IT2010 – Mobile Application Development
Report

Description

> **HabitTrackerApp** is designed to make healthy routines stick by reducing friction, boosting motivation, and giving users clear, actionable feedback. One-tap check-ins and schedule-aware reminders minimize effort and decision fatigue, so users are nudged at the right times and can record progress in second even on the busiest days. Streaks, milestone badges, and weekly/monthly summaries transform small wins into momentum, reinforcing consistency without relying on willpower alone. Hydration targets help users maintain better energy, focus, and mood; mood logging builds self-awareness by revealing patterns and triggers over time; and trend views translate raw activity into simple insights that guide smarter goal adjustments. Missed-day handling encourages quick recovery instead of "all-or-nothing" drop-offs, helping users sustain long-term progress.
>
> The app also reduces cognitive load with a clean, accessible Material 3 interface—clear typography, large touch targets, and predictable flows—so tracking never feels like extra work. Offline-first storage ensures reliability anywhere (no internet required to log), while easy data export (e.g., CSV/Drive) gives users ownership and portability of their progress for sharing or backup. Altogether, HabitTracker delivers practical everyday benefits: fewer forgotten habits, more consistent behavior, improved hydration and self-awareness, and a steady, low-stress path toward healthier routines that users can maintain.

OneDrive Project Link:

> HabitTracker.zip

Screenshots

Figure 1: App logo

➢ **Splash Screen**

Figure 2: splash screen

➢ **Onboarding Screens**

Figure 3: Onboarding Screen 1

Figure 4: Onboarding Screen 2

Figure 5: Onboarding Screen 3
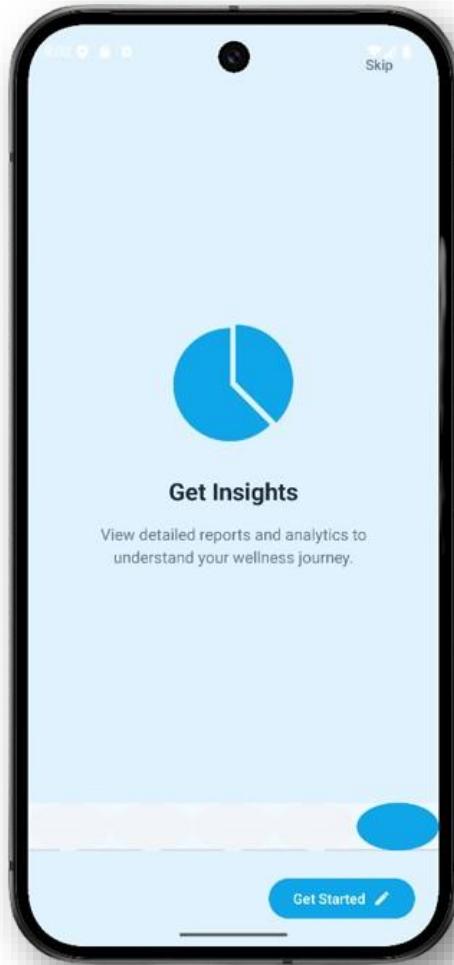
*Figure 6: Onboarding Screen 4*

