



# The Wellness Journey

Software Engineering Project Presentation



Mood Tracking



Nutrition Log



Hydration



Progress



*Empowering healthier lifestyles through technology*



# Project Overview & Objectives

## The Wellness Journey

A comprehensive wellness tracking application designed to help users monitor their daily health activities including mood, nutrition, hydration, and progress tracking.

### Track Daily Metrics

Monitor mood, nutrition, hydration, and other wellness metrics with ease.

### Monitor Nutrition

Track food intake and calories with a comprehensive journal system.

### Ensure Hydration

Track water intake with visual indicators and quick increment buttons.

### Visualize Progress

Interactive charts and progress tracking to stay motivated on your wellness journey.

### Personalized Profiles

User-specific settings and data persistence for personalized wellness tracking.

## Target Users

Health-conscious individuals

Fitness enthusiasts

Anyone looking to improve wellness

# Core Features & Functionality

The Wellness Journey offers five comprehensive features designed to cover all aspects of personal wellness tracking.



## Mood Tracking

Daily mood selection (Energized, Neutral, Sluggish)

Personalized greeting



## Food Journal

Add food items with calorie tracking

View complete food history



## Hydration Tracker

Visual water bottle representation

Track water intake in milliliters



## Journey Progress

SVG-based progress chart

Day streak tracking



## User Authentication

Secure login/signup system

User profile management



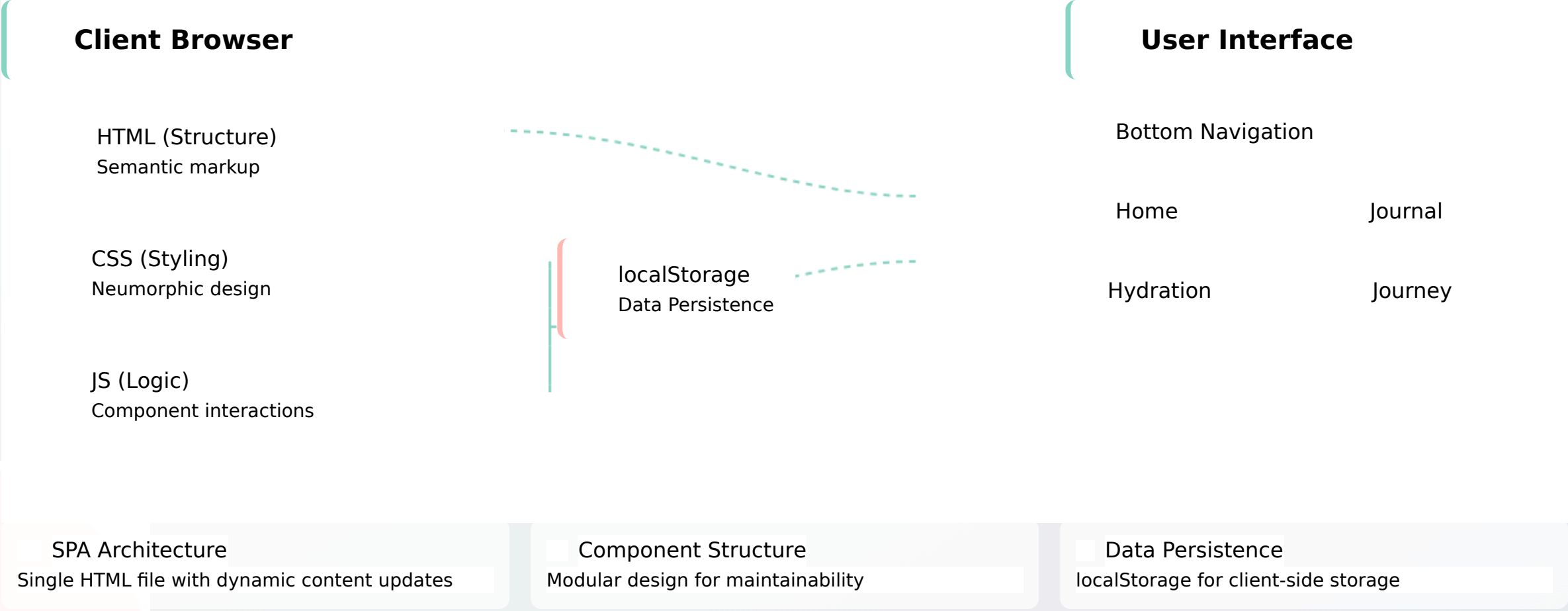
## Why These Features?

Comprehensive wellness tracking covers all aspects of health.

- Complete overview of your wellness journey
- Personalized experience

# System Architecture

The Wellness Journey follows a Single Page Application architecture with a component-based structure, utilizing web technologies for a seamless user experience.

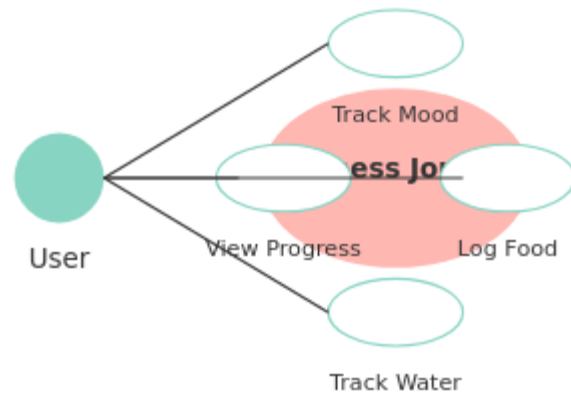


# UML Diagrams & Design

Complete software engineering documentation including use case diagrams, class diagrams, and context diagrams showing system interactions and data flow.

## Use Case Diagram

Visual representation of system features and user interactions

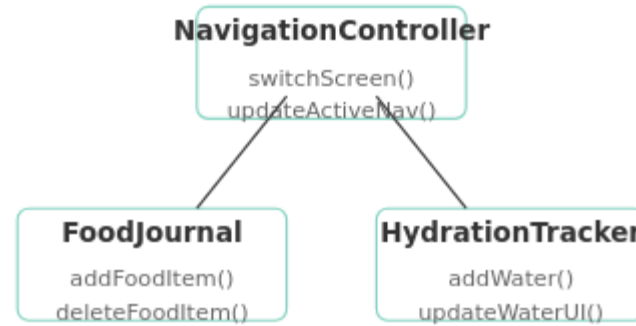


Features: Track Mood, Log Food, Track Water, View Progress

Includes relationships: User → Features

## Class Diagram

Structure of the application showing classes and relationships

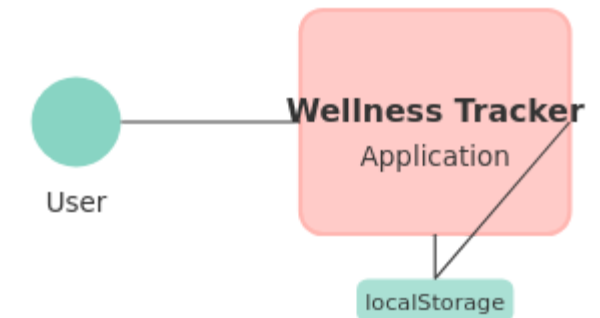


Main Classes: NavigationController, FoodJournal, HydrationTracker

Relationships: Composition, Association

## Context Diagram

System boundaries and external interactions



External Entity: User

System: Wellness Tracker Application

# User Interface Design

## Neumorphic Design System

Soft UI design approach with subtle shadows to create a gentle, modern aesthetic that feels both sophisticated and approachable.

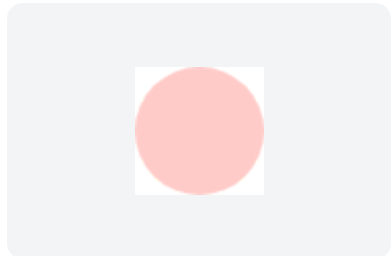
Soft Mint      Soft Coral

## Mobile-First Approach

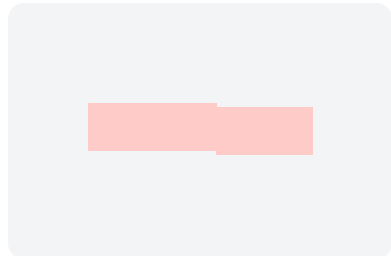
Responsive design optimized for mobile devices with adaptive layouts that scale beautifully to larger screens.

