

# **ANNAI MIRA COLLEGE OF ENGINEERING AND TECHNOLOGY**

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## **DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**



### **NM1020–UI&UX DESIGN(NAAN MUDALVAN)**

**Name** : .....

**Register Number** : .....

**Year & Branch** : .....

**Semester** : .....

**Academic Year** : .....

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## **CERTIFICATE**

This is to Certify that the Bonafide record of the practical work done by .....  
Register Number..... of III<sup>rd</sup> year B.E(Computer Science and Engineering)  
submitted for the B.E.- Degree practical examination (V<sup>th</sup> Semester) in **NM1020–UI&UX DESIGN(NAAN MUDALVAN)** during the academic year **2025 – 2026**.

**Staff in-Charge**

**Head of the Department**

Submitted for the practical examination held on \_\_\_\_\_

**Internal Examiner**

**External Examiner**

# **Introduction to UI & UX Design**

**(Naan Mudhalvan – NM1020)**

## **1. What is UI & UX Design?**

**UI (User Interface)** and **UX (User Experience)** are two key parts of digital product design that work hand-in-hand to create user-friendly, attractive, and effective applications or websites.

- **User Interface (UI)** focuses on the **visual design and layout** — how things look on the screen. It includes buttons, icons, color schemes, typography, spacing, and imagery.
- **User Experience (UX)** focuses on the **overall journey of the user** — how easy, efficient, and enjoyable it is to use the product. It involves research, user flows, wireframes, and usability testing.

In simple terms:

**UI is what people see — UX is what people feel.**

A good UI/UX design ensures that the product is **visually appealing**, **intuitive**, and **helps users achieve their goals quickly**.

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## **2. Difference Between UI and UX**

<b>Aspect</b>	<b>UI (User Interface)</b>	<b>UX (User Experience)</b>
<b>Focus</b>	Looks and aesthetics	Feel and functionality
<b>Goal</b>	To make the interface attractive and consistent	To make the experience smooth and satisfying
<b>Includes</b>	Colors, fonts, layouts, icons, visual styles	User research, personas, wireframes, user testing

<b>Aspect</b>	<b>UI (User Interface)</b>	<b>UX (User Experience)</b>
<b>Example</b>	The button color, shape, and animation	How easy it is to complete a task using that button

### 3. Importance of UI/UX Design

- Helps users navigate easily
- Builds trust and brand identity
- Reduces user frustration and errors
- Increases engagement and conversion rate
- Improves accessibility and usability for all

A well-designed interface creates a **positive impression**, while good user experience keeps users **coming back**.

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#### What is Figma?

**Figma** is a **cloud-based UI/UX design tool** used for creating digital designs, prototypes, and design systems collaboratively. It allows multiple designers to work together in real-time — similar to Google Docs, but for design.

#### Key Features of Figma:

1. **Web-Based Collaboration** – No installation required; works directly in the browser.
2. **Vector Editing** – Supports precise and scalable vector-based design.
3. **Components and Variants** – Reusable design elements for consistency.
4. **Auto Layout** – Automatically adjusts spacing and alignment when content changes.

5. **Prototyping** – Create interactive flows and animations without writing code.
  6. **Design Systems** – Build and maintain brand guidelines in one shared library.
  7. **Developer Handoff** – Developers can easily inspect, copy, and export assets.
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## 4. Why Figma is Used in UI/UX Design

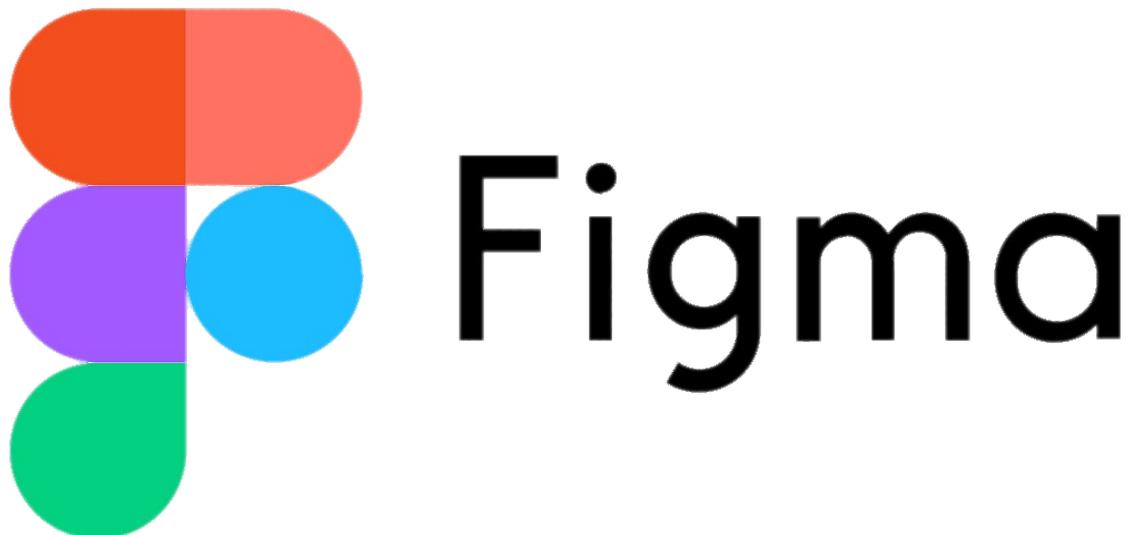
- Enables **collaboration** between designers, developers, and clients.
  - Speeds up the **design-to-prototype** process.
  - Supports **responsive design** for multiple devices.
  - Helps create **wireframes, mockups, and prototypes** in one tool.
  - Cloud storage makes it easy to access and update projects anywhere.
- 

## 5. Figma in Naan Mudhalvan Course

In the **Naan Mudhalvan (NM1020)** course, Figma is used to:

- Learn **practical UI/UX design** skills.
- Build **mini projects** like task management, e-commerce, or health tracking apps.
- Understand how to design for **both mobile and web platforms**.

- Showcase your design process — from **user research** to **final prototype** — in one place.
- 



## 6. Conclusion

UI and UX design together form the **heart of digital product creation**. With tools like **Figma**, students can practically explore user-centered design — focusing not just on how an app looks, but on how it works for real users.

By mastering Figma and UX principles, designers can create experiences that are both **beautiful and meaningful**, improving lives one interface at a time.

*Project -1*  
*Music Streaming*

## Project Overview:

**App Name:** *Music Streaming*

**Tagline:** “*Smart Streaming. Infinite Sound.*”

**Category:** *Entertainment & Lifestyle*

**Platform:** *Mobile Application (Android / iOS)*

### **Purpose:**

Our music streaming app brings the world of music closer to you. Users can discover, stream, and enjoy millions of songs across genres, moods, and artists — all in one place.

Whether relaxing, working out, or partying, the app delivers a personalized listening experience that matches your mood.

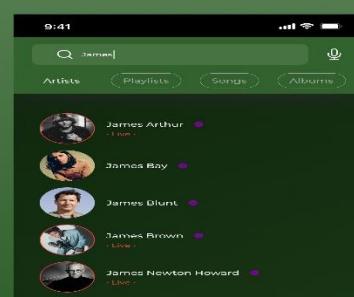
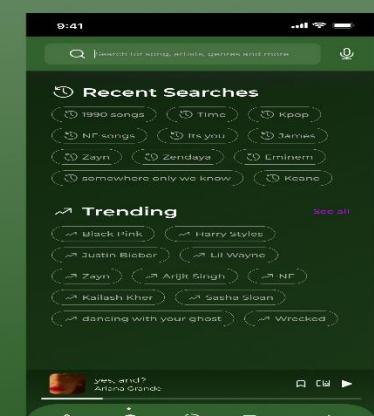
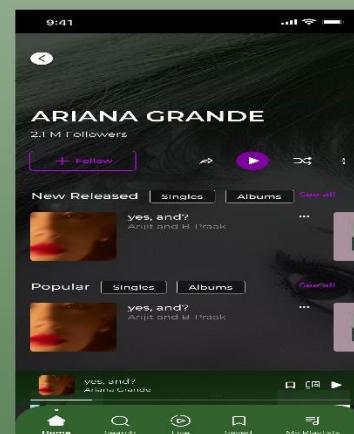
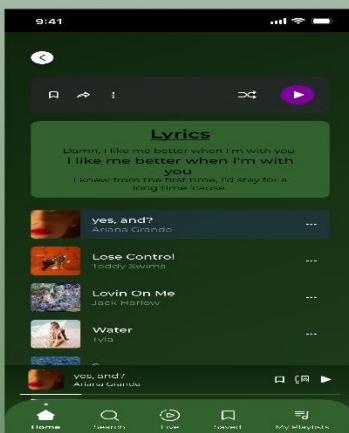
We believe music connects people, inspires creativity, and enriches daily life.

## Target Users

- Music lovers of all ages who enjoy streaming songs anytime, anywhere.
- Young adults and teenagers who love discovering new artists and trends.
- College students who enjoy creating and sharing playlists.
- Working professionals who listen to music for focus or relaxation.
- Casual listeners who want easy access to their favorite tracks.
- Fans of all genres — pop, hip-hop, indie, rock, classical, and more.

# □ Wireframe Design Concepts:

## UI Screens



## I. Splash Screen

- App logo and tagline (e.g., “*Play What Moves You*”)
- Simple animation or gradient background
- Option: “Continue with Google / Apple / Email”

## II. Onboarding Screens

- 3–4 short slides introducing features:
  - Discover new music
  - Create your vibe playlist
  - Listen offline
  - Connect with friends
- “Get Started” button at the end

## III. Home Screen

- **Top bar:** Search, profile icon, notifications
- **Main area:**
  - “Recommended for You” carousel
  - “Trending Now” / “New Releases” sections
  - “Recently Played” horizontal list
- Bottom navigation: *Home* / *Search* / *Library* / *Premium*

## IV. Search Screen

- Search bar at the top
- Category chips (Genres, Artists, Moods, Podcasts)
- Trending searches section
- Grid/list of results with album covers

## V. Now Playing Screen

- Large album art in center
- Play/pause, skip, shuffle, repeat controls

- Progress bar with time stamps
- Like/download/share buttons
- Mini lyrics or queue toggle

## VI. Library Screen

- Tabs: *Playlists / Albums / Artists / Downloads*
- “Create Playlist” button
- List view with album covers

## VII. Profile Screen

- User photo and name
- Follower/following stats
- Favorite genres
- Settings, theme, language, and premium upgrade options

## UI SCREEN:



Vibe Vault is a modern, elegant music streaming app designed to help you discover, organize, and enjoy your favorite tracks in perfect harmony with your mood. With its clean white interface, soft pastel tones, and intuitive navigation, Vibe Vault turns every listening session into a peaceful and immersive experience.



**Home Screens**

Lorum Ipsum is simply dummy text of the printing and typesetting industry. Lorum Ipsum has been the industry's standard dummy text ever since the 1500s..

**Login Screens**

Lorum Ipsum is simply dummy text of the printing and typesetting industry. Lorum Ipsum has been the industry's standard dummy text ever since the 1500s.,.

**Profile Screens**

Lorum Ipsum is simply dummy text of the printing and typesetting industry. Lorum Ipsum has been the industry's standard dummy text ever since the 1500s..

**Setting Screens**

Lorum Ipsum is simply dummy text of the printing and typesetting industry. Lorum Ipsum has been the industry's standard dummy text ever since the 1500s.,.

## 2. Home Screen UI

- Large hero carousel for “Recommended for You”
- Rounded album cards with soft shadows
- Horizontal scroll lists (Trending, New Releases, Genres)
- Subtle gradient backgrounds behind album art

## 3. Now Playing Screen

- Full-screen album art with blur background effect
- Central circular playback controls (Play/Pause/Skip)
- Gradient progress bar matching album cover tones
- Floating heart, share, and download icons
- Swipe-up for lyrics or queue

## 4. Search Screen

- Prominent search bar with mic icon (voice search)
- Rounded genre chips (e.g., Pop, Jazz, Chill)
- Grid of trending albums/artists with vibrant covers

## 5. Library Screen

- Clean card layout for playlists and albums
- Customizable sorting (recently played, favorites)
- “Create Playlist” button with gradient glow

## 6. Profile Screen

- Circular profile photo with gradient ring
- Compact stats cards (Playlists, Followers, Listening Time)
- Elegant toggle switch for dark/light mode
- Button style: Rounded with soft drop shadow

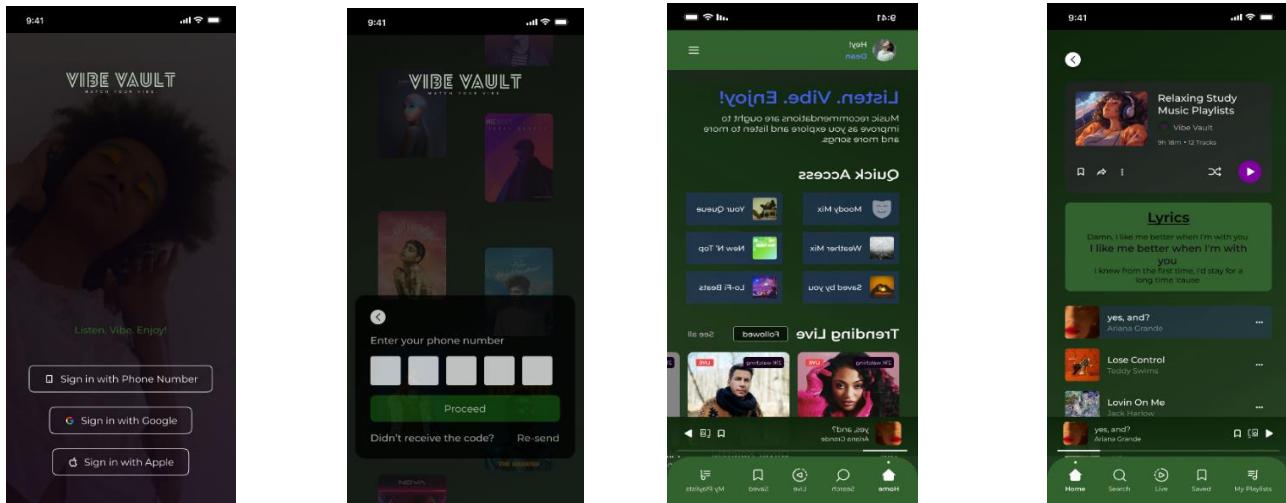
## 7. Microinteractions

- Smooth animations when liking a song (heart pulse)
- Progress bar glow while playing
- Subtle vibration or visual feedback on button tap

## 7. Future Enhancements

- AI-Based Music Recommendations
- Social Music Sharing
- Offline & Karaoke Mode
- High-Quality Audio & Smart Integration

## MOCKUP IMAGE:



## 8. CONSULTATION

Our music streaming app aims to redefine how users experience and enjoy music. By combining a sleek interface, personalized recommendations, and seamless accessibility, it offers a modern platform for music lovers of all kinds. As technology and user needs evolve, the app will continue to grow through innovative features like

AI-driven playlists, social sharing, and smart device integration. Ultimately, our goal is to connect people through the universal language of music and make every listening moment meaningful.

# **Project -2**

# **Health And Wealth**

# 1. Project Overview

**App Name:** Health And Wealth

**Tagline:** “Your Path to a Healthier, Wealthier You.”

**Category:** Health & Fitness

**Platform:** Mobile Application(Android / iOS)

## Purpose:

The purpose of Health and Wealth is to empower individuals to achieve balance in life by improving both their physical well-being and financial stability. The app helps users build healthy habits, track their wellness goals, and manage their finances wisely promoting a lifestyle where good health and smart wealth go hand in hand.

## 2.Target Users:

### Young Professionals (Ages 20–35)

- Ambitious individuals focused on career growth.
- Interested in building wealth while maintaining fitness and mental balance.

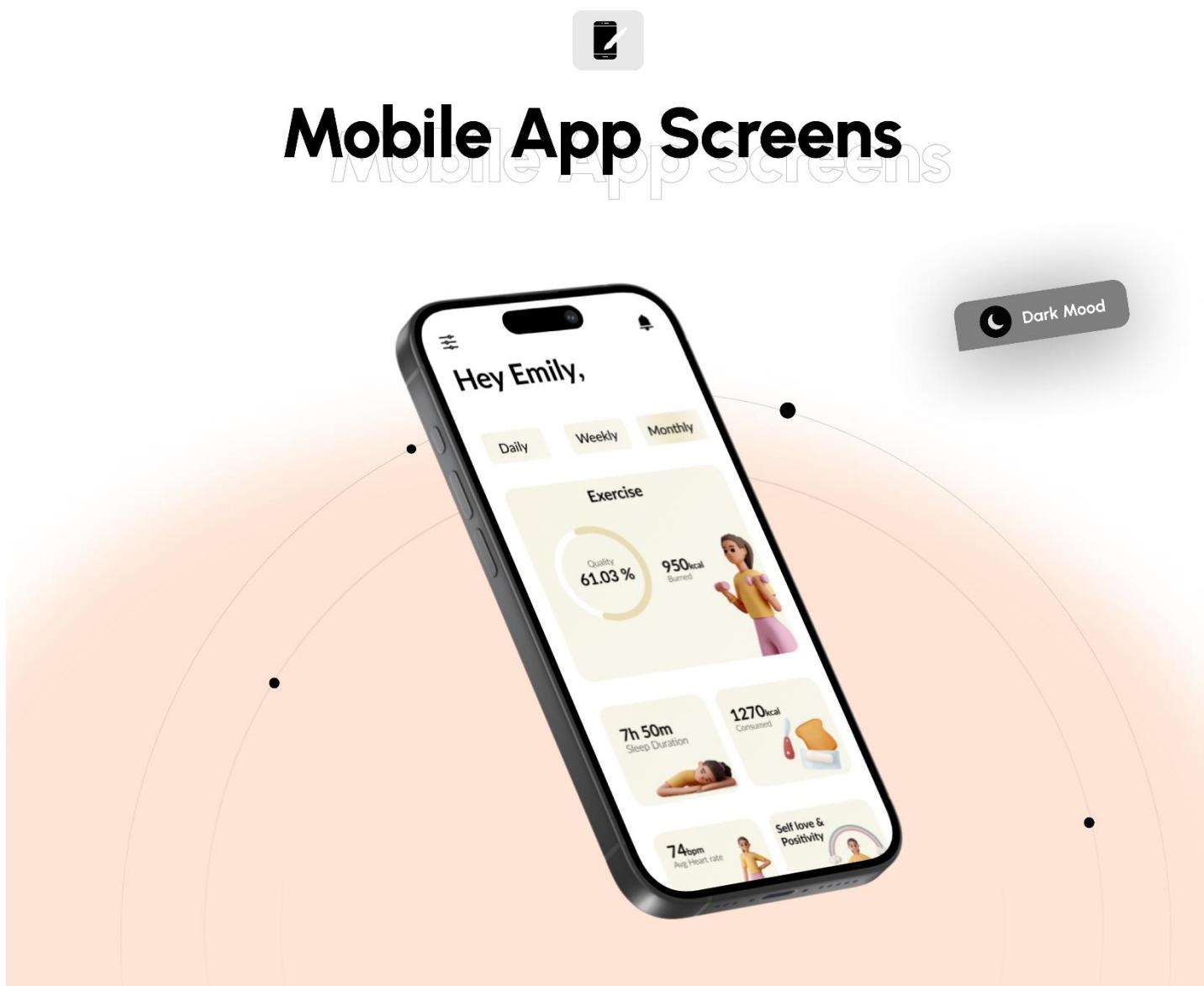
### Entrepreneurs & Business Owners

- People managing busy schedules who want tools to stay healthy and financially organized.

### Health-Conscious Individual

- Users already focused on fitness, nutrition, or mindfulness who also want to manage their financial wellbeing.

### 3. Wireframe Design Concepts:



## I. Splash & Onboarding

**Purpose:** Create a strong first impression and introduce the app's dual purpose — *Health + Wealth*.

### Layout Concept:

- Center logo with tagline (“Balance Your Health. Build Your Wealth.”)
- Clean gradient background (e.g., blue-green blend for vitality + growth)
- Animated loading or motivational quote
- Onboarding slides:
  - Slide 1 → “Track Your Fitness”
  - Slide 2 → “Grow Your Finances”
  - Slide 3 → “Achieve Life Balance”
- Buttons: **Sign Up | Log In**

## II. Home Dashboard

**Purpose:** Quick overview of both Health and Wealth status.

### Layout Concept:

- **Top:** Greeting (“Good Morning, Alex”) + profile icon
- **Center:**
  - Two cards side by side or stacked:
    -  **Health Summary:** Steps, Calories, Sleep, Water
    -  **Wealth Summary:** Income, Expenses, Savings Goal Progress
- **Bottom Navigation Tabs:**
  - Home | Health | Wealth | Goals | Profile

## III. Health Hub

**Purpose:** Track and visualize health metrics.

## Layout Concept:

- Graphs: Steps, Calories Burned, Sleep Hours
- Buttons: “Add Activity” / “Add Meal”
- Tabs:
  - **Activity Tracker**
  - **Nutrition**
  - **Insights** (personalized tips, streaks)
- Visual cue (green theme) for health-related data

## IV. Wealth Hub

**Purpose:** Manage finances with simple tools.

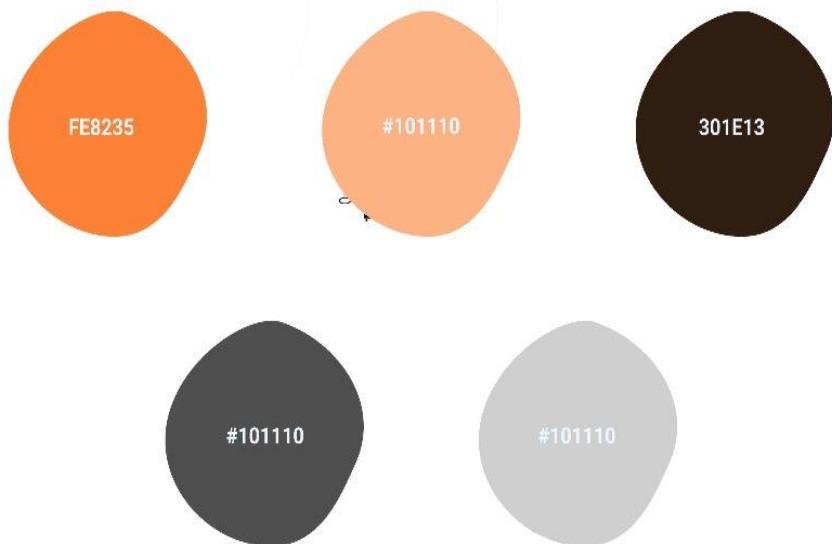
## Layout Concept:

- Top summary bar: Balance | Monthly Spend | Savings
- Graph (spending by category)
- Buttons: “Add Expense”, “Set Budget”, “View Report”
- Tabs:
  - **Transactions**
  - **Goals** (e.g., saving for vacation)
  - **Insights** (budget tips, investment basics)
- Visual cue (blue/gold theme) for financial section

## 4 . UI Design (Colors & Typography)



# Style Guide



Aa  
**Almarai**

## Weights

Light

Regular

**Bold**

**Extra Bold**

## Characters

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

a b c d e f g h i j k l m n o p q r s t u v w x y z

0 1 2 3 4 5 6 7 8 9

# UI Screens

The image displays a collection of 12 mobile application screens for the "WellTrack" app, arranged in a 4x3 grid. Each screen shows a different aspect of health and fitness tracking.

- Top Row:**
  - Left: Home screen for Emily, showing Daily, Weekly, and Monthly tabs. It includes a large circular progress bar for Exercise at 61.03%, a 950kcal goal, and icons for Sleep Duration (7h 50m), Calories Consumed (1270kcal), Self Love & Positivity (74%), and a rainbow icon.
  - Middle: A notifications screen with a message: "Congratulation! You have completed 20 workouts this week." Below it are messages about nutrition, goals, and a successfully connected watch.
  - Right: Another home screen for Emily, identical to the first one.
- Second Row:**
  - Left: Home screen for Emily, showing "No Notifications!"
  - Middle: A "Sign Up" screen with fields for Name, Email, and Password, and a "Continue" button.
  - Right: Home screen for Emily, identical to the first one.
- Third Row:**
  - Left: Home screen for Emily, showing Daily, Weekly, and Monthly tabs. It includes a large circular progress bar for Mental Health at 92.56%, a 950kcal goal, and icons for Sleep Duration (8h 30m), Calories Consumed (1270kcal), Self Love & Positivity (74%), and a rainbow icon.
  - Middle: A "Sign Up" screen with fields for Name, Email, and Password, and a "Continue" button.
  - Right: Home screen for Emily, identical to the first one.
- Bottom Row:**
  - Left: Home screen for Emily, showing Daily, Weekly, and Monthly tabs. It includes a large circular progress bar for Exercise at 61.03%, a 950kcal goal, and icons for Sleep Duration (7h 50m), Calories Consumed (1270kcal), Self Love & Positivity (74%), and a rainbow icon.
  - Middle: A "Sign Up" screen with fields for Name, Email, and Password, and a "Continue" button.
  - Right: Home screen for Emily, identical to the first one.

## I. Color Palette

Purpose	Color	HEX	Description
Health Primary	Emerald Green	#34C759	Symbolizes vitality, energy, and growth.
Wealth Primary	Royal Blue	#007AFF	Represents trust, intelligence, and financial confidence.
Neutral Background	Light Gray	#F5F5F7	Clean and modern base for readability.
Text Primary	Charcoal	#1C1C1E	High contrast, easy to read.
Accent / Action	Gold	#FFD700	Adds warmth and a sense of achievement.

## II. Gradients (Optional)

Use blended gradients for header backgrounds or dashboard cards:

- Health Gradient: linear-gradient(90deg, #34C759, #00E676)
- Wealth Gradient: linear-gradient(90deg, #007AFF, #00B4D8)

## III. Typography

Text Role	Font	Weight	Size	Use Case
Logo / App Name	Poppins	Bold	28–32px	Splash screen, top bar
Headings (H1–H3)	Poppins	Semi-Bold	20–26px	Section titles (“Health Overview”, “Spending Summary”)
Body Text	Inter or Roboto	Regular	14–16px	General content, summaries
Labels & Buttons	Poppins	Medium	12–14px	Calls to action, tabs
Numeric Data	Roboto Mono	Regular	14–18px	Steps, calories, amounts, etc.

## **5. Technologies & Tools Used:**

### **Front-End (User Interface):**

Purpose	Technology / Tool	Description
Mobile Framework	Flutter (or React Native)	Enables cross-platform app development for Android & iOS with a single codebase.
UI Design System	Material Design / Cupertino Widgets	Provides a modern, responsive, and consistent UI experience.
Styling & Animations	Lottie / Rive	Adds engaging animations for onboarding and progress visualization.

