CS5500 Project Group 9: Sprint 1

Pradeepti Reddy Tandra
Zachary Sylvane
Sam (Donghyeon) Kim

Overview

Trello Board Link

https://trello.com/invite/b/juyOYrwV/354cac4debdfb8cd945c0b31eaed8cfe/cs5500-project-group-9

Project GitHub Repository

https://github.com/CS5500-Project-Group-9/project

USER STORIES

As a webapp visitor, I would like my data to persist, so it should be stored in a database	*We used the JDBC driver in IntelliJ to connect to MySQL, a relational database.*
As a webapp visitor, I would like to save the summary of my activities each day so I can look at them later.	*We used a JSON parser library, stored as a JAR file in our project to parse out each date's summary and add this information to our DAO.*
As a customer, I would like each day's summary to keep track of the following information: (1) The type of activity (2) it's duration (3) the number of calories burned (if applicable) (4) the distance traveled and (5) the date.	*We implemented a Class ExerciseDTO, which holds the desired information. We store the type of activity and the date as Strings and duration, calories, distance and id as ints. We have getters and setters for each field.*
As a database admin, I want a table in MySQL with the following fields: Activity, Duration, Calories, Distance and Date.	*We used a JSON parser library to retrieve the summary of each day and insert the specified fields into a single table in MySQL.*
As the CTO, I want to see a high-level visualization of the program to see if we can integrate it into our other projects.	*We created a simple UML class Diagram of our current working implementation.*

As the Senior Developer, I want to see that the program is properly tested before we rely on it for other projects.	*We did a visual test of the program and whether it is populating the database correctly. This tests the JSON parser, the DTO, DOA, and the JDBC driver's connection with MySQL.*
As the Senior Developer, I want to see some static analysis done on the program, to promote extensibility.	*We used CodeMR to analyze our code. Currently we have 0 issues. Our code has low coupling and high cohesion.*
As a Database Admin, I want to see a Database Diagram for the project so far to see if we need to consider other database options.	*We created a Database Design Diagram in UML.*
As a Database Admin, I want to be able to create and read from the database using DTOs and DOAs.	*We implemented the Data Access Object Design Pattern, using our DAO and Exercise DTO classes. We can currently Create and Read into the database.*

Project Visualization Tools

In our github repository (under sprintSubmissions/Sprint 1), we have included a **Database UML Diagram** along with a **UML Class Diagram** which shows what we have implemented so far in our program. There is also a codemr folder that contains a HTML version of our **CodeMR report.** It is a little buggy and shows some errors that disappear (as they should) when you click on Detailed Metric List on the left-side panel.

Here is a link to the directory for convenience.

https://github.com/CS5500-Project-Group-9/project/tree/main/sprintSubmissions/Sprint%201