

CPSC 304 Project Cover Page

Milestone #: 1

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Group Number: 1 (project mentor: Suki)

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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

2. Project Description

This application is for gym managers, and the application domain is gym logistics and user management.

The domain aspects modeled by this database provides information about a gym's clients, equipment, classes, and merchandise. For each client, related important info such as emergency contacts, membership type, and email are included. Also, equipment information such as exercises that use it and the body parts that those exercises target are included.

This project addresses the need to quickly and easily get information about a client; example use cases include informing a user's emergency contact about an accident, or compiling an email list to notify users about a gym closure. It also facilitates keeping track of ever-changing gym logistics. For instance, clients may drop their membership or certain classes after a while, or the gym may need to get a new wave of equipment.

3. Database Specifications

As a gym manager, I would be able to search up a client and add/retrieve/update/delete information pertaining to that client, such as their emergency contacts or email. I can also add/retrieve/update/delete information regarding what the gym has to offer, like its classes and equipment. I would also be able to add/retrieve/update/delete general information regarding exercises, namely whether they involve equipment, and what body part they target.

4. Application Platform Description

Project platform: SQL

Application technology stack:

- Frontend: Typescript with React.js
- Backend: C#
- DBMS: Server Management Studio 19

ER Diagram