## **6. Future Enhancements**

- AI-Powered Personal Coach
- Chatbot Assistance
- Advanced Analytics Dashboard

### **MOCKUP IMAGE:**



## WellTrack

The screenshot displays the WellTrack app's user interface. At the top, there are three small icons: a gear, a bell, and a search bar. Below this is a large orange box titled "Upcoming Session" featuring a profile picture of "Sahana V, Msc in Clinical Psychology" and the time "7:30 PM - 8:30 PM". A "Join Now" button is at the bottom. Below this is a dropdown menu labeled "All Sessions". Underneath are three separate session cards for "Sahana V", each with a profile picture, the date "31st March '22", the time "7:30 PM - 8:30 PM", and two buttons: "Reschedule" and "Join Now" (the last one is orange). At the bottom of the screen are four navigation icons: a house, a video camera, a speech bubble, and a group of people.

## 7. CONSULTATION

- The **Health and Wealth App** is an innovative digital platform designed to help users achieve a **balanced lifestyle** by integrating **physical wellness** and **financial well-being** into one seamless experience. By combining **health tracking**, **financial management**, and **motivational tools**, the app empowers users to take control of two of the most important aspects of their lives — **body and budget**.
- Through an intuitive interface, real-time analytics, and secure data handling, the app simplifies the journey toward a **healthier and wealthier lifestyle**. It not only tracks progress but also inspires consistency and mindfulness, creating long-term positive habits.
- With future enhancements such as **AI-driven insights**, **community engagement**, and **wearable integrations**.

# **Project -3**

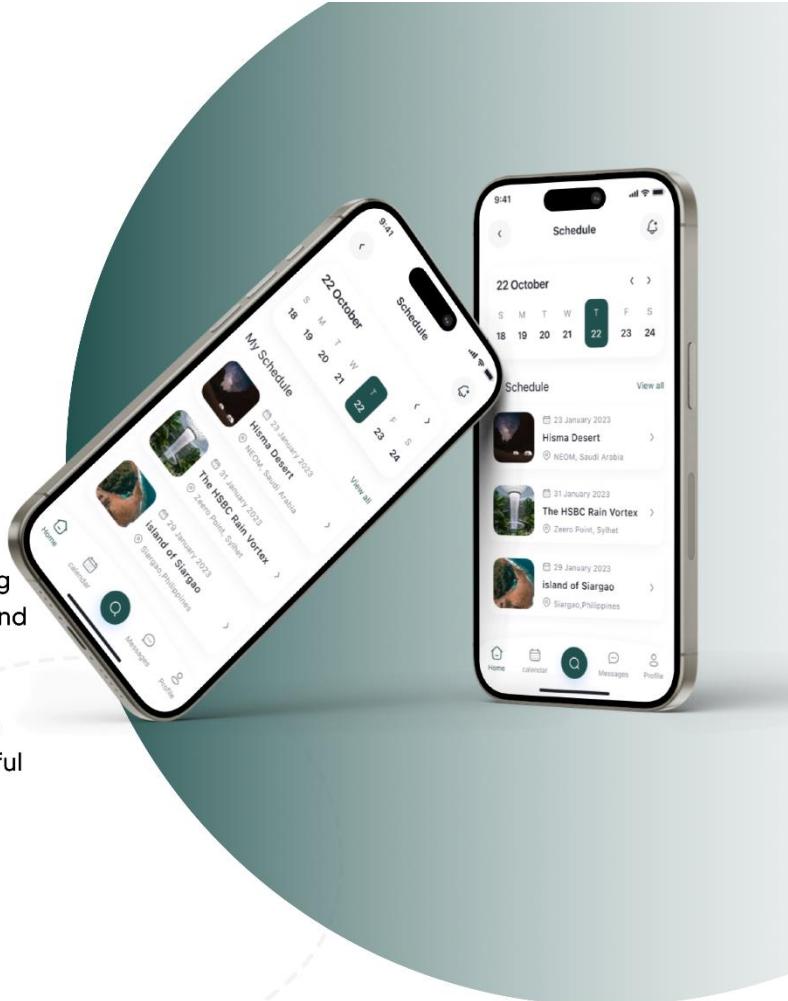
## **TravelMate – Smart Travel.**

### **Infinite Adventures**

# TravelMate – Smart Travel. Infinite Adventures.

## Tourist

Vibe Vault is a modern, elegant music streaming app designed to help you discover, organize, and enjoy your favorite tracks in perfect harmony with your mood. With its clean white interface, soft pastel tones, and intuitive navigation, Vibe Vault turns every listening session into a peaceful and immersive experience.



**Category:** Travel & Lifestyle

**Platform:** Android / iOS

**Purpose:**

**TravelMate** is a next-generation mobile application designed to simplify the way people explore the world. It enables users to **discover destinations, plan personalized trips, and immerse themselves in diverse cultures** with ease. Through **smart recommendations, curated itineraries, and interactive travel guides**, the app ensures that every journey feels unique, convenient, and memorable.

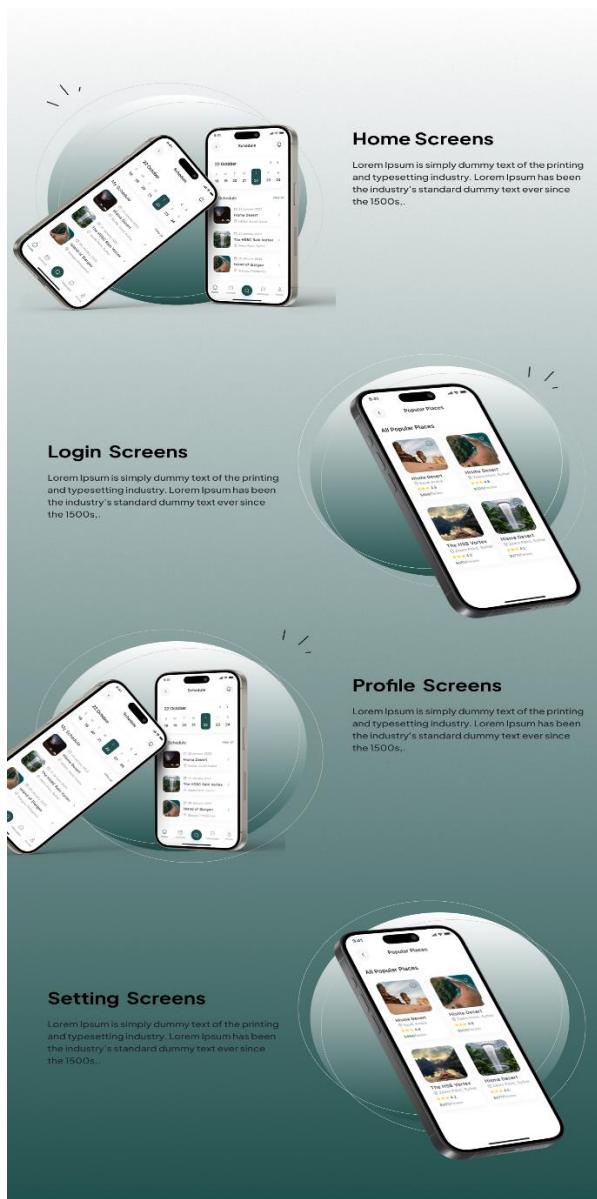
Whether you're an adventurous backpacker, a family on vacation, or a solo traveler seeking authentic experiences, TravelMate tailors your journey to your interests, budget, and travel goals. The app's mission is to connect people through travel — fostering curiosity, creativity, and meaningful experiences that bring the world closer together.

## Target Users

TravelMate is designed for a wide range of users, including:

- **Travelers and explorers** who love discovering new destinations.
- **Backpackers and adventure seekers** looking for offbeat experiences.
- **Solo travelers** who prioritize safety and guided exploration.
- **Families** planning vacations, sightseeing trips, or getaways.
- **Travel bloggers and influencers** documenting their journeys.
- **Casual explorers** looking for inspiration and travel planning tools.

## Wireframe Overview



The TravelMate app structure follows an intuitive, user-friendly design to deliver seamless navigation and accessibility across all stages of a traveler's journey.

## I. Splash Screen

- Animated logo and tagline: “*Wander Freely, Explore Smartly*”
- Simple gradient background with travel icon animation.
- Login options: *Continue with Google / Apple / Email*.

## II. Onboarding

- 3–4 short introduction slides highlighting main features:
  - *Discover New Destinations*
  - *Plan Personalized Trips*
  - *Offline Maps & Guides*
  - *Connect with Fellow Travelers*
- Ends with a “Get Started” button to begin the experience.

## III. Home Screen

- Dynamic carousel of *Recommended Destinations*.
- Sections for *Trending Spots*, *Hidden Gems*, and *Saved Trips*.
- Integrated weather widget and smart search bar.

## IV. Explore Screen

- Search destinations with filters for region, interest, and budget.
- Category chips for *Beaches*, *Mountains*, *City Life*, *Culture*, and *Food*.
- Interactive map view for visual exploration.

## V. Trip Planner

- Calendar-based itinerary creator.
- Add activities, transport options, accommodation, and notes.
- Smart suggestions for nearby attractions and restaurants.

## VI. Favorites / Saved Trips

- Tabs for *Trips*, *Destinations*, and *Experiences*.
- “Create New Trip” button with gradient glow.
- List and grid view options with thumbnails.

## VII. Profile Screen

- Personalized profile with user photo, travel stats, and badges.

- Settings for *Theme*, *Notifications*, *Currency*, and *Language*.
- Premium upgrade for *AI Smart Travel Assistant*.

## UI Design Style:

The **UI design** of TravelMate reflects modernity, simplicity, and inspiration — appealing to both casual travelers and digital nomads.

- **Look & Feel:** Clean, minimal, and travel-centric.
- **Color Palette:**
  - Primary: *Sky Blue Gradient* (#00AEEF → #0072FF)
  - Accent: *Coral Orange / Sunset Gold*
  - Background: *Soft Beige / Off-White* for readability
- **Typography:**
  - *Poppins / Nunito* — Headings (friendly and rounded)
  - *Open Sans / Roboto* — Body text (clean and legible)
- **Icons:** Minimalist travel-themed line icons for clarity.
- **Theme Options:** Dual-mode interface — *Light* and *Dark* .

## Key Screens

### • Home & Explore:

Hero carousel for top destinations, category cards (Adventure, Culture, Relaxation), and horizontal scroll for trending ideas.

### • Trip Planner:

Interactive calendar, smart itinerary builder, and the ability to add notes, activities, and attractions.

### • Favorites & Profile:

Saved trip cards with thumbnails, map previews, and achievement badges.

## Microinteractions

TravelMate enhances engagement through small yet delightful details:

- *Animated globe* spins on launch.
- *Heart pulse* when saving a trip.
- *Smooth transitions* between destinations.

