

Healthpal use case document

Personalized Health Monitoring APP



April 13, 2025

SAINT CHARLES COMMUNITY COLLEGE

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# Introduction

The **HealthPal** application is a health monitoring tool designed to assist users in tracking their essential health metrics, setting wellness goals, and receiving AI-driven health recommendations tailored to their unique data. HealthPal will cater to individuals seeking to monitor their health metrics and achieve their wellness goals.

# Explanation of Use Case Contents

Health monitoring is critical in fostering awareness about personal well-being and identifying potential health issues early. **HealthPal** application will help users monitor essential health metrics such as heart rate, blood pressure, and calorie intake, thereby helping individuals make informed decisions that positively impact their overall health and quality of life. HealthPal aims to make personal health management accessible to all. By leveraging cutting-edge technology, the appwill provide users with the tools they need to take control of their health in a simple, user-friendly manner.

# Use Case

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name of Use Case:** | Tracking and Managing Health Metrics and Dietary Intake | | | |
| **Created By:** |  | | **Last Updated By:** | Blessing Iyofor |
| **Date Created:** | April 13, 2025 | | **Last Revision Date:** | April 13, 2025 |
|  | |  | | |
| **Description:** | | Individuals who want to monitor health metrics and dietary intake | | |
| **Actors:** | | **Primary Actor**: HealthPal User  **Secondary Actors**:  **Google Sign-in API**: Validates user credentials  **Open Food Facts API**: Provides nutritional breakdown for food items  **OpenA**I: Generates personalized health recommendations  **Database Server**: Stores user data and logs | | |
| **Preconditions:** | | User must have HealthPal app installed  A stable internet connection to be fully functional  User is authenticated through Google sign-in | | |
| **Post-conditions:** | | Users' health metrics and food logs are successfully stored in the backend database  Personalized recommendations are generated and displayed  Users can view and update their data | | |
| **Flow:** | | The user launches the HealthPal app and signs in using Google Sign-in  The user navigates to the dashboard  The user logs health metrics and/or food intake  Food logs are sent to Open Food Facts API for nutritional breakdown  Health metrics and food data are stored in the database  User data is sent to OpenAI for personalized recommendations  Recommendations and updated data are displayed on the dashboard  The user logs out, and the session ends | | |
| **Alternative Flows:** | | None | | |
| **Exceptions:** | | If Open Food Facts is unavailable, food items cannot be analyzed for nutritional breakdown  If OpenAI is unavailable, recommendations cannot be provided | | |
| **Requirements:** | | Google Sign-In for user authentication  API interactions with Open Food Facts and OpenAI  Real-time data visualization on the dashboard | | |

Sponsor Acceptance

Approved by the Project Sponsor:

Date:

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