

CPSC 304 Project Cover Page

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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 description

a. What is the domain of the application? Describe it.

The domain of the application is fitness and wellness management, focusing on fitness tracking, diet management, personal training sessions coordination, group fitness coordination, body analytics records, and historical data storage of an individual's fitness history. By combining these features, the app provides a tool that allows gym members and trainers to collaboratively monitor and manage different aspects of a member's health and fitness journey.

b. What aspects of the domain are modelled by the database?

Our application aims to address the multiple demands of gym members and trainers in both fitness and wellness. The database models gym members, trainers, diet and nutrition plan, private workout session, group fitness session, body analysis records, workout history, equipment and room management. The model collects member data to help trainers create personalized workout sessions and provide professional advice on nutritional and dietary plans. It also helps members to self-monitor their diets and workout progress using body analytics and workout history records. Besides, it promotes group interaction through fitness classes. It also optimizes gym management by ensuring equipment and space availability through equipment and room details.

Database specifications

The database will be designed to store and manage various aspects of a member's fitness journey. It will provide the following functionalities:

1. Stores members' profiles, their workout history, body measurements
2. Provides trainers' backgrounds/availability
3. Allows members to schedule workout session with a selected trainer
4. Allows trainer to update and analyze the body analysis records for members
5. Allow trainer to recommend diet plans and workout routine to members
6. Provides informations about group/private courses details, and room/equipment availability

Description of the application platform

We will use department-provided Oracle as our database management system and PHP as our programming language. Our tech stack will be HTML and CSS for the frontend, PHP and Oracle for the backend and database.

ER diagram