- *Flash animation* when uploading travel photos.

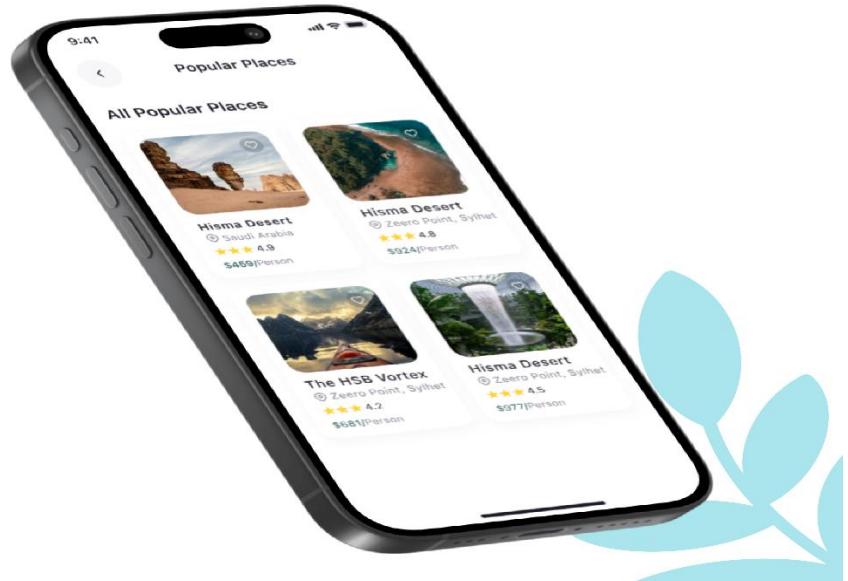
These microinteractions create a responsive, intuitive, and enjoyable user experience.

## Future Enhancements

To stay ahead in the travel tech landscape, TravelMate plans to integrate advanced features:

- **AI-Based Travel Assistant:** Personalized itinerary generation.
- **Offline Maps & AR Navigation:** Real-time guidance without internet.
- **Social Travel Sharing:** Connect, share, and collaborate with other travelers.
- **Smart Budgeting & Safety Tools:** Financial tracking and safety alerts.

## MOCKUP IMAGE:



## **Conclusion:**

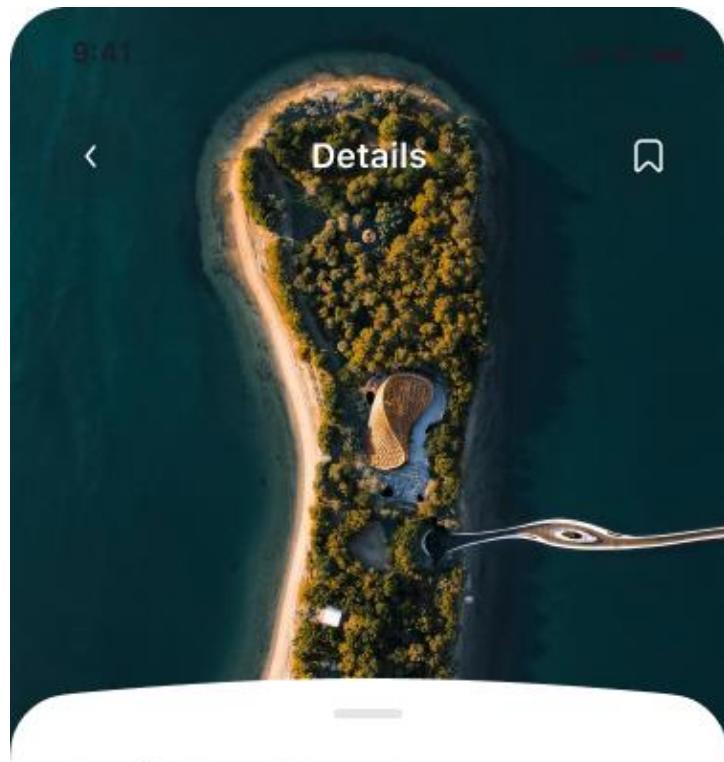
**TravelMate** is more than just a travel app — it's a companion that redefines how people explore the world.

By merging **intuitive design, intelligent recommendations, and seamless functionality**, it empowers users to travel smarter, safer, and more meaningfully.

As technology evolves, TravelMate continues to grow — shaping the future of travel through **innovation, connectivity, and inspiration**.

Every journey becomes more than a trip — it becomes an **unforgettable adventure**.

## **Screen Image:**



## Khai island beach

Chang Wat Phang-nga



◎ Thailand

★ 4.9(280)

\$80/Person



### About Destination

Experience the ultimate vacation package with our beach travel package. From airline tickets to recommended hotel rooms and transportation, we have everything you need ETC... [Read More](#)

[Book Now](#)

9:41



## Favorite Places

### Favorite Places



**Niladri Reservoir**

⌚ Tekergat, Sunamgnj



**Casa Las Tirtugas**

⌚ Av Damero, Mexico



**Aonang Villa Resort**

⌚ Bastola, Islampur



**Rangauti Resort**

⌚ Sylhet, Airport Road



**Kachura Resort**

⌚ Vellima, Island



**Shakardu Resort**

⌚ Shakartu, Pakistan

9:41



## Edit Profile

Done



**Imane fh**

Change Profile Picture

First Name

fh



Last Name

imane



Location

Algeria



Mobile Number

+213 ▾ 7653247990

