University of British Columbia
Department of Computer Science

CPSC 304 S1 2019

Group Project - Implementation of a Relational Database

Project Title:	Hero Database
Project Milestone:	Milestone 4

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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 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

Platform:
For the Hero Database, our group will be using the CS Ugrad Oracle install with PHP/Apache. We believe it will suffice for what we need to do.

Domains:
We will have 3 tiers of users: regular users, heroes and administrators (admins). There will be separate levels of interaction between the 3 tiers. There will be separate interfaces between regular users, heroes, and admin.

This is how we plan on splitting up the tiers of users:

- **Regular**
  - They can sort heroes based on abilities and schedule, via call, appointments with specific heros on certain days.
  - They also have the ability to look at some of the specific details on the heroes. For example, the hero class, any medals they earned, the total amount of jobs they completed.
- **Hero**
  - All the regular users' privileges
  - Heroes have the right to edit their schedule.
    - ex.: accept a request from regular users, thus their availability is changed
  - They can also schedule a friendly fight with other heros
  - They can also look up their total salary earned so far.
- **Admin**
  - Full administrative rights.
  - Regular and hero user's privileges
  - Can edit update hero information, IE register new heros,update heroes' abilities, power states, personal details, promote hero to a new rank, assign medals to heroes, update league, etc.
  - Enter new medal categories
  - Deny certain scheduled appointments (by removing them).
  - Check total number of heros employed
  - Remove heros
  - Change user's privilege, IE regular to hero, hero to regular, etc.

Interesting Queries:
- **Query by for hero Stat specifics**
  - Users will be able to query specific powerstats and their correlating hero (finding all heroes with strength >5).
- **Query by hero availability**
  - Find all the heroes available during a specific time based on their schedule
- **Query by Salary**
  - Find heros with the specific salary range

Proposed Work Split

We will be splitting the work up in the following manner: Shabab will help populate the database, and do front end work. Alex will populate the database and assist where required. Lian will be doing front end work, coding interesting queries as well as maintaining the repo. Shahbano will be doing backend.