

**TruthLens UI Components - Website vs Mobile Differentiation**

**Website (Desktop) Components**

**1. Navigation & Layout**

* **Fixed Sidebar Navigation**: Persistent left panel (~200-250px wide)[[1]](#fn1)
  + Always visible navigation items
  + Vertical stacked menu items with icons
  + Collapsible/expandable functionality
* **Main Content Area**: Large horizontal real estate (remaining screen width)
* **Multi-column Layouts**: 4-column KPI grid, side-by-side forms[[2]](#fn2)[[3]](#fn3)

**2. Desktop-Specific Elements**

* **Hover States**: Interactive feedback on buttons and menu items[[4]](#fn4)
* **Tooltip Support**: Additional information on hover
* **Keyboard Navigation**: Tab index and shortcut support
* **Right-click Context Menus**: Advanced functionality access
* **Drag-to-Resize Sidebar**: Manual width adjustment[[5]](#fn5)

**3. Desktop Layout Patterns**[**[2]**](#fn2)[**[5]**](#fn5)

* **Horizontal Button Groups**: Multiple buttons in single row[[6]](#fn6)
* **Wide Form Layouts**: Two-column username/password forms
* **Large Text Areas**: Expansive content input fields
* **Dashboard Grid**: 4-column metrics display with spacing
* **Tabbed Interface**: Horizontal tab navigation with full labels

**4. Desktop Typography & Sizing**[**[4]**](#fn4)

* **Larger Font Sizes**: More readable at distance viewing
* **Generous Spacing**: Wider margins and padding
* **Detailed Labels**: Full descriptive text for all elements
* **Large Click Targets**: Standard mouse cursor precision

**Mobile (Responsive) Components**

**1. Navigation Adaptation**[**[7]**](#fn7)[**[1]**](#fn1)

* **Hamburger Menu**: Sidebar converts to collapsible overlay menu
  + Three-line menu icon trigger
  + Full-screen or slide-over navigation panel
  + Touch-friendly close buttons
* **Bottom Navigation**: Alternative tab bar at screen bottom
* **Sticky Headers**: Fixed top navigation bar

**2. Mobile-Specific Elements**[**[8]**](#fn8)[**[7]**](#fn7)

* **Touch Gestures**: Swipe navigation between tabs/sections
* **Pull-to-Refresh**: Content refresh gesture
* **Touch Targets**: Minimum 44px tap areas[[4]](#fn4)
* **Mobile Keyboards**: Optimized input types (email, number, url)
* **Device Integration**: Camera access, location services

**3. Mobile Layout Transformations**[**[7]**](#fn7)[**[2]**](#fn2)

**Stacked Components:**

Desktop: [Metric 1] [Metric 2] [Metric 3] [Metric 4]  
Mobile: [Metric 1]  
 [Metric 2]   
 [Metric 3]  
 [Metric 4]

**Form Adaptations:**

Desktop: [Username] [Password] [Login Button]  
Mobile: [Username]  
 [Password]  
 [Login Button - Full Width]

**4. Mobile Interface Patterns**[**[8]**](#fn8)[**[7]**](#fn7)

* **Card-Based Design**: Content in swipeable cards
* **Accordion Menus**: Collapsible sections to save space
* **Modal Overlays**: Full-screen forms and dialogs
* **Infinite Scroll**: Replace pagination for content loading
* **Floating Action Buttons**: Primary actions as circular FABs

**5. Mobile Typography & Sizing**[**[4]**](#fn4)

* **Larger Touch Targets**: 44-48px minimum button heights
* **Simplified Labels**: Abbreviated text, icon-heavy design
* **Responsive Font Scaling**: Text adapts to screen size
* **Reduced White Space**: Compact layouts for small screens

**Specific Component Breakdowns**

**Access Portal**

**Website**:[[9]](#fn9)

* Large gradient hero banner (full width)
* Side-by-side radio buttons with detailed descriptions
* Horizontal info boxes with generous padding

**Mobile**:

* Stacked radio buttons (vertical layout)
* Condensed hero banner (reduced height)
* Full-width info boxes with minimal padding

**Dashboard Metrics**[**[10]**](#fn10)[**[11]**](#fn11)

**Website**:

* 4-column horizontal grid layout
* Large metric numbers with detailed labels
* Hover effects for additional information

**Mobile**:

* 2x2 grid or vertical stack
* Condensed metric display
* Tap gestures for detail views

**Text Analyzer Interface**[**[12]**](#fn12)[**[13]**](#fn13)

**Website**:

* Wide text input areas (multi-column layout)
* Horizontal tab navigation
* Side-by-side form controls

**Mobile**:

* Full-width text areas
* Swipeable tab interface or dropdown tab selector
* Stacked form controls (vertical layout)

**System Status Panel**[**[1]**](#fn1)

**Website**:

* Detailed sidebar panel with full status labels
* Icon + text combinations
* Always visible status indicators

**Mobile**:

* Collapsed status bar or bottom sheet
* Icon-only status indicators with tap-to-expand
* Slide-up panel for detailed status

**Form Elements**[**[14]**](#fn14)[**[9]**](#fn9)[**[8]**](#fn8)

**Website**:

* Standard dropdown menus
* Multi-column form layouts
* Large clickable areas

**Mobile**:

* Native mobile pickers (iOS/Android style)
* Single-column form stacking
* Touch-optimized input fields with appropriate keyboards

**Responsive Breakpoints Strategy**[**[2]**](#fn2)[**[7]**](#fn7)

**Large Desktop (1200px+):**

* Full sidebar + 4-column layouts
* Maximum spacing and typography sizes
* Advanced hover interactions

**Medium Desktop/Tablet (768-1199px):**

* Collapsible sidebar or top navigation
* 2-3 column layouts
* Reduced spacing

**Small Tablet (480-767px):**

* Tab bar navigation
* 2-column maximum layouts
* Touch-friendly sizing begins

**Mobile (< 480px):**

* Single column layouts
* Hamburger navigation
* Stack all components vertically
* Maximum touch-target sizing

This differentiation ensures the TruthLens app provides optimal user experience across all device types while maintaining consistent functionality and visual hierarchy.[[3]](#fn3)[[11]](#fn11)[[5]](#fn5)[[6]](#fn6)[[9]](#fn9)[[10]](#fn10)[[14]](#fn14)[[1]](#fn1)[[7]](#fn7)[[8]](#fn8)[[2]](#fn2)[[4]](#fn4)

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1. <https://docs.streamlit.io/develop/api-reference/layout/st.sidebar>

1. <https://docs.kanaries.net/topics/Streamlit/streamlit-columns>

1. <https://docs.streamlit.io/develop/api-reference/layout/st.columns>

1. <https://www.uxpin.com/studio/blog/user-interface-elements-every-designer-should-know/>

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1. <https://stackoverflow.com/questions/69492406/streamlit-how-to-display-buttons-in-a-single-line>

1. <https://dev.to/jamesbmour/streamlit-part-6-mastering-layouts-4hci>

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1. <https://docs.streamlit.io/develop/api-reference/widgets/st.radio>

1. <https://stackoverflow.com/questions/78387794/streamlit-metric-alignment-with-delta>

1. <https://docs.streamlit.io/develop/api-reference/data/st.metric>

1. <https://docs.streamlit.io/develop/api-reference/layout/st.tabs>

1. <https://docs.kanaries.net/topics/Streamlit/streamlit-tabs>

1. <https://discuss.streamlit.io/t/drop-down-menu/3180>