

JCN Dashboard - UI/UX Quick Reference Guide

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Purpose: Quick reference for requesting UI changes, customizations, and design improvements

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Available Components

Layout Components

1. Header Component

Location: `frontend/src/components/layout/Header.tsx`

Features:

- Responsive navigation
- Mobile hamburger menu
- Logo/branding area
- Navigation links

How to Request Changes:

```
"Change the header background to dark blue"
"Add a search bar to the header"
"Make the header sticky on scroll"
"Change the logo to [upload image]"
"Add user profile dropdown to header"
```

2. Sidebar Component

Location: `frontend/src/components/layout/Sidebar.tsx`

Features:

- Navigation menu
- Active state highlighting
- Quick stats display
- Collapsible sections

How to Request Changes:

```
"Make the sidebar collapsible"
"Change sidebar background to gradient"
"Add icons to sidebar menu items"
"Reorder the navigation items"
"Add a footer section to sidebar"
```

3. MainLayout Component

Location: frontend/src/components/layout/MainLayout.tsx

Features:

- Page wrapper
- Consistent spacing
- Responsive grid

How to Request Changes:

```
"Add more padding around content"
"Change the max-width of content area"
"Add a breadcrumb navigation"
"Include a page title section"
```

Chart Components

1. Portfolio Performance Chart

Location: frontend/src/components/charts/PortfolioPerformanceChart.tsx

Type: Line + Area Chart

Library: Apache ECharts

Features: Benchmark comparison, tooltips, zoom controls

How to Request Changes:

```
"Change line color to green"
"Add more data points (daily instead of weekly)"
"Show percentage change instead of absolute values"
"Add a moving average line"
"Change chart height to 500px"
"Add a legend at the bottom"
"Make the area fill more transparent"
```

Color Options:

- #3b82f6 (blue) - Current portfolio line
 - #ef4444 (red) - Benchmark line
 - #10b981 (green) - Positive performance
 - #f59e0b (amber) - Warning/neutral
-

2. Sector Allocation Chart

Location: frontend/src/components/charts/SectorAllocationChart.tsx

Type: Doughnut Pie Chart

Library: Apache ECharts

Features: Interactive legend, tooltips, percentage display

How to Request Changes:

```
"Change to a full pie chart (not doughnut)"
"Use different colors for sectors"
"Show values instead of percentages"
"Add a data table below the chart"
"Make the chart bigger/smaller"
"Change the color scheme to [specify colors]"
```

Current Color Palette:

- Technology: #3b82f6 (blue)
- Healthcare: #10b981 (green)

- Finance: #f59e0b (amber)
 - Consumer: #8b5cf6 (purple)
 - Energy: #ef4444 (red)
-

3. Stock Price Chart

Location: frontend/src/components/charts/StockPriceChart.tsx

Type: Candlestick + Volume Chart

Library: Apache ECharts

Features: Zoom controls, volume bars, tooltips

How to Request Changes:

```
"Change candlestick colors (green/red to blue/orange)"
"Add moving average lines (50-day, 200-day)"
"Show MACD indicator below"
"Add RSI indicator"
"Change time range (1 month, 3 months, 1 year)"
"Make volume bars more prominent"
"Add Bollinger Bands"
```

Candlestick Colors:

- Up (bullish): #10b981 (green)
 - Down (bearish): #ef4444 (red)
-

4. Portfolio Radar Chart

Location: frontend/src/components/charts/PortfolioRadarChart.tsx

Type: Radar/Spider Chart

Library: Apache ECharts

Features: Multi-dimensional metrics, tooltips

How to Request Changes:

```
"Add more metrics (liquidity, momentum)"
"Change the shape to circular"
"Use different colors for each metric"
"Add comparison with benchmark"
"Make the chart bigger"
"Change axis labels"
```

Current Metrics:

- Quality Score
 - Value Score
 - Growth Score
 - Momentum Score
 - Stability Score
-

Table Components

1. Stock Table

Location: frontend/src/components/tables/StockTable.tsx

Type: Data Table

Library: TanStack Table

Features: Sorting, filtering, pagination, search

How to Request Changes:

```
"Add more columns (52-week high, dividend yield)"
"Change the default sort order"
"Add row highlighting on hover"
"Change pagination size (show 20 rows instead of 10)"
"Add export to CSV button"
"Make the table scrollable horizontally"
"Add color coding for positive/negative changes"
"Add sparkline charts in cells"
```

