Team: Buff^2s

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Milestone #4

General Overview

Our Team has selected MongoDB as out database software for our workout website. It uses BSON, a very close relative to JSON in the NoSql family. It includes an extensive python library for CRUD operations and database setup, as well as an fast and easy way to create and maintain a local instance of the database. It will be running on a Google Cloud Platform remote machine, where we will also be hosting our website.

Link to Database Scripts

https://github.com/tyto8880/buffsgitbuff/tree/master/databaseScripts

Visual Representation of the Database Design

The next page contains a visual representation of the database layout.

MongoDB database

MongoDB uses BSON, which is very similar to Json databases. It follows key value pair organization

Buffs is a database of collections, where a collection is a collection of objects under a specific category

All FK relationships are matching in color. For example, muscle_id in the array muscles is a FK to muscle_id in Muscles collection

Buffs
- Equipment
- Exercises
- Users
- Workout
- Muscles

Equipment

PK	**equipment_id**
str	equipment_name

Exercises

PK	**exercise_id**
str	exercise_name
ary	muscles
ary	equipment

muscles

muscle_id

equipment

equipment_id

Users

PK	**user_id**
str	username
str	password
ary	favorite_exercises
ary	favorite_workouts

favorite_exercises

exercise_id

favorite_workouts

workout_id

Workouts

PK	**workout_id**
ary	exercises
str	workout_name

exercises

exercise_id

Muscles

PK	**muscle_id**
str	muscle_name