

CPSC 304 Project Cover Page

Milestone #: 1

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Group Number: 76

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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

What is the domain of the application?

- Domain of this application is gym/fitness center management.

What aspects of the domain are modeled by the database?

- Gym Security
- Gym Staff Coordination
- Gym Member Time Spent in Gym and (possibly) Fitness Classes
- Gym Equipment Management
- Gym Session Management

Database Specification

What functionality will the database provide?

This database allows users (namely gym staff/management) to view members and their associated memberships (described through clearance level), view staff, equipment and multiple descriptive elements about a gym. Staff could use the database system to get new members registered into the database, and staff could query members' gym sessions and fitness classes. This database would be a good way to organize shifts for staff, schedule personal training sessions, and book out certain areas of the gym for fitness classes.

Application Platform

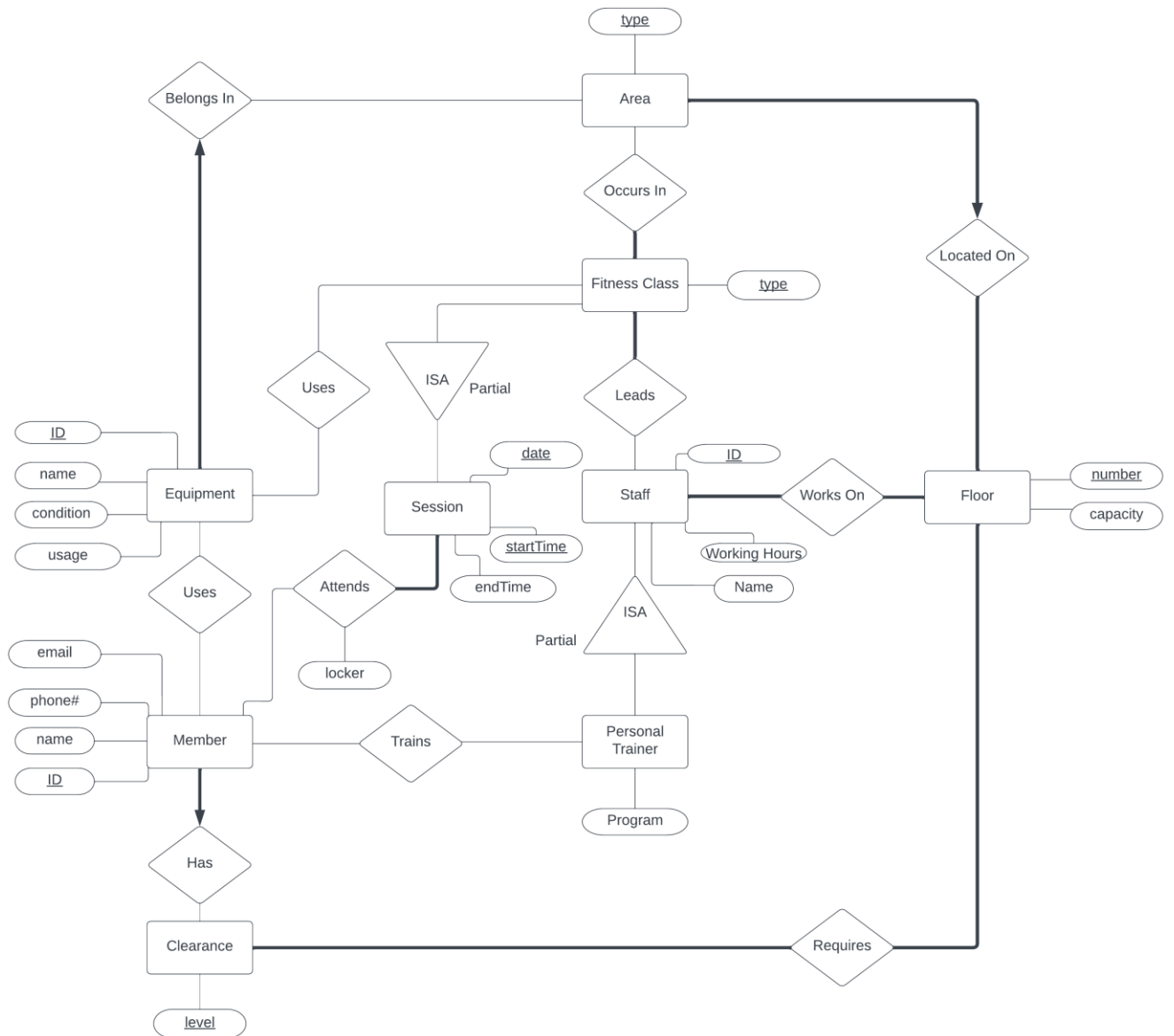
What platform will the final project be on?

The platform the final project will be on is JDBC.

What is your application technology stack?

We plan to use Java with Oracle as the backend for this project hosted on a server we will set up. Furthermore, since we are focusing on security but also accessibility, we plan to have a web frontend, which means that we would use a JavaScript framework (Vue.js or React.js) in order to query information from our database hosted on our server using a client-server interface.

ER Diagram



Other Comments and Assumptions

- By default, a session is a gym session unless it is a fitness class.
- An area can refer to any area on a floor, such as a cardiovascular area, weight training here, office space, etc.
- A session (including a fitness class) begins the moment a Member enters the gym, and only one member can enter the gym at a time.
- Personal trainers are all employed by the gym and are not external, therefore, are staff.
- A single clearance level can get you access to multiple floors, and a floor may also belong to different clearance levels. Example: gym clearance (floor 0), fitness class clearance (floor 1), and clearance for both (floor 0 and 1), management clearance (floor 0, 1, 2)