## ➢ **Login & Signup Screen**

Figure 7: Login
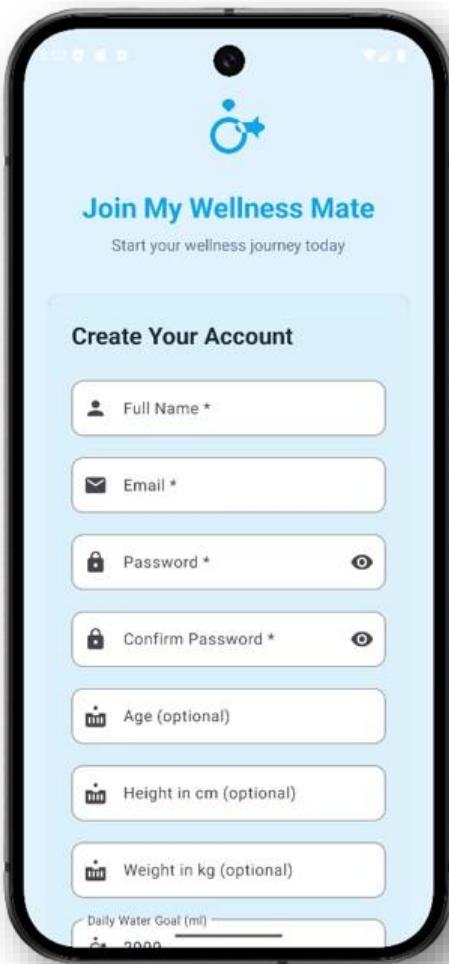
Figure 8.1: Signup
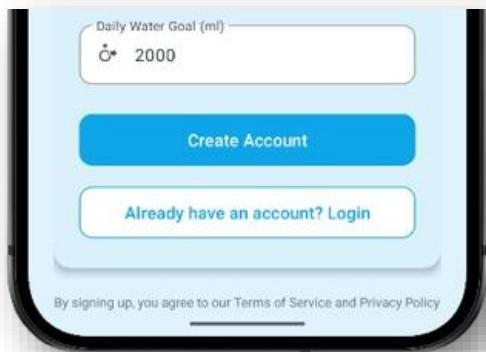

Figure 8.2: Signup

➢ Home Dashboard
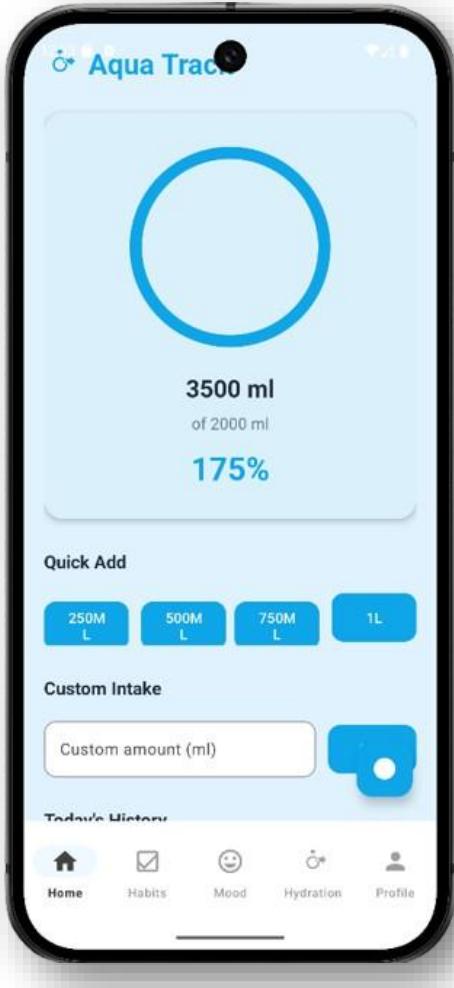
Figure 9.1: Home
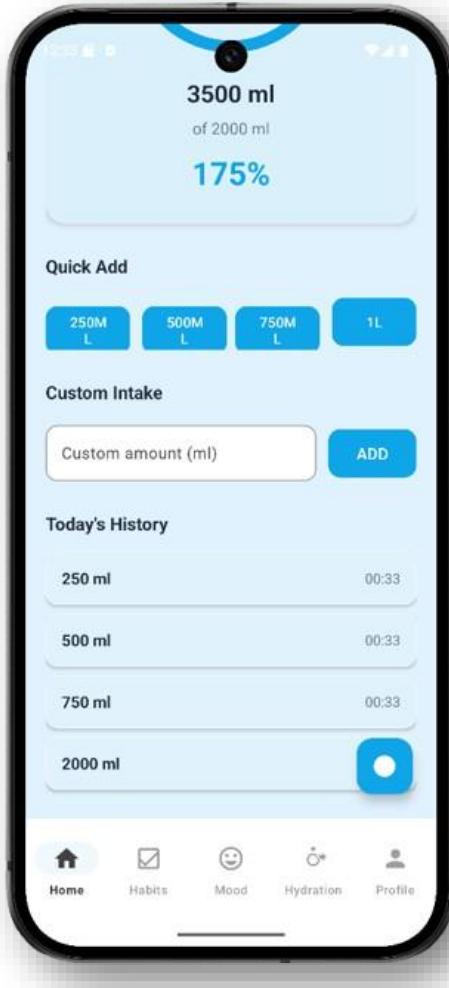
Figure 9.2: Home

