5500 Fit!

Team: OfferPlus

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Sprint 1: Scoping

GitHub repository: https://github.com/tsuki0805/CS5500 OfferPlus

GitHub project board: https://github.com/users/tsuki0805/projects/3/views/1

User Stories

- As an athlete, I want a web application that could display and analyze my everyday physical activity data to keep effective training.
- As a person who wants to keep fit, I need an app to calculate my daily physical calories.
- As someone who likes to record daily life, I want to know and analyze what day of the week I do the most physical activity.
- As an environmentalist, I need an application to track how much I run/walk/bike versus drive so that I can see my contribution to the environment in terms of transportation.

Story points description

In this project, we use story points to understand the size and the prioritization of each task. Linear scale is utilized for our story point system as shown below.

Story Points	Task Size
1 (level 1)	This task could be done in one day.
2 (level 2)	This task could be done in two or three days.
3 (level 3)	This task could be done in four or five days.

Table 1. Story Point System

Initial Design

Inputs

- User's physical activities details from summary (run, walk, bike, drive)
- Date and time of the physical activities
- Calorie consumption for each physical activity

Output

- Display a specific day of the week selected that performed most physical activities
- Display the ratio of physical activities versus drive in a week
- Display total calorie consumption for physical activities performed by day, week, or month
- Display of all the physical activities performed on a specific day

Major Abstraction

- User: A user of the web application who already imputed their physical activities and details.
- UserDailyActivities: A set of physical activities performed by the user every day including walking, transport, cycling and running.
- Summary: A summary of the physical activities performed by the user every day, including activity type, duration, distance, and calories.
- ActivityDetails: A single instance of a physical activity performed by the user, including activity type, start time, end time, duration, distance, and calories.

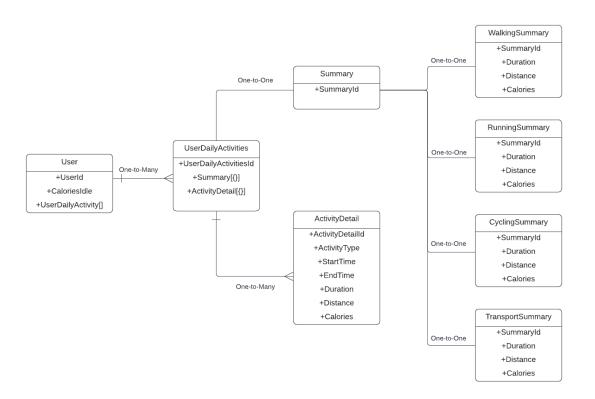


Figure 1. Entity Relationship Diagram

Use Case Diagram

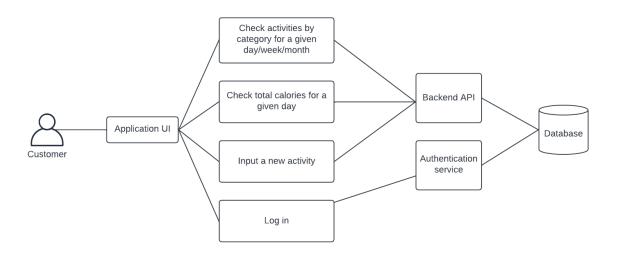


Figure 2. Use Case Diagram

Programming Languages and Development Environment

We will be using Java as the main programming language and Spring as the main framework for this application. We haven't decided whether we will use SQL or noSQL for the database and will update in the project design document once we have made a decision.