

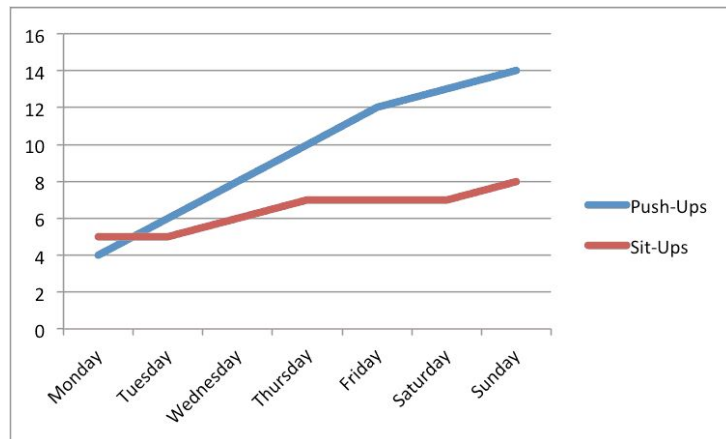
myFitness Analytics

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Overview

- Fitness app
- Users will be able to:
 - Search a database for different exercises
 - Add new workouts
 - Track their workouts
 - View their progress
 - Subscribe to trainers who can share workouts





Environment Description

Web Application

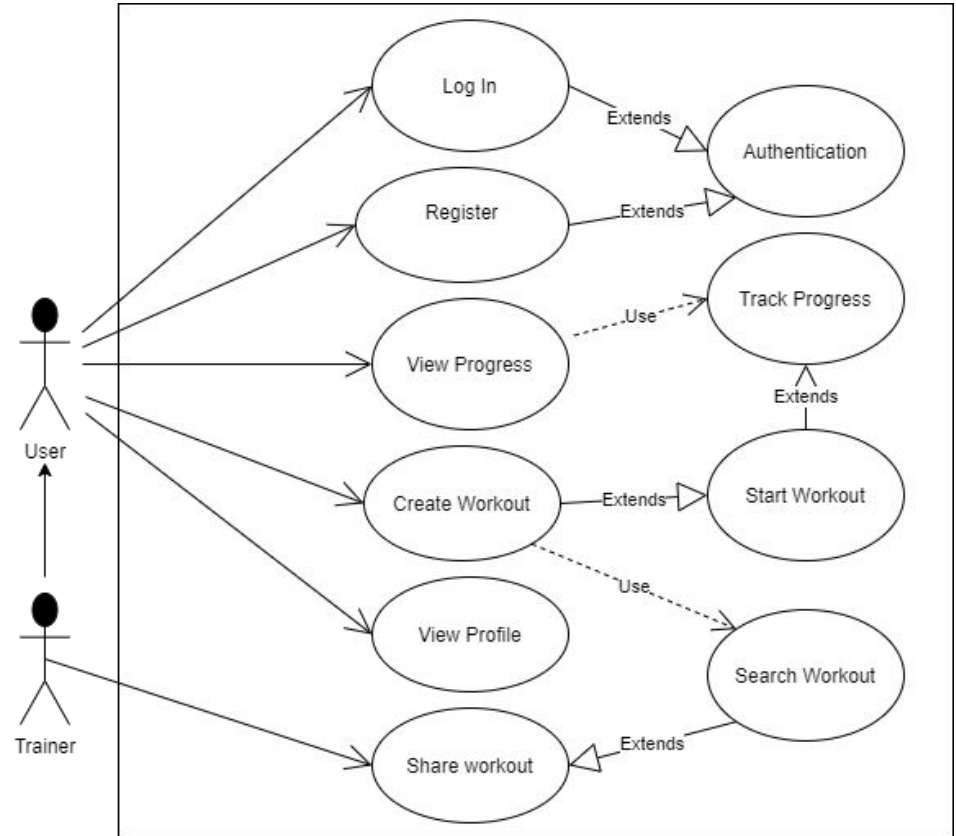
- Backend
 - Python Flask
- Database
 - SQLite
- Frontend
 - HTML
 - Bootstrap
- Graphics and Interactivity
 - D3.js