Touch-friendly interfaces      Efficient information hierarchy

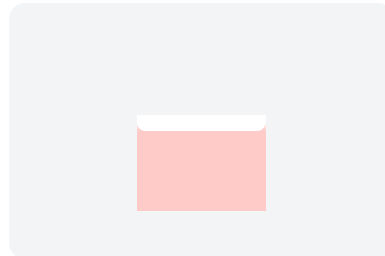
## Application Wireframes



Home Screen  
Mood tracking & quick access



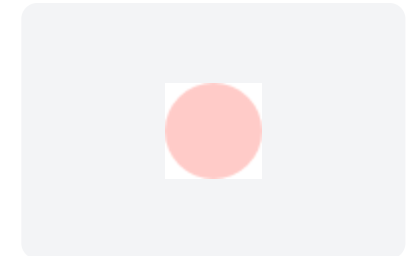
Food Journal  
Calorie tracking & history



Hydration  
Water intake tracking



Journey Stats  
Progress visualization



Profile/Auth  
User management & settings

Color Palette: Soft Mint (#88d4c3) & Soft Coral (#ffb7b2)

Built with HTML5, CSS3, and Vanilla JavaScript

# Technology Stack & Implementation

## Frontend Technologies

HTML5

Semantic markup structure

CSS3

Neumorphic (Soft UI) design system

Vanilla JavaScript

No framework dependencies

Google Fonts

Outfit font family

## Data Management

localStorage

Client-side data persistence

JSON

Data serialization format

## Design System

Color Palette

Soft Mint (#88d4c3), Soft Coral (#ffb7b2)

Typography

Outfit font family

UI Style

Neumorphic with soft shadows

## Architecture Pattern

### Single Page Application

SPA architecture for seamless user experience without page reloads

### Component-based Structure

Modular components for reusable and maintainable code

### Event-driven Interactions

Responsive UI with interactive elements and state management

# Live Demo & Key Features

Experience the working prototype of The Wellness Journey application, showcasing seamless user experience and core functionalities.

Profile Login

Home Screen

Food Journal

Journey Stats

## Smooth Transitions

Seamless navigation between screens with animated transitions.

## Form Validation

Robust form validation for login, signup, and food entry forms.

## Real-time Updates

Dynamic UI updates as you track food, water intake, and mood.

## Data Persistence

Data saved to localStorage and persists across browser sessions.

## Responsive Design

Optimized layout that works on mobile, tablet, and desktop.



# Future Enhancements & Security

## Planned Features

### Backend Integration

Server-side authentication, cloud data synchronization, multi-device support

### Advanced Analytics

Weekly/monthly reports, trend analysis, goal recommendations

### Social Features

Share progress with friends, community challenges, leaderboards

### Mobile Apps

Native iOS, native Android, Progressive Web App (PWA)

## Security Improvements

### Current Implementation

Client-side only authentication

Passwords stored in localStorage (not hashed)

No server-side validation

### Production Requirements

Server-side authentication with JWT

Password hashing (bcrypt)

HTTPS encryption

Input sanitization

CSRF protection

Security improvements are critical before deploying to production environments

# Project Outcomes & Success

## Achievements

Modern web application development with clean architecture

User-friendly interface design with neumorphic elements

Comprehensive feature set covering wellness tracking needs

Proper documentation with UML diagrams and wireframes

Scalable architecture for future enhancements

## Project Success Metrics

All features implemented

Complete documentation

Wireframes developed

Responsive design

UML diagrams created

Working prototype

## Learning Outcomes

### Technical Skills

- SPA architecture
- State management
- Form validation
- Neumorphic UI

### Engineering Practices

- UML creation
- Wireframing
- Component design
- Code organization

## Thank You!

*Empowering healthier lifestyles through technology*