➢ **Daily Habit Tracker**
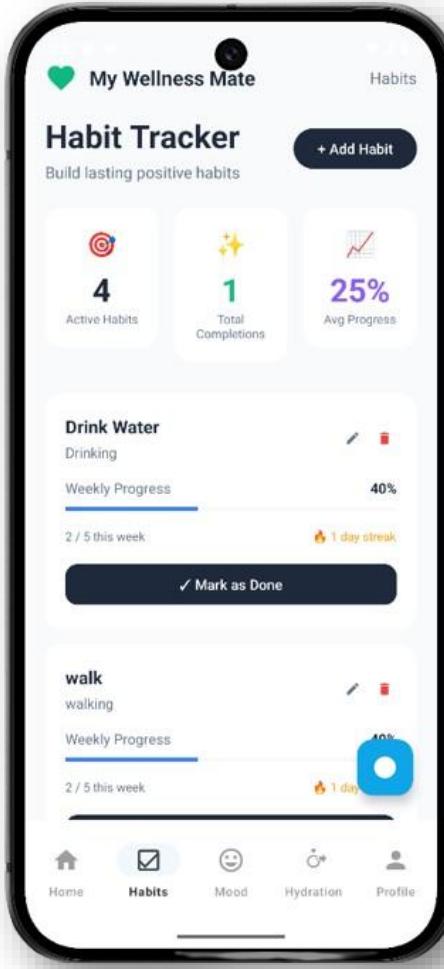
*Figure10.1: Habit tracker*
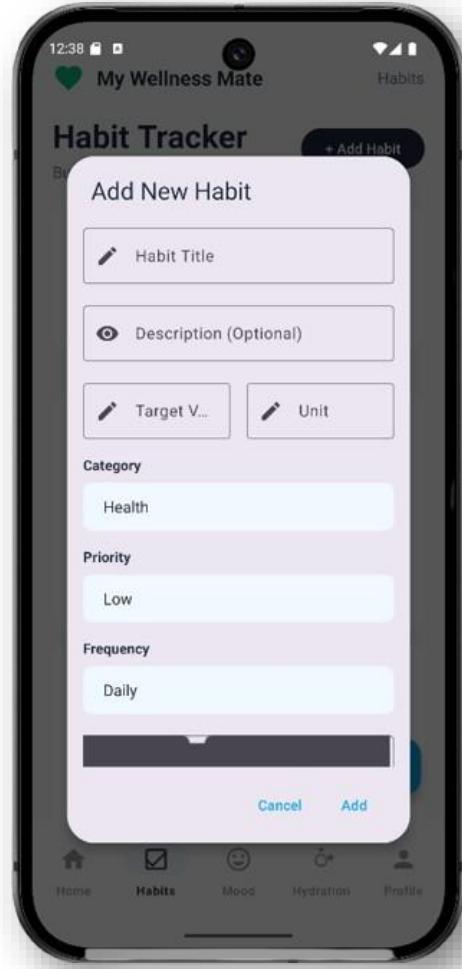
Figure10.2: Habit tracker

➢ **Mood Track**
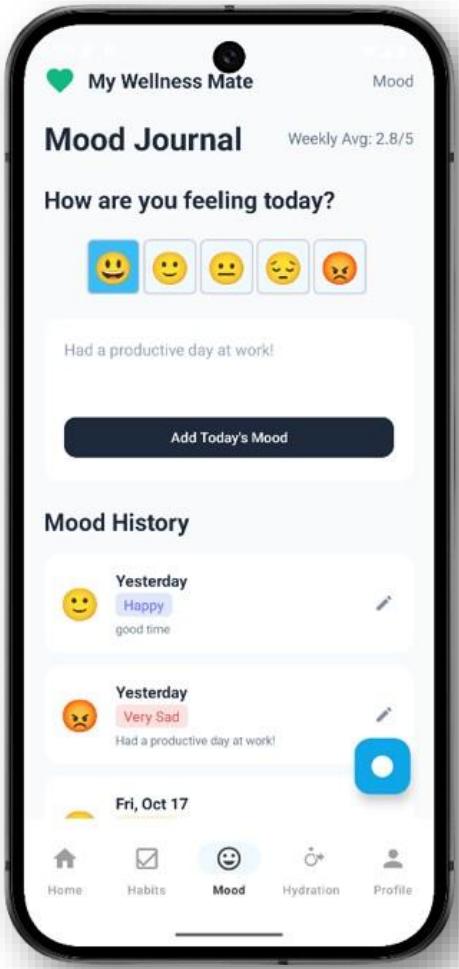
Figure 11: mood tracker screen


*Figure 11.1: Mood Calendar*

➢ Hydration Reminder
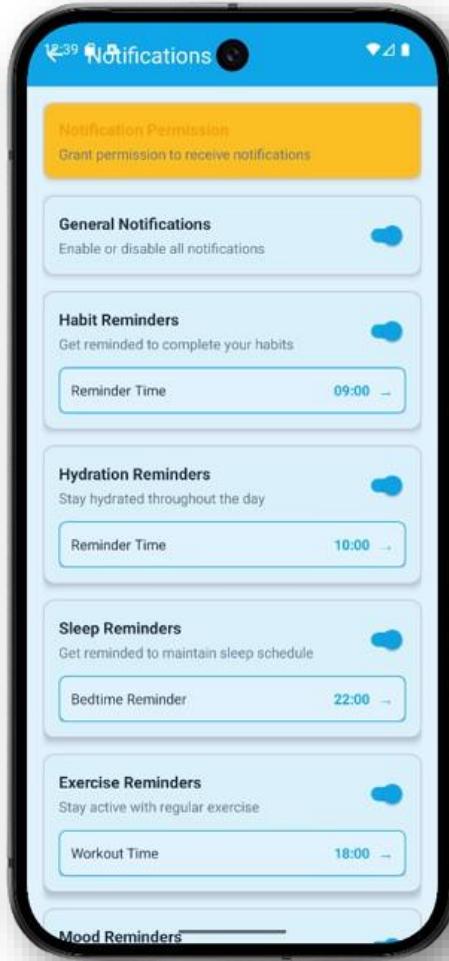
Figure 13.1: Hydration Screen
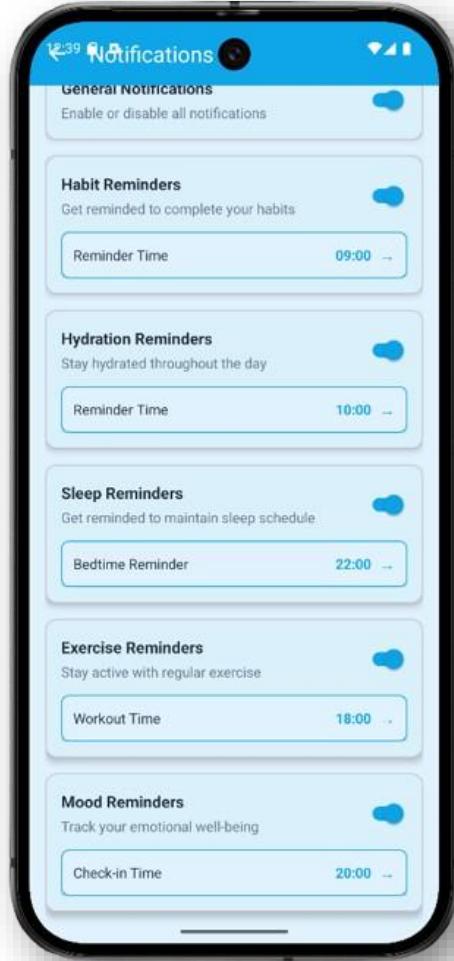
Figure 13.2: Hydration Screen

