University of British Columbia, Vancouver
Department of Computer Science

CPSC 304 Project Cover Page

Milestone #: 1

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Group Number: 46

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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

What is the domain of the application?

      The DB will be used for managing a chain of gyms where individuals can exercise and participate in classes. The main goal is to track members, their membership, staff, equipment and the records/achievements done by the members.

What aspects of the domain are modeled by the database?

      Our database will model the members, memberships, staff, classes, rental equipment, branches, specialized facilities, and records of a gym. Members have names, must own a membership, and can take classes, rent equipment, and/or have a personal trainer. Memberships have a price and tier level that determines which facilities a member can access. Staff members have names, ID numbers, and areas of expertise and can be a personal trainer, class instructor, and/or general staff. Classes have a name, schedule, and must have at least one instructor. Rental equipment has a barcode number and is available to be borrowed by at most one member at a time. Each gym branch has a name, location, and at least one staff member. Gyms can also have specialized facilities, such as a boxing ring or yoga studio. Members can also hold personal best records with a date, lift type, and weight. For example, the heaviest deadlift for a certain member is 300 pounds.

Database Specifications

What functionality will the database provide?

      The database will allow management to query for information about staff and their activity (where they work and what they are training and/or teaching). General staff members will be able to retrieve information about who is borrowing what equipment, who is in what class, or info about who they are training. Members can query for information on potential classes or trainers, as well as access to their own membership and record information.

Application Platform Description

What platform will your project use (PHP/JDBC/etc.)?

      Our project will use PHP.

What is your expected application technology stack (i.e., any other things that you're using other than whether you're using PHP or JDBC)?

      Our expected application technology stack includes Oracle and PhpStorm. For the frontend portion of the project, we will be using HTML, CSS and JavaScript.

ER Diagram