# Project Report: Your Personal Health Manager

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#### **Overview**

This web-based health management application allows users to track and improve their lifestyle across four key areas: Fitness, Food, Sleep, and Mental Health. It includes features like workout logging, food intake recording, sleep tracking, and a mental health diary. Each module uses interactive charts to display user progress over time.

#### **Key Features**

- 1. Fitness Tracking Users log workout sessions, see calorie counts, weekly averages, and bar chart visualizations.
- 2. Food Tracking Input of meals with calorie tracking, weekly calorie trends with graphs.
- 3. Sleep Tracking Users record sleep duration and quality with visual summaries.
- 4. Mental Health Mood diary, reflection entries, and interactive viewing of past logs.

### **Before Login Pages**

- before\_login.html Welcome screen with platform overview
- services.html Describes core features with styled service cards and animations
- about.html Developer introduction using typing animations
- contact.html Contact information and GitHub link
- login.html User login form with JavaScript validation and page redirect

# **After Login Pages**

- fitness.html Records workout data, uses Chart.js to show weekly stats and manages logs
- food.html Logs meals, shows weekly calories via bar chart, and stores in localStorage
- sleep.html Tracks sleep and quality, computes averages, displays bar graphs
- mental.html Mood rating and diary, with full log management and calming content

# **Tools & Technologies Used**

**IDE** JetBrains WebStorm

**Assistant** Copilot

Frontend HTML5, CSS3, JavaScript

**Chart Library** Chart.js (via CDN)

**Fonts** Google Fonts: Inter, Playfair Display

**Data Storage** localStorage (in-browser persistence)

### **APIs / External Resources**

- Chart.js for weekly visualizations

- localStorage for in-browser data saving

## **Attempted Features and Results**

- Workout Logging and Charting Successful
- Food and Sleep Modules Fully functional with chart updates
- Mental Health Diary Successfully implemented with entry logs and updates
- Google Login Attempted but failed due to redirect/CORS issues

## **Future Improvements**

- Google Login with OAuth2 or Firebase Authentication
- Cloud backup with Firebase or Supabase
- - Wellness tip generator and motivational messages
- Downloadable PDF reports
- Nutrition API integration for meal autocomplete
- Improved responsive design for mobile