➢ **Hydration Reminder**

Figure 14: Hydration Reminder

➢ **Hydration Reminder Notifications**
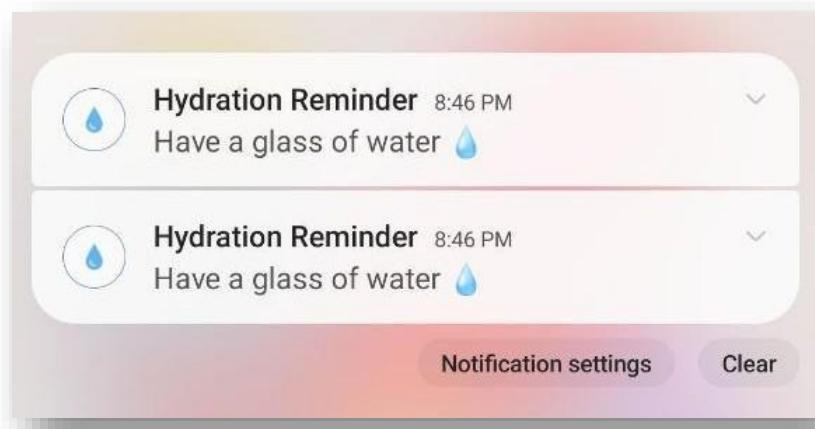
Figure 15: Hydration Notifications