Available Columns:

- Symbol
 - Name
 - Price
 - Change
 - Change %
 - Volume
 - Market Cap
 - Sector
-

2. Metrics Table

Location: `frontend/src/components/tables/MetricsTable.tsx`

Type: Key-Value Table

Features: Change indicators, color coding

How to Request Changes:

```
"Add more metrics rows"
"Change the layout to cards instead of table"
"Add trend indicators (up/down arrows)"
"Change color scheme for positive/negative"
"Add tooltips explaining each metric"
"Make it a horizontal layout"
```

UI Elements

Loading States

Location: `frontend/src/components/layout/Loading.tsx`

Types Available:

- Spinner
- Card Skeleton

- Table Skeleton

How to Request Changes:

```
"Change spinner color to brand color"  
"Add a loading message"  
"Use a different animation (pulse, bounce)"  
"Add a progress bar"  
"Change skeleton colors"
```

Error Messages

Location: frontend/src/components/layout/ErrorMessage.tsx

Features: Error display, retry button

How to Request Changes:

```
"Change error message styling"  
"Add an icon to error messages"  
"Make errors dismissible"  
"Add different error types (warning, info, success)"  
"Change button colors"
```

Color Schemes & Themes

Current Color Palette

Primary Colors:

```
Blue:    #3b82f6 /* Primary actions, links */  
Green:   #10b981 /* Success, positive changes */  
Red:     #ef4444 /* Errors, negative changes */  
Amber:   #f59e0b /* Warnings, neutral */  
Purple:  #8b5cf6 /* Accent */
```


Neutral Colors:

```
Gray-50: #f9fafb /* Backgrounds */
Gray-100: #f3f4f6 /* Light backgrounds */
Gray-200: #e5e7eb /* Borders */
Gray-300: #d1d5db /* Dividers */
Gray-400: #9ca3af /* Disabled */
Gray-500: #6b7280 /* Secondary text */
Gray-600: #4b5563 /* Body text */
Gray-700: #374151 /* Headings */
Gray-800: #1f2937 /* Dark text */
Gray-900: #111827 /* Very dark text */
```

How to Request Color Changes

Example Requests:

```
"Change the primary color from blue to purple"
"Use a darker shade of green for positive changes"
"Change all red colors to orange"
"Add a gradient background to cards"
"Use a dark theme instead of light"
"Change the sidebar background to a gradient from #1e3a8a to #3b82f6"
```

Pre-defined Color Schemes

1. Professional Blue (Current)

- Primary: Blue (#3b82f6)
- Success: Green (#10b981)
- Danger: Red (#ef4444)
- **Use Case:** Financial, corporate

2. Modern Purple

- Primary: Purple (#8b5cf6)

- Success: Teal (#14b8a6)
- Danger: Pink (#ec4899)
- **Use Case:** Tech, creative

3. Classic Green

- Primary: Green (#10b981)
- Success: Emerald (#059669)
- Danger: Red (#dc2626)
- **Use Case:** Finance, investment

4. Bold Orange

- Primary: Orange (#f97316)
- Success: Green (#22c55e)
- Danger: Red (#ef4444)
- **Use Case:** Energetic, startup

5. Dark Mode

- Background: Dark (#111827)
- Text: Light (#f9fafb)
- Primary: Blue (#60a5fa)
- **Use Case:** Reduced eye strain

How to Request:

```
"Switch to Modern Purple color scheme"  
"Use Dark Mode theme"  
"Apply Classic Green colors"
```

Typography & Fonts

Current Font Stack

Sans-serif (Default):

```
font-family: ui-sans-serif, system-ui, -apple-system, BlinkMacSystemFont,  
            "Segoe UI", Roboto, "Helvetica Neue", Arial, sans-serif;
```

How to Change Fonts

Option 1: Google Fonts

Popular Choices:

- **Inter** - Modern, clean (great for dashboards)
- **Roboto** - Friendly, readable
- **Poppins** - Geometric, modern
- **Montserrat** - Bold, impactful
- **Open Sans** - Classic, versatile
- **Lato** - Warm, professional
- **Raleway** - Elegant, sophisticated

How to Request:

```
"Change font to Inter from Google Fonts"  
"Use Poppins for headings and Inter for body text"  
"Apply Montserrat font throughout"
```

Google Fonts Link: <https://fonts.google.com>

Option 2: Font Weights & Sizes

Current Sizes:

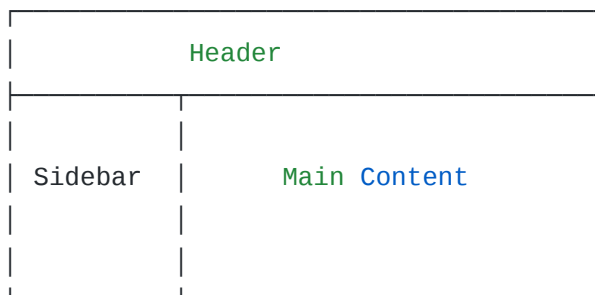
```
text-xs: 0.75rem (12px)
text-sm: 0.875rem (14px)
text-base: 1rem (16px)
text-lg: 1.125rem (18px)
text-xl: 1.25rem (20px)
text-2xl: 1.5rem (24px)
text-3xl: 1.875rem (30px)
text-4xl: 2.25rem (36px)
```

How to Request:

```
"Make all headings bigger"
"Increase body text size from 16px to 18px"
"Use bolder font weights for headings"
"Make the sidebar text smaller"
```

