

# CPSC 304 Project Cover Page

Milestone #: 3

Date: October 29th, 2023

Group Number: 18

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By typing our names and student numbers in the above table, we certify that the work in the attached assignment was performed solely by those whose names and student IDs are included above. (In the case of Project Milestone 0, the main purpose of this page is for you to let us know your e-mail address, and then let us assign you to a TA for your project supervisor.)

In addition, we indicate that we are fully aware of the rules and consequences of plagiarism, as set forth by the Department of Computer Science and the University of British Columbia

**Project Repository Link:**

[https://github.students.cs.ubc.ca/CPSC304-2023W-T1/project\\_c9j3b\\_l7e3b\\_x8c3b](https://github.students.cs.ubc.ca/CPSC304-2023W-T1/project_c9j3b_l7e3b_x8c3b)

**Deliverable 1: Project Summary**

Our project centers around developing a health and fitness/progress tracking application. In this domain, we are creating a comprehensive fitness app that empowers users to design workouts, monitor goal achievements, and schedule sessions with gym trainers. The database encompasses user profiles, workout plans, exercise details, progress tracking, trainer appointments, and facilitates social interaction, enabling users to share their fitness statistics and achievements with friends.

a. Functionality:

- i. User profiles: where users can set their profile with their phone #, name, weight, etc.
- ii. Workout plans: where users can create workout plans with specific exercises.
- iii. Exercise information: to store information on the exercises such as targeted muscle groups, equipment, reps, sets, etc.
- iv. Progress tracking: where users can set goals with specified metrics and track them over time.
- v. Trainer appointments: where users can book a training session at a gym at specific times to help their workout progress.
- vi. Social Interaction: where users can share with each other their statistics, etc.

**Deliverable 2: Project Timeline**

Start Date	Task Description	Assigned Team Member(s)	Deadline
Oct 30, 2023	<ul style="list-style-type: none"><li>Do the PHP/Oracle tutorial</li><li>Initial design of the frontend</li></ul>	Entire Team	Nov 1, 2023

Nov 2, 2023	Use the template provided to create the base of the application and connect to the database	<ol style="list-style-type: none"> <li>1. Ted</li> <li>2. Sean</li> </ol>	Nov 3, 2023
Nov 4, 2023	Create the SQL script used to create and populate all tables	Michele	Nov 6, 2023
Nov 7, 2023	<ol style="list-style-type: none"> <li>1. Frontend and backend for INSERT, DELETE, Aggregation with Group By, Division</li> <li>2. Frontend and backend for UPDATE, Selection, Aggregation with Having</li> <li>3. Frontend and backend for Projection, Join, Nested Aggregation with Group By</li> </ol>	<ol style="list-style-type: none"> <li>1. Michele</li> <li>2. Ted</li> <li>3. Sean</li> </ol>	Nov 14, 2023

Nov 14, 2023	Testing of the query operations	Entire Team	Nov 17, 2023
Nov 17, 2023	Create screenshots of query results	Entire Team	Nov 18, 2023
Nov 18, 2023	Create screenshots and schema after SQL script is run	Sean	Nov 19, 2023
Nov 19, 2023	More testing, last minute code changes, etc	Entire Team	Nov 25, 2023
Nov 25, 2023	Prepare cover page, repository link, project description, readme file	Ted	Nov 27, 2023
Nov 27, 2023	Final preparation of documents, and code required for milestone 3	Entire Team	Dec 1, 2023

## **Description of Challenges/Things left to do:**

### Challenges:

1. Backend Implementation: Constructing backend with selected tech stack to realize database functionality
2. Learn New Tech Stack: None of our members have experience with PHP or Oracle; must spend time to learn
3. GUI Integration: Integrating backend functionalities with GUI frontend
4. GUI Responsiveness and Intuitiveness: Ensuring the GUI is user-friendly, and its elements align well with the intended functions
5. Error Handling: Developing code that handles edge cases and creating descriptive error messages to ease testing and debugging
6. Time Constraints: All members have a busy schedule; coordinating to work with and around each other

### Things Left To Do:

1. Implement backend functionality
2. Integrate Application with Database
3. Implement Queries: Create the queries required by milestone 4 and 5.
4. Integrate backend with GUI frontend
5. GUI Fine-Tuning: Refine the GUI to be more intuitive based on feedback and ensure it aligns with the backend functionalities
6. Project Demonstration!