➤ Profile Section
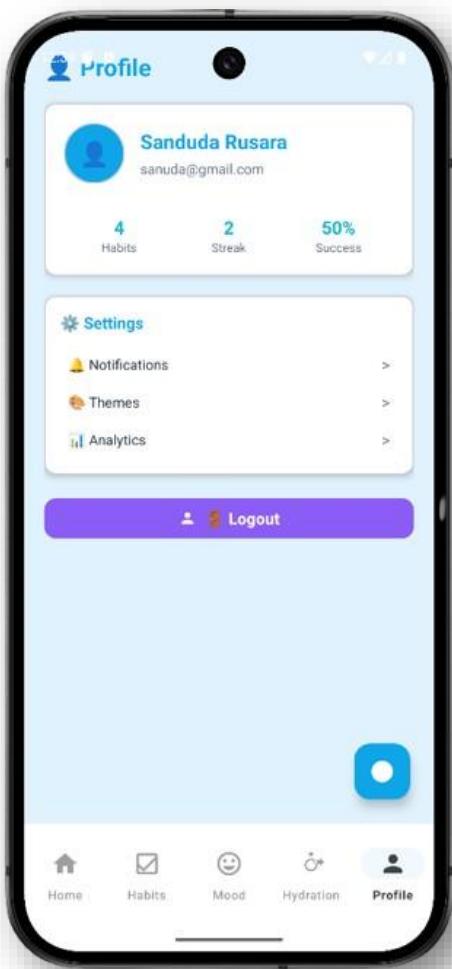
Figure 16: Profile Screen
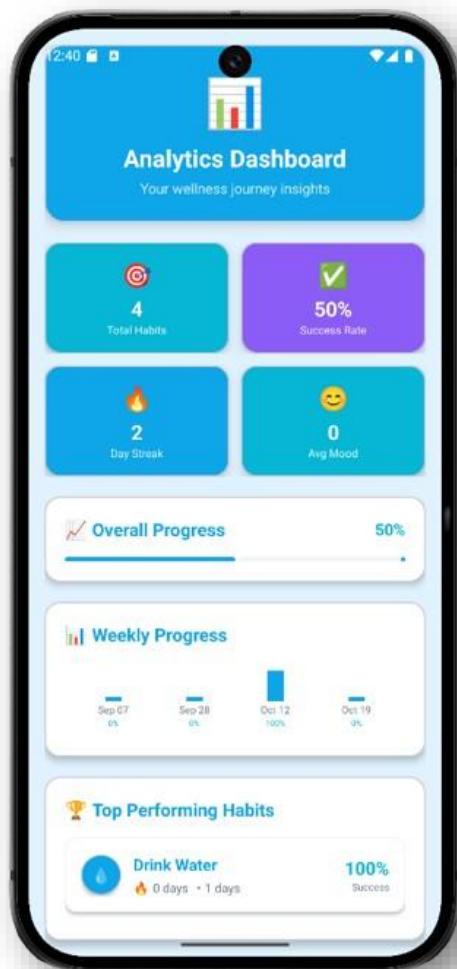
Figure 17: Analytic Screen
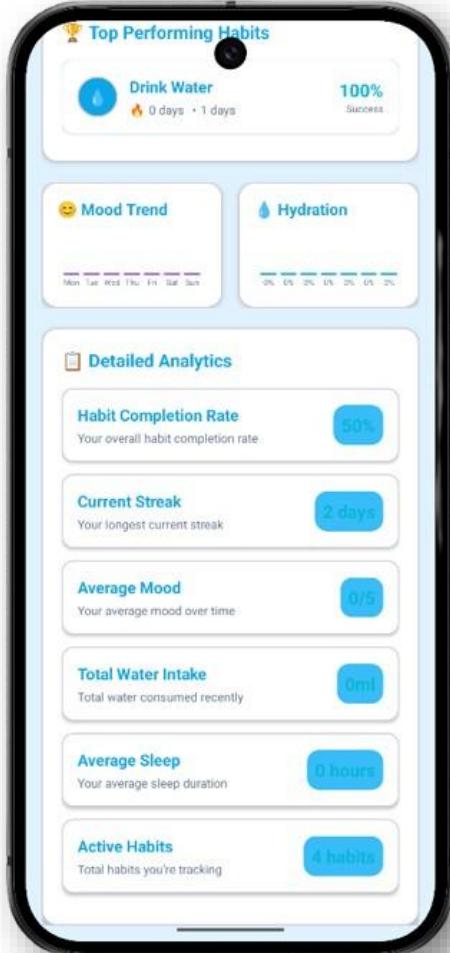
Figure 17.1: Analytic Screen

Content of xml files of Strings and Colors:

- ❖ **Strings**

```xml
strings.xml  ×

1   <resources>
2       <!-- App Name -->
3       <string name="app_name">HabitTracker</string>
4       <string name="profile_picture">Profile picture</string>
5       <string name="hello_blank_fragment">Hello blank fragment</string>
6   </resources>
```

