

Design System

Bilko Design System

Source: Extracted from `apps/web/tailwind.config.ts` + brand identity spec **Design Language:** Modern Balkan accounting SaaS — clean, professional, accessible

Token Architecture Overview

```
graph TD
  TC["tailwind.config.ts\n(73 design tokens)"]

  TC --> COLORS["Color Tokens"]
  TC --> TYPE["Typography Tokens"]
  TC --> SPACE["Spacing Tokens"]
  TC --> RADIUS["Border Radius Tokens"]
  TC --> SHADOW["Shadow Tokens"]
  TC --> BP["Breakpoint Tokens"]

  COLORS --> PRIMARY["Primary Brand\n#00E5A0 / #00B380 / #33EBB3"]
  COLORS --> STATUS["Status Colors\nsuccess / warning / error / info"]
  COLORS --> TEXT["Text Scale\nprimary / secondary / muted"]
  COLORS --> BG["Backgrounds\nlight #FAFAFA / surface #FFF"]
  COLORS --> SIDEBAR["Sidebar (Dark Theme)\nbg / text / text-muted / active / hover"]
  COLORS --> CHART["Chart Colors\nrevenue / expense / profit / neutral"]

  TYPE --> FONT["Inter (Google Fonts)\nxs 12px → 4xl 40px"]
  TYPE --> WEIGHT["Weights\n400 / 500 / 600 / 700"]

  SPACE --> GRID["8px Grid\nxs 4px → 3xl 64px"]

  RADIUS --> SIZES["6px / 8px / 12px / full"]
```

SHADOW --> ELEV["card / modal / dropdown"]

BP --> SCREEN["640px / 768px / 1024px / 1280px"]

Color Palette

Primary Brand Colors

Primary: #00E5A0 (Vibrant teal-green – primary CTA, links, active states)
Primary Dark: #00B380 (Darker variant for hover states)
Primary Light: #33EBB3 (Lighter variant for backgrounds)

Status Colors

Success: #22C55E (Green – success states, paid invoices, positive metrics)
Warning: #F59E0B (Amber – warnings, pending items, aging invoices)
Error: #EF4444 (Red – errors, overdue invoices, negative actions)
Info: #3B82F6 (Blue – informational messages, neutral data)

Text Colors

Text Primary: #111113 (Near-black – body text, headings)
Text Secondary: #6B7280 (Gray-600 – secondary text, labels)
Text Muted: #888888 (Gray-500 – muted text, placeholders)

Background Colors

Background Light: #FAFAFA (Off-white – main content area background)
Background Surface: #FFFFFF (White – card backgrounds, modals)

Border Color

Border: #E5E7EB (Gray-200 – borders, dividers)

Chart Colors

Chart Revenue: #22C55E (Green – revenue bars/lines)
Chart Expense: #EF4444 (Red – expense bars/lines)
Chart Profit: #3B82F6 (Blue – profit bars/lines)
Chart Neutral: #6B7280 (Gray – neutral data points)

Sidebar Colors (Dark Theme)

Sidebar BG: #111113 (Near-black – sidebar background)
Sidebar Text: #FAFAFA (Off-white – sidebar text)
Sidebar Text Muted: #888888 (Gray – inactive menu items)
Sidebar Active: #00E5A0 (Primary green – active menu item)
Sidebar Hover: #1F1F23 (Slightly lighter black – hover state)

Usage:

- Sidebar = dark (#111113) with light text
- Content area = light (#FAFAFA) with dark text
- Cards = white (#FFFFFF) surface on light background

Color Relationship Map

```
graph LR
  subgraph BRAND["Brand Identity"]
    P["Primary\n#00E5A0"]
    PD["Primary Dark\n#00B380\n(hover)"]
    PL["Primary Light\n#33EBB3\n(bg tint)"]
    P --> PD
    P --> PL
  end

  subgraph LAYOUT["Layout Zones"]
    SBG["Sidebar BG\n#111113"]
    SBG --> STEXT["Sidebar Text\n#FAFAFA"]
    SBG --> SMUTED["Sidebar Muted\n#888888"]
    SBG --> SACTIVE["Active Item\n#00E5A0"]
  end
```

```
    CBG["Content BG\n#FAFAFA"]
    CBG --> SURF["Card Surface\n#FFFFFF"]
    CBG --> BORDER["Border\n#E5E7EB"]
end

subgraph SEMANTIC["Semantic Status"]
    SUCCESS["Success\n#22C55E\n(paid, positive)"]
    WARN["Warning\n#F59E0B\n(pending, aging)"]
    ERR["Error\n#EF4444\n(overdue, delete)"]
    INFO["Info\n#3B82F6\n(neutral data)"]
end

subgraph TEXT_SCALE["Text Scale"]
    TP["Text Primary\n#111113"]
    TS["Text Secondary\n#6B7280"]
    TM["Text Muted\n#888888"]
end

P -->|"active states"| SACTIVE
SUCCESS -->|"chart-revenue"| CR["Chart Revenue"]
ERR -->|"chart-expense"| CE["Chart Expense"]
INFO -->|"chart-profit"| CP["Chart Profit"]
```

Typography

Font Family

```
Sans Serif: Inter, ui-sans-serif, system-ui, -apple-system, BlinkMacSystemFont, "Segoe UI", sans-serif
```

Source: Google Fonts Inter (variable font) **Fallback:** System UI fonts for performance

Font Sizes

```
xs: 12px (Small badges, captions)
sm: 14px (Table cells, secondary text, form labels)
base: 16px (Body text, default)
```

lg: 18px (Subheadings, emphasized text)
xl: 20px (Section titles)
2xl: 24px (Card titles, small headings)
3xl: 32px (Page headings)
4xl: 40px (Hero text, large numbers)

Font Weights

normal: 400 (Body text)
medium: 500 (Emphasis, table headers)
semibold: 600 (Subheadings, button text)
bold: 700 (Headings, metric numbers)

Type Scale Usage

- **Headings:**
 - Page title: `text-3xl font-bold` (32px, 700)
 - Section title: `text-2xl font-bold` (24px, 700)
 - Card title: `text-base font-semibold` (16px, 600)
- **Body:**
 - Default: `text-base font-normal` (16px, 400)
 - Table cells: `text-sm font-medium` (14px, 500)
 - Muted text: `text-sm text-text-muted` (14px, #888888)
- **Numbers:**
 - Metrics: `text-3xl font-bold` (32px, 700)
 - Totals: `text-2xl font-bold` (24px, 700)
 - Amounts: `text-base font-medium` (16px, 500)

Spacing System (8px Grid)

xs: 4px (Tight spacing, icon gaps)
sm: 8px (Input padding, small gaps)
md: 16px (Default spacing, card padding)
lg: 24px (Section spacing)
xl: 32px (Large section spacing)
2xl: 48px (Major section breaks)
3xl: 64px (Hero spacing)

Usage:

- Card padding: `p-6` (24px)
- Form field gap: `space-y-4` (16px)
- Section spacing: `space-y-6` (24px)
- Grid gap: `gap-6` (24px)

Consistency: All spacing uses 8px increments (4px, 8px, 16px, 24px, 32px, 48px, 64px)

Border Radius

```
sm: 6px (Small elements, badges)
md: 8px (Buttons, inputs, cards)
lg: 12px (Modals, large cards)
full: 9999px (Circular elements, pills)
```

Usage:

- Cards: `rounded-md` (8px)
 - Buttons: `rounded-md` (8px)
 - Inputs: `rounded-md` (8px)
 - Badges: `rounded-sm` (6px)
 - User avatar: `rounded-full` (circular)
-

Shadows

```
Card Shadow:    0 2px 8px rgba(0, 0, 0, 0.08) (Subtle card elevation)
Modal Shadow:   0 8px 24px rgba(0, 0, 0, 0.12) (Dialog/modal elevation)
Dropdown Shadow: 0 4px 16px rgba(0, 0, 0, 0.10) (Dropdown menu elevation)
```

Usage:

- Cards: `shadow-card`
- Modals/dialogs: `shadow-modal`
- Dropdown menus: `shadow-dropdown`

Philosophy: Subtle shadows for depth, avoid heavy shadows (material design style)

Design Token Relationships

```
classDiagram
```

```
class ButtonTokens {  
  +height_default: 40px  
  +height_sm: 32px  
  +height_lg: 48px  
  +padding_x: 16px  
  +border_radius: 8px (md)  
  +font_size: 14px medium  
  +variant_default: primary-bg white-text  
  +variant_outline: border-only transparent  
  +variant_ghost: no-border no-bg  
  +variant_destructive: error-red white-text  
}
```

```
class InputTokens {  
  +height: 40px  
  +padding_x: 12px  
  +border: 1px solid #E5E7EB  
  +border_radius: 8px (md)  
  +font_size: 14px normal  
  +focus_ring: 2px primary-color  
}
```

```
class CardTokens {  
  +background: #FFFFFF  
  +border: 1px solid #E5E7EB  
  +border_radius: 8px (md)  
  +shadow: 0 2px 8px rgba-8pct  
  +padding: 24px  
}
```

```
class BadgeTokens {  
  +padding: 4px 8px  
  +border_radius: 6px (sm)  
  +font_size: 12px medium  
  +variant_success: green-bg  
  +variant_warning: amber-bg
```

```
+variant_destructive: red-bg
+variant_secondary: light-gray-bg
}
```

```
class TableTokens {
  +row_height: 48px
  +cell_padding_x: 12px
  +cell_padding_y: 16px
  +border: 1px solid #E5E7EB
  +hover: light-gray #FAFAFA
  +header_weight: medium
  +header_color: text-secondary
}
```

```
class ColorTokens {
  +primary: #00E5A0
  +primary_dark: #00B380
  +success: #22C55E
  +warning: #F59E0B
  +error: #EF4444
  +info: #3B82F6
  +text_primary: #111113
  +text_secondary: #6B7280
  +border: #E5E7EB
  +surface: #FFFFFF
  +bg_light: #FAFAFA
}
```

ButtonTokens --> ColorTokens : uses primary, error

InputTokens --> ColorTokens : uses border, primary (focus)

CardTokens --> ColorTokens : uses surface, border

BadgeTokens --> ColorTokens : uses success, warning, error

TableTokens --> ColorTokens : uses border, bg-light (hover)

Breakpoints

sm: 640px (Small tablets, large phones)

md: 768px (Tablets)

lg: 1024px (Small desktops, large tablets)

xl: 1280px (Desktops)

Mobile-First Strategy:

- Base styles = mobile (< 640px)
- `sm:` = small tablet (640px+)
- `md:` = tablet/desktop toggle (768px+)
- `lg:` = desktop layout (1024px+)
- `xl:` = wide desktop (1280px+)

Responsive Patterns:

- Grid: `grid-cols-1 md:grid-cols-2 lg:grid-cols-3`
- Sidebar: `hidden md:block` (hide on mobile)
- Filters: `flex-col sm:flex-row` (stack on mobile, row on tablet+)

Responsive Layout Behavior

```
graph TD
  subgraph MOBILE["Mobile (< 640px)"]
    M1["Sidebar: hidden\n(overlay when toggled)"]
    M2["TopBar: shows hamburger + logo"]
    M3["Grid: single column"]
    M4["Filters: stacked vertically"]
    M5["Tables: horizontal scroll"]
  end

  subgraph TABLET["Tablet (768px+)"]
    T1["Sidebar: visible, persistent"]
    T2["TopBar: shows search + user menu"]
    T3["Grid: 2 columns"]
    T4["Filters: row layout"]
    T5["Tables: full width"]
  end

  subgraph DESKTOP["Desktop (1024px+)"]
    D1["Sidebar: 256px fixed width"]
    D2["TopBar: full bar"]
    D3["Grid: 3 columns"]
  end
```

```
D4["Settings: sidebar + content split"]
```

```
D5["Banking: full tab content"]
```

```
end
```

Component Tokens

Button

- **Height:** 40px (default), 32px (sm), 48px (lg), 40px (icon)
- **Padding:** 16px horizontal (default), 12px (sm), 20px (lg)
- **Border Radius:** 8px (md)
- **Font:** 14px medium (default), 12px (sm), 16px (lg)
- **Variants:**
 - Default: Primary green background, white text
 - Outline: Border only, transparent background
 - Ghost: No border, no background, hover shows background
 - Destructive: Error red background, white text

Input

- **Height:** 40px
- **Padding:** 12px horizontal
- **Border:** 1px solid #E5E7EB (border color)
- **Border Radius:** 8px (md)
- **Font:** 14px normal
- **Focus:** Primary color ring (2px)

Card

- **Background:** #FFFFFF (surface)
- **Border:** 1px solid #E5E7EB
- **Border Radius:** 8px (md)
- **Shadow:** 0 2px 8px rgba(0, 0, 0, 0.08)
- **Padding:** 24px (default content padding)

Badge

- **Padding:** 4px 8px
- **Border Radius:** 6px (sm)

- **Font:** 12px medium
- **Variants:**
 - Default: Gray background
 - Success: Green background
 - Warning: Amber background
 - Destructive: Red background
 - Secondary: Light gray

Table

- **Row Height:** 48px (default)
 - **Cell Padding:** 12px horizontal, 16px vertical
 - **Border:** 1px solid #E5E7EB (between rows)
 - **Hover:** Light gray background (#FAFAFA)
 - **Header:** Medium font weight, secondary text color
-

Icon System

Library: Lucide React (v0.469.0) **Size:** Consistent 16px (w-4 h-4) or 20px (w-5 h-5) **Usage:**

- Buttons: 16px icon + 8px gap from text
- Menu items: 20px icon + 12px gap from text
- Standalone: 24px or larger

Common Icons:

- Plus (add actions)
 - Search (search inputs)
 - Menu (mobile sidebar toggle)
 - User (user menu)
 - Bell (notifications)
 - ChevronDown/Right (expandable sections)
 - Check (success, reconciliation)
 - X (close, delete)
 - Download (export actions)
 - Send (send email)
-

Chart Design Tokens

Chart Colors (Recharts)

Revenue: #22C55E (Green bars)
Expense: #EF4444 (Red bars)
Profit: #3B82F6 (Blue bars)
Neutral: #6B7280 (Gray – when no semantic meaning)

Chart Typography

- **Axis Labels:** 12px normal
- **Tooltip:** 14px medium
- **Legend:** 12px normal

Chart Layout

- **Responsive Container:** 100% width, fixed height (250px default)
 - **Cartesian Grid:** Dashed, #E5E7EB stroke
 - **Tooltip Background:** White with border
 - **Border Radius:** 8px (md)
-

Accessibility

Color Contrast

- All text colors meet WCAG AA standards
- Primary text (#111113) on white = 16.17:1 (AAA)
- Secondary text (#6B7280) on white = 4.69:1 (AA)
- Primary green (#00E5A0) on white = 2.92:1 (fails — used for accents only, not body text)

Focus Indicators

- All interactive elements have visible focus ring
- Focus ring color: Primary green (#00E5A0)
- Focus ring width: 2px

Semantic HTML

- Proper heading hierarchy (h1 → h2 → h3)

- Form labels properly associated with inputs
 - ARIA labels on icon-only buttons
 - Table headers properly scoped
-

Design Principles

1. **Clarity over Decoration** — Data-first, minimal ornamentation
 2. **Consistent Spacing** — 8px grid, predictable rhythm
 3. **Accessible by Default** — WCAG AA minimum, Radix UI primitives
 4. **Mobile-First** — Responsive from 375px+ (iPhone SE)
 5. **Dark Sidebar + Light Content** — Clear visual separation
 6. **Primary Color as Accent** — Green (#00E5A0) for actions, not backgrounds
 7. **Subtle Shadows** — Elevation without heaviness
 8. **Data-Dense UI** — Tables, charts, metrics — optimized for information density
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Brand Identity Alignment

From `~/system/specs/bilko-brand-identity.md`:

- **Primary Color:** #00E5A0 (implemented)
 - **Typography:** Inter (implemented)
 - **Tone:** Modern, professional, Balkan-focused (implemented)
 - **Dark Sidebar:** #111113 (implemented)
 - **Logo Placement:** Top left sidebar (implemented)
-

Future Tokens (Phase 2)

When implementing API integration:

- **Loading States:** Skeleton component colors
 - **Error States:** Error message backgrounds (#FEF2F2, light red)
 - **Success States:** Success message backgrounds (#F0FDF4, light green)
 - **Toast Notifications:** Background, text, border colors
 - **Dark Mode:** Full dark theme variant (optional)
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Revision #3

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