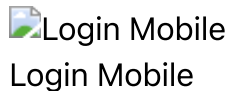
Features: - Centered layout with optimal spacing - Full-width form elements - Clear visual hierarchy

Tablet (768×1024)



Adaptations: - Maintained centered layout - Touch-friendly buttons - Readable typography

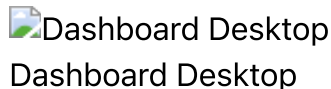
Mobile (375×667)



Adaptations: - Full-width form - Stacked social login buttons - Single-column layout

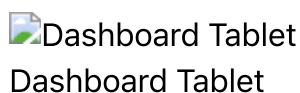
Dashboard Page

Desktop (1920×1080)



Layout: - Two-panel layout (50/50 split) - Tree navigation left, details panel right - Full header navigation

Tablet (768×1024)



Adaptations: - Responsive panel widths - Maintained two-column layout - Touch-optimized interactions

Mobile (375×667)



Dashboard Mobile

Adaptations: - Single-column stacked layout - Full-width panels - Mobile-optimized navigation

Technical Implementation




Framework & Tools

- **Next.js 16** - React framework
- **Tailwind CSS 4** - Utility-first CSS
- **TypeScript** - Type safety
- **Lucide React** - SVG icons

Responsive Features






- Custom `useIsMobile()` hook (breakpoint: 768px)
- Tailwind responsive utilities (`sm:` , `md:` , `lg:`)
- CSS custom properties for theming
- Container queries where applicable




Browser Support

-  Modern browsers (Chrome, Firefox, Safari, Edge)
 -  Mobile browsers (iOS Safari, Chrome Mobile)
 -  Full touch support
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Compliance Summary

Minimum Requirements

-  3 device types (mobile, tablet, desktop)
-  Correct display at different resolutions
-  Relative units throughout
-  Scalable fonts and icons
-  44px+ touch targets

-  WCAG 2.1 AA contrast
-  Adaptive grid system
-  Always accessible navigation

Enhanced Features

-  Light/dark theme support
 -  SVG icons throughout
 -  System theme detection
 -  Smooth theme transitions
 -  Mobile-optimized layouts
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Conclusion

AutomaSpec provides a comprehensive adaptive UI that meets all requirements for responsive design, ensuring functional consistency, visual integrity, and optimal user experience across all device types.