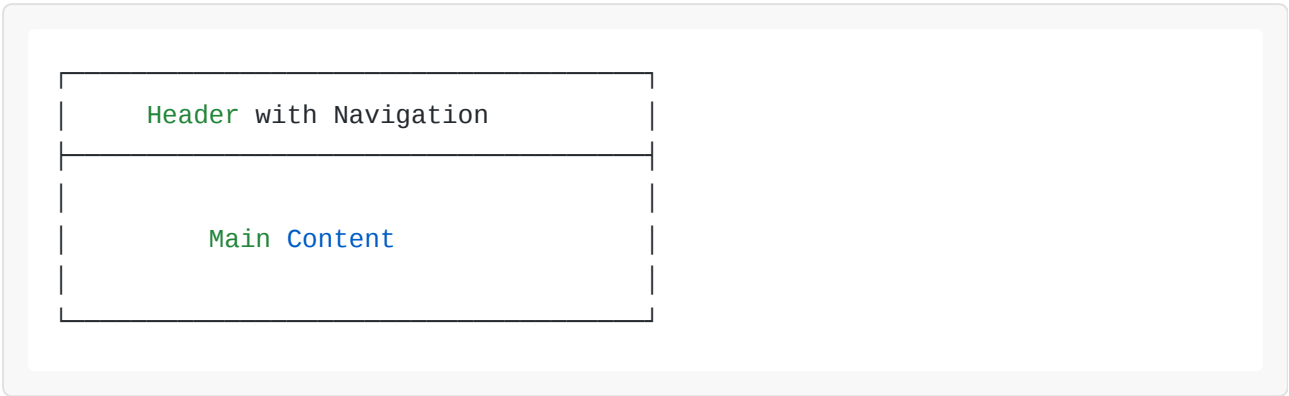
Layout Patterns

Current Layout: Sidebar + Content



Alternative Layouts

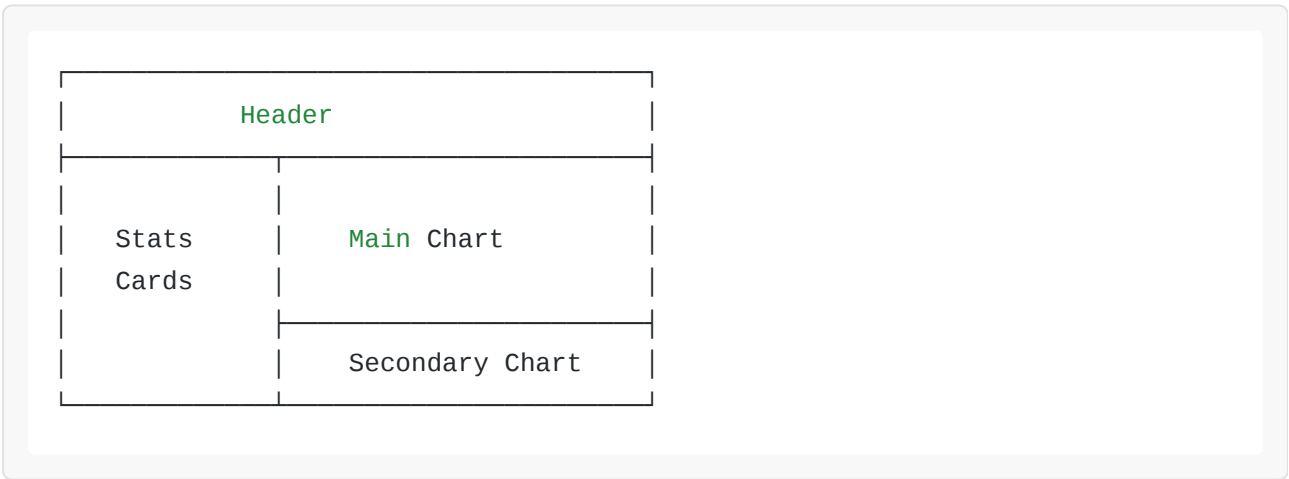
1. Top Navigation



How to Request:

"Move navigation to top header instead of sidebar"
"Use a horizontal navigation bar"

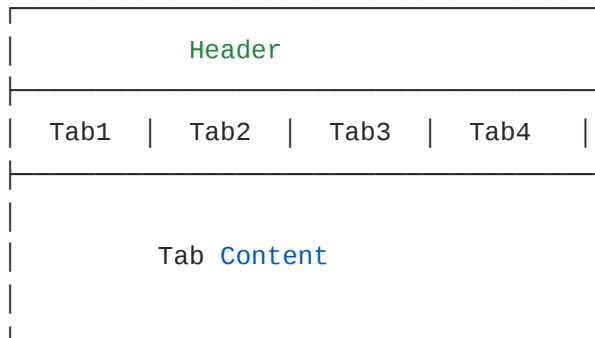
2. Dashboard Grid



How to Request:

"Add a stats card section at the top"
"Create a dashboard grid layout"
"Show KPIs in cards above charts"

3. Tabs Layout



How to Request:

"Organize portfolio sections into tabs"
"Add tabs for different time periods"
"Use tabs instead of separate pages"

Spacing & Padding

Current Spacing Scale (Tailwind):

p-0: 0px
p-1: 0.25rem (4px)
p-2: 0.5rem (8px)
p-4: 1rem (16px)
p-6: 1.5rem (24px)
p-8: 2rem (32px)
p-12: 3rem (48px)

How to Request:

"Add more spacing between sections"
"Reduce padding in cards"
"Make the layout more compact"
"Add breathing room around charts"

Chart Customization

ECharts Configuration Options

Colors

```
color: ['#3b82f6', '#10b981', '#f59e0b', '#ef4444', '#8b5cf6']
```

How to Request:

```
"Use a gradient color scheme for charts"  
"Change chart colors to match brand"  
"Use monochromatic colors (shades of blue)"
```

Grid & Axis

```
grid: {  
  left: '3%',  
  right: '4%',  
  bottom: '3%',  
  top: '10%',  
  containLabel: true  
}
```

How to Request:

```
"Add more padding around chart"  
"Show grid lines on chart"  
"Hide axis labels"  
"Change axis label colors"
```

Tooltips

```
tooltip: {  
  trigger: 'axis',  
  backgroundColor: 'rgba(0,0,0,0.8)',  
  textStyle: { color: '#fff' }  
}
```

How to Request:

```
"Change tooltip background color"  
"Show more information in tooltips"  
"Format tooltip values as currency"  
"Add custom tooltip styling"
```

Legend

```
legend: {  
  data: ['Portfolio', 'Benchmark'],  
  bottom: 0  
}
```

How to Request:

```
"Move legend to top"  
"Hide legend"  
"Change legend text color"  
"Add icons to legend"
```

Chart Type Alternatives

Current: Line, Area, Pie, Candlestick, Radar

Available Alternatives:

- **Bar Chart** - For comparisons
- **Scatter Plot** - For correlations
- **Heatmap** - For multi-dimensional data
- **Gauge Chart** - For single metrics
- **Funnel Chart** - For conversion flows
- **Treemap** - For hierarchical data
- **Sankey Diagram** - For flow visualization

How to Request:

```
"Change sector allocation to a treemap"  
"Add a bar chart comparing portfolios"  
"Show correlation as a scatter plot"  
"Add a gauge chart for portfolio health score"
```

ECharts Examples: <https://echarts.apache.org/examples/en/index.html>

Table Customization

TanStack Table Features

Sorting

Current: Click column header to sort

How to Request:

```
"Add multi-column sorting"  
"Change default sort order"  
"Add sort indicators (arrows)"  
"Disable sorting on certain columns"
```

Filtering

Current: Global search box

How to Request:

```
"Add column-specific filters"  
"Add dropdown filters for sectors"  
"Add range filters for price"  
"Add date range picker"
```

Pagination

Current: 10 rows per page

How to Request:

```
"Show 25 rows per page"  
"Add 'show all' option"  
"Change pagination style"  
"Add infinite scroll instead of pagination"
```

Cell Formatting

How to Request:

```
"Format prices as currency ($1,234.56)"  
"Add color coding (green for positive, red for negative)"  
"Add trend arrows in cells"  
"Add sparkline charts in cells"  
"Make certain columns bold"  
"Add icons to cells"
```

Row Actions

How to Request:

```
"Add 'View Details' button to each row"  
"Add row selection checkboxes"  
"Add row hover effects"  
"Add row expansion for more details"  
"Add context menu on right-click"
```

Table Alternatives

Current: Standard data table

Alternatives:

- **Card Grid** - For mobile-friendly display
- **List View** - For simpler display
- **Kanban Board** - For workflow visualization
- **Timeline View** - For chronological data

How to Request:

```
"Show stocks as cards instead of table"  
"Use a list view on mobile"  
"Add a timeline view for transactions"
```

Animation & Transitions

Current Animations

Hover Effects:

- Button hover: Scale + color change
- Card hover: Shadow increase
- Link hover: Color change

Page Transitions:

- Fade in on load
 - Smooth scroll
-

How to Request Animation Changes

```
"Add slide-in animation for sidebar"  
"Make charts animate on load"  
"Add bounce effect to buttons"  
"Smooth scroll to top when navigating"  
"Add loading skeleton animations"  
"Fade in cards on scroll"  
"Add ripple effect on button click"
```

Animation Libraries

Framer Motion (Recommended):

```
"Add Framer Motion animations"  
"Animate cards sliding in from left"  
"Add page transition animations"
```

Framer Motion Docs: <https://www.framer.com/motion/>

Responsive Design

Current Breakpoints (Tailwind)

```
sm: 640px /* Small devices */  
md: 768px /* Tablets */  
lg: 1024px /* Laptops */  
xl: 1280px /* Desktops */  
2xl: 1536px /* Large desktops */
```

Mobile Optimizations

Current:

- Hamburger menu on mobile
- Stacked layout on small screens
- Responsive tables (horizontal scroll)

How to Request:

```
"Hide sidebar on mobile by default"  
"Show simplified charts on mobile"  
"Change table to cards on mobile"  
"Add bottom navigation on mobile"  
"Make charts full-width on mobile"
```

Icon Library

Lucide React Icons

Currently Used:

- `Home` - Home page
- `TrendingUp` - Portfolio performance
- `PieChart` - Sector allocation
- `BarChart3` - Stock analysis
- `Settings` - Settings
- `Search` - Search functionality
- `Menu` - Mobile menu
- `X` - Close buttons
- `ChevronDown` - Dropdowns
- `AlertCircle` - Errors

- Loader2 - Loading

Browse All Icons: <https://lucide.dev/icons/>

How to Request Icon Changes

```
"Change home icon to a different style"  
"Add icons to navigation menu"  
"Use filled icons instead of outlined"  
"Add custom icons for sectors"  
"Change the loading spinner icon"
```

Common UI Change Requests

1. Color & Theme Changes

- ✓ "Change primary color to purple"
- ✓ "Use a dark theme"
- ✓ "Apply a gradient background to the header"
- ✓ "Change card backgrounds to white"
- ✓ "Use softer colors throughout"

2. Layout Changes

- ✓ "Make the sidebar collapsible"
 - ✓ "Move navigation to top"
 - ✓ "Add a dashboard grid on home page"
 - ✓ "Increase content width"
 - ✓ "Add more spacing between sections"
-

3. Chart Changes

- ✓ "Change line chart colors"
 - ✓ "Add moving average to stock chart"
 - ✓ "Show percentage instead of absolute values"
 - ✓ "Make charts bigger"
 - ✓ "Add more data points"
 - ✓ "Change pie chart to bar chart"
-

4. Table Changes

- ✓ "Add more columns to stock table"
 - ✓ "Change default sort order"
 - ✓ "Show 25 rows instead of 10"
 - ✓ "Add color coding for positive/negative"
 - ✓ "Add export to CSV button"
 - ✓ "Show table as cards on mobile"
-

5. Typography Changes

- ✓ "Change font to Inter"
 - ✓ "Make headings bigger"
 - ✓ "Increase body text size"
 - ✓ "Use bolder font weights"
 - ✓ "Change font color to darker gray"
-

6. Component Changes

- ✓ "Add a search bar to header"
 - ✓ "Show user profile in header"
 - ✓ "Add quick stats cards to home page"
 - ✓ "Add a footer"
 - ✓ "Show notifications"
-

7. Animation Changes

- ✓ "Add fade-in animation on load"
 - ✓ "Animate charts on scroll"
 - ✓ "Add hover effects to cards"
 - ✓ "Smooth scroll to sections"
 - ✓ "Add loading animations"
-

8. Responsive Changes

- ✓ "Optimize for mobile"
 - ✓ "Hide sidebar on tablets"
 - ✓ "Stack charts vertically on mobile"
 - ✓ "Add bottom navigation on mobile"
 - ✓ "Make tables scrollable on mobile"
-

Design Inspiration Links

1. Dashboard UI Inspiration

Dribbble - Dashboard Designs:

- <https://dribbble.com/search/dashboard>
- Browse thousands of dashboard designs
- Filter by color, style, industry

Behance - Dashboard Projects:

- <https://www.behance.net/search/projects?search=dashboard>
- Professional dashboard designs
- Case studies and process

Awwwards - Dashboard Sites:

- <https://www.awwwards.com/websites/dashboard/>

- Award-winning dashboard designs
 - Interactive examples
-

2. Financial Dashboard Examples

Robinhood:

- <https://robinhood.com>
- Clean, minimal design
- Mobile-first approach

Coinbase:

- <https://www.coinbase.com>
- Professional, trustworthy
- Data-heavy charts

Personal Capital:

- <https://www.personalcapital.com>
- Comprehensive financial dashboard
- Great data visualization

Mint:

- <https://mint.intuit.com>
 - User-friendly interface
 - Clear data presentation
-

3. Chart & Data Visualization

Observable:

- <https://observablehq.com/@d3/gallery>
- D3.js examples
- Interactive visualizations

Chart.js Examples:

- <https://www.chartjs.org/docs/latest/samples/>
- Simple chart examples
- Various chart types

ECharts Gallery:

- <https://echarts.apache.org/examples/en/index.html>
- Extensive chart examples
- Interactive demos

Plotly Examples:

- <https://plotly.com/javascript/>
 - Advanced visualizations
 - 3D charts
-

4. Color Scheme Generators

Coolors:

- <https://coolors.co>
- Generate color palettes
- Export to various formats

Adobe Color:

- <https://color.adobe.com>
- Create color schemes
- Explore trending palettes

Tailwind Color Palette:

- <https://tailwindcss.com/docs/customizing-colors>
- Pre-defined color scales
- Accessible colors

ColorHunt:

- <https://colorhunt.co>
 - Curated color palettes
 - Trending colors
-

5. UI Component Libraries

shadcn/ui:

- <https://ui.shadcn.com>
- Beautiful components
- Built with Tailwind

Headless UI:

- <https://headlessui.com>
- Unstyled components
- Fully accessible

Radix UI:

- <https://www.radix-ui.com>
- Primitive components
- Highly customizable

Ant Design:

- <https://ant.design>
 - Enterprise UI components
 - Comprehensive library
-

6. Icon Libraries

Lucide Icons (Current):

- <https://lucide.dev>

- Clean, consistent icons
- Open source

Heroicons:

- <https://heroicons.com>
- Beautiful hand-crafted icons
- By Tailwind team

Feather Icons:

- <https://feathericons.com>
- Simply beautiful icons
- Open source

Font Awesome:

- <https://fontawesome.com>
 - Extensive icon library
 - Pro and free versions
-

7. Typography Resources

Google Fonts:

- <https://fonts.google.com>
- Free web fonts
- Easy integration

Font Pair:

- <https://www.fontpair.co>
- Font pairing suggestions
- Google Fonts combinations

Typewolf:

- <https://www.typewolf.com>

- Typography inspiration
 - Font recommendations
-

8. Design Systems

Material Design:

- <https://material.io/design>
- Google's design system
- Comprehensive guidelines

Apple Human Interface Guidelines:

- <https://developer.apple.com/design/human-interface-guidelines/>
- Apple's design principles
- iOS/macOS patterns

Microsoft Fluent Design:

- <https://www.microsoft.com/design/fluent/>
 - Microsoft's design system
 - Windows patterns
-

9. Animation Libraries

Framer Motion:

- <https://www.framer.com/motion/>
- React animation library
- Easy to use

GSAP:

- <https://greensock.com/gsap/>
- Professional animation
- High performance

Anime.js:

- <https://animejs.com>
 - Lightweight animation
 - Simple API
-

10. Accessibility Resources

WebAIM:

- <https://webaim.org>
- Accessibility guidelines
- Testing tools

A11y Project:

- <https://www.a11yproject.com>
- Accessibility checklist
- Best practices

WAVE:

- <https://wave.webaim.org>
 - Accessibility testing
 - Browser extension
-

How to Use This Guide

Step 1: Identify What You Want to Change

Browse the sections above to find:

- Component you want to modify
- Design element you want to change
- Inspiration for new features

Step 2: Use Example Requests

Copy and modify the example requests:

```
"Change [component] to [desired state]"  
"Add [feature] to [location]"  
"Use [style/color/font] for [element]"
```

Step 3: Provide Visual References (Optional)

Include links to:

- Design inspiration (Dribbble, Behance)
- Similar dashboards
- Color palettes
- Specific examples

Step 4: Be Specific

Good Requests: ✅ “Change the primary color from blue (#3b82f6) to purple (#8b5cf6)” ✅ “Add a 50-day moving average line to the stock price chart in orange” ✅
“Make the sidebar collapsible with an animated slide-out effect”

Vague Requests: ❌ “Make it look better” ❌ “Change the colors” ❌ “Add more features”

Quick Request Templates

Color Change

"Change the [element] color from [current color] to [new color]"
Example: "Change the primary button color from blue to purple"

Layout Change

"Move [component] from [current location] to [new location]"
Example: "Move navigation from sidebar to top header"

Component Addition

"Add a [component type] showing [data] to [location]"
Example: "Add a stats card showing total portfolio value to the home page"

Chart Modification





"Change the [chart name] to show [data] using [chart type] with [color/style]"
Example: "Change the sector allocation to show values using a bar chart with gradient colors"

Typography Change

"Change [text element] to use [font name] at [size] with [weight]"
Example: "Change headings to use Poppins at 24px with bold weight"

Conclusion

This guide provides a comprehensive reference for customizing the JCN Dashboard UI/UX. Use the examples, links, and templates to:

-  Request specific design changes
-  Explore design inspiration
-  Understand available options
-  Communicate effectively about UI/UX

Remember: The more specific your request, the better the result!

Need Help?

- Review the component documentation in `03_FRONTEND_DOCUMENTATION.md`
 - Check the design inspiration links above
 - Provide visual references when possible
 - Ask for clarification if needed
-

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