UML

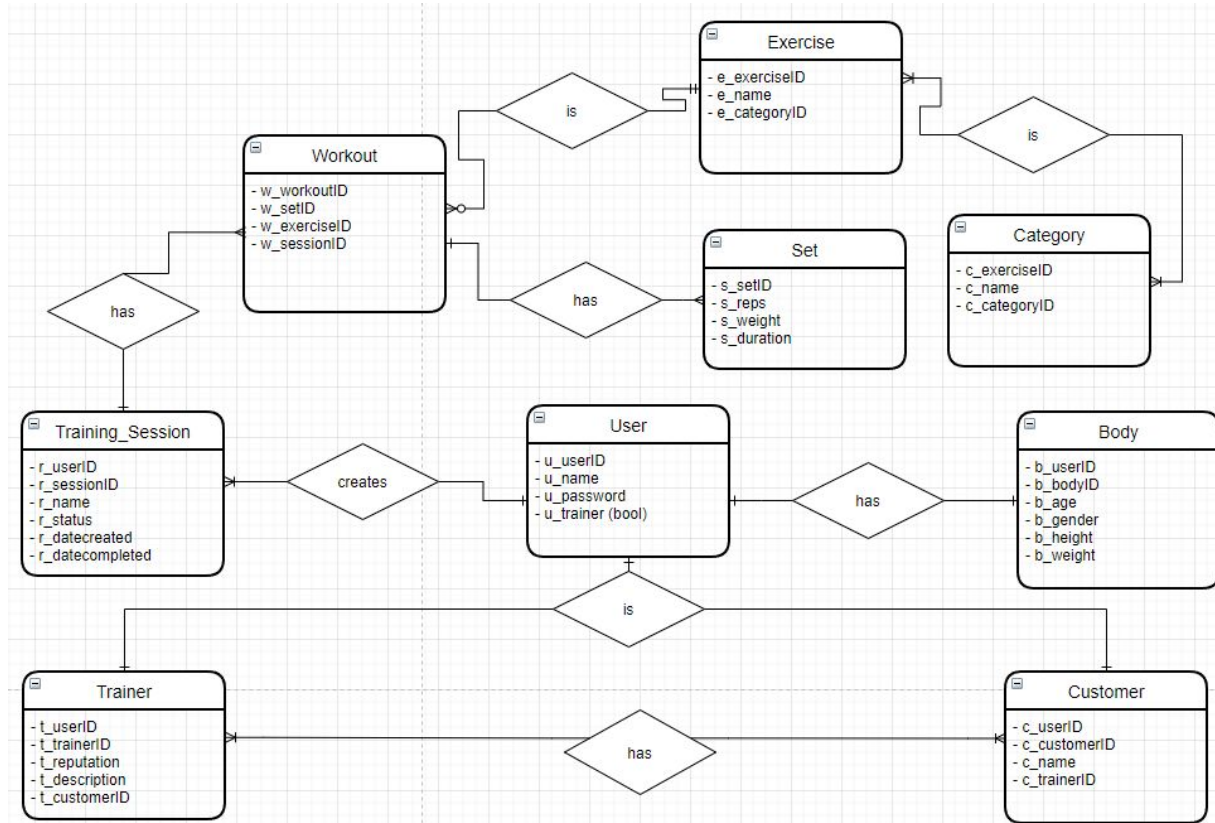
- User sessions
 - Login/Registration
- Create Workout
 - Choose exercise
 - Add sets/reps/exercise
- View Progress
 - Search workout by date
 - Line graph
- Subscriptions
 - Trainer and Client
 - Share workout plans





E/R Diagram

- 9 Entities
- One User has one Body and is a Customer and/or Trainer
- One User creates Many Training_Sessions
- One Training_Session has many Workouts
- One Workout has many Sets
- Many Workouts are one Exercise
- Many Exercise can have Many Categories





Relational Schema

- User
 - u_userID, u_name, u_password, u_trainer (bool)
- Body
 - b_userID, b_bodyID, b_age, b_gender, b_height, b_weight
- Customer
 - c_userID, c_subscriptionID, c_customerID, c_name, c_trainerID
- Trainer
 - t_userID, t_trainerID, t_reputation, t_description, t_customerID
- Workout
 - w_workoutID, w_setID, w_exerciseID, w_sessionID
- Exercise
 - e_exerciseID, e_name, e_categoryID
- Set
 - s_setID, s_reps, s_weight, s_duration
- Category
 - c_exerciseID, c_name, c_categoryID
- Training_Session
 - r_userID, r_sessionID, r_name, r_status, r_datecreatedm, r_datecