

Re-Design: Database

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Change-Log

Biggest change was changing the ID's for each table to read as follows "TABLE_NAME_id". This will be easier to identify which id is coming from what table.

High-Level Overview

The database that I have chosen is a relational database. The database service that will be utilized is MySQL. MySQL will accomplish the relationship requirements in the application. MySQL also has the ability to encrypt and decrypt passwords with a function. PostgreSQL did not provide that functionality. The reasoning behind using a relational database is there are links to many tables and there is at least one many-to-many table.

MongoDB, was considered however there are concerns about it being able to securely bring back data. One weakness the MongoDB also has which is why it was not considered was the ability to have many-to-many relationships.

The database will keep track of the users, workouts, exercises and the exercise stats. Most of the tables are a one to many relationship, there is however one many-to-many relationship between the Workout and Exercise Stats.

Entity Relational Diagram (ERD)

Below is a rough draft of Entity Relational Diagram (ERD) that will be used for the capstone project. In it there are links between tables and identifying what types relationships they are between the tables.