❖ Colors

```xml
<?xml version="1.0" encoding="utf-8"?>
<resources>
    <!-- Basic Colors -->
    <color name="black">#FF000000</color>
    <color name="white">#FFFFFFFF</color>
    <color name="transparent">#00000000</color>

    <!-- Navigation Bar Colors -->
    <color name="nav_bar_white">#FFFFFF</color>
    <color name="nav_bar_pure_white">#FFFFFF</color>

    <!-- 🌊 OCEAN THEME - Primary Theme -->
    <color name="ocean_primary">#0EA5E9</color>
    <color name="ocean_primary_dark">#0284C7</color>
    <color name="ocean_primary_light">#38BDF8</color>
    <color name="ocean_secondary">#06B6D4</color>
    <color name="ocean_secondary_dark">#0891B2</color>
    <color name="ocean_secondary_light">#22D3EE</color>
    <color name="ocean_accent">#8B5CF6</color>
    <color name="ocean_surface">#F0F9FF</color>
    <color name="ocean_background">#E0F2FE</color>

    <!-- 🌅 SUNSET THEME -->
    <color name="sunset_primary">#F97316</color>
    <color name="sunset_primary_dark">#EA580C</color>
    <color name="sunset_primary_light">#FB923C</color>
    <color name="sunset_secondary">#EC4899</color>
    <color name="sunset_secondary_dark">#DB2777</color>
    <color name="sunset_secondary_light">#F472B6</color>
    <color name="sunset_accent">#F59E0B</color>
    <color name="sunset_surface">#FEF7ED</color>
    <color name="sunset_background">#FFF7ED</color>

    <!-- 🌲 FOREST THEME -->
    <color name="forest_primary">#059669</color>
    <color name="forest_primary_dark">#047857</color>
    <color name="forest_primary_light">#10B981</color>
    <color name="forest_secondary">#16A34A</color>
    <color name="forest_secondary_dark">#15803D</color>
    <color name="forest_secondary_light">#22C55E</color>
    <color name="forest_accent">#84CC16</color>
    <color name="forest_surface">#F0FDF4</color>
    <color name="forest_background">#ECFDF5</color>

    <!-- ⚡ NEON THEME -->
    <color name="neon_primary">#8B5CF6</color>
    <color name="neon_primary_dark">#7C3AED</color>
    <color name="neon_primary_light">#A78BFA</color>
    <color name="neon_secondary">#EC4899</color>
    <color name="neon_secondary_dark">#DB2777</color>
    <color name="neon_secondary_light">#F472B6</color>
    <color name="neon_accent">#F59E0B</color>
    <color name="neon_surface">#1F2937</color>
    <color name="neon_background">#111827</color>

    <!-- 🎨 COSMIC THEME -->
    <color name="cosmic_primary">#6366F1</color>
    <color name="cosmic_primary_dark">#4F46E5</color>
    <color name="cosmic_primary_light">#818CF8</color>
    <color name="cosmic_secondary">#10B981</color>
    <color name="cosmic_secondary_dark">#059669</color>
    <color name="cosmic_secondary_light">#34D399</color>
    <color name="cosmic_accent">#F59E0B</color>
    <color name="cosmic_surface">#F8FAFC</color>
    <color name="cosmic_background">#F1F5F9</color>
```

```xml
        <!-- Default Theme (Ocean) -->
        <color name="wellness_primary">@color/ocean_primary</color>
        <color name="wellness_primary_dark">@color/ocean_primary_dark</color>
        <color name="wellness_primary_light">@color/ocean_primary_light</color>
        <color name="wellness_secondary">@color/ocean_secondary</color>
        <color name="wellness_secondary_dark">@color/ocean_secondary_dark</color>
        <color name="wellness_secondary_light">@color/ocean_secondary_light</color>
        <color name="wellness_accent">@color/ocean_accent</color>
        <color name="wellness_neon_purple">#8B5CF6</color>
        <color name="wellness_neon_orange">#F97316</color>
        <color name="wellness_neon_pink">#EC4899</color>

        <!-- Surface / Background - Dynamic Theme System -->
        <color name="wellness_background">@color/ocean_background</color>
        <color name="wellness_surface">@color/ocean_surface</color>
        <color name="wellness_surface_variant">#F1F5F9</color>
        <color name="wellness_surface_dim">#E2E8F0</color>
        <color name="wellness_surface_bright">#FFFFFF</color>
        <color name="wellness_glass">#1A0EA5E9</color>
        <color name="wellness_glass_dark">#1A000000</color>

        <!-- Text - Modern Wellness Theme -->
        <color name="wellness_text_primary">#1E293B</color>
        <color name="wellness_text_secondary">#64748B</color>
        <color name="wellness_text_disabled">#94A3B8</color>
        <color name="wellness_text_inverse">#FFFFFF</color>
        <color name="wellness_text_neon">#6366F1</color>

        <!-- Status - Modern Wellness Theme -->
        <color name="wellness_success">#10B981</color>
        <color name="wellness_success_light">#34D399</color>
        <color name="wellness_warning">#F59E0B</color>
        <color name="wellness_warning_light">#FBBF24</color>
        <color name="wellness_error">#EF4444</color>
        <color name="wellness_error_light">#F87171</color>
        <color name="wellness_info">#6366F1</color>
        <color name="wellness_info_light">#818CF8</color>

        <!-- Mood Tracking - Modern Wellness Theme -->
        <color name="mood_excellent">#10B981</color>
        <color name="mood_good">#6366F1</color>
        <color name="mood_neutral">#F59E0B</color>
        <color name="mood_bad">#F97316</color>
        <color name="mood_terrible">#EF4444</color>

        <!-- Habit Categories - Modern Wellness Theme -->
        <color name="habit_health">#10B981</color>
        <color name="habit_fitness">#6366F1</color>
        <color name="habit_mental">#8B5CF6</color>
        <color name="habit_social">#EC4899</color>
        <color name="habit_learning">#F59E0B</color>
        <color name="habit_productivity">#64748B</color>
        <color name="habit_creative">#F97316</color>
        <color name="habit_spiritual">#7C3AED</color>
```

```xml
        <!-- Hydration - Modern Wellness Theme -->
        <color name="hydration_optimal">#0EA5E9</color>
        <color name="hydration_good">#38BDF8</color>
        <color name="hydration_moderate">#7DD3FC</color>
        <color name="hydration_low">#BAE6FD</color>
        <color name="hydration_critical">#E0F2FE</color>

        <!-- Progress - Modern Wellness Theme -->
        <color name="progress_excellent">#10B981</color>
        <color name="progress_good">#6366F1</color>
        <color name="progress_fair">#F59E0B</color>
        <color name="progress_poor">#F97316</color>
        <color name="progress_bad">#EF4444</color>

        <!-- Chart - Modern Wellness Theme -->
        <color name="chart_primary">#6366F1</color>
        <color name="chart_secondary">#10B981</color>
        <color name="chart_tertiary">#8B5CF6</color>
        <color name="chart_quaternary">#F59E0B</color>
        <color name="chart_quinary">#EC4899</color>

        <!-- Gradients - Modern Wellness Theme -->
        <color name="gradient_start">#6366F1</color>
        <color name="gradient_end">#10B981</color>
        <color name="gradient_primary">#6366F1</color>
        <color name="gradient_secondary">#10B981</color>
        <color name="gradient_wellness_start">#6366F1</color>
        <color name="gradient_wellness_end">#10B981</color>
        <color name="gradient_neon_start">#6366F1</color>
        <color name="gradient_neon_end">#8B5CF6</color>

        <!-- Modern Accents - Wellness Theme -->
        <color name="modern_accent">#6366F1</color>
        <color name="modern_secondary">#10B981</color>
        <color name="modern_tertiary">#8B5CF6</color>
        <color name="neon_glow">#6366F1</color>
        <!-- Alpha Variants - White -->
        <color name="white_10">#1AFFFFFF</color>
        <color name="white_20">#33FFFFFF</color>
        <color name="white_30">#4DFFFFFF</color>
        <color name="white_40">#66FFFFFF</color>
        <color name="white_50">#80FFFFFF</color>
        <color name="white_60">#99FFFFFF</color>
        <color name="white_70">#B3FFFFFF</color>
        <color name="white_80">#CCFFFFFF</color>
        <color name="white_90">#E6FFFFFF</color>
        <!-- Alpha Variants - Black -->
        <color name="black_10">#1A000000</color>
        <color name="black_20">#33000000</color>
        <color name="black_30">#4D000000</color>
        <color name="black_40">#66000000</color>
        <color name="black_50">#80000000</color>
        <color name="black_60">#99000000</color>
        <color name="black_70">#B3000000</color>
        <color name="black_80">#CC000000</color>
        <color name="black_90">#E6000000</color>
        <!-- Alpha Variants - Primary - Modern Theme -->
        <color name="wellness_primary_10">#1A6366F1</color>
        <color name="wellness_primary_20">#336366F1</color>
        <color name="wellness_primary_30">#4D6366F1</color>
        <color name="wellness_primary_40">#666366F1</color>
        <color name="wellness_primary_50">#806366F1</color>
</resources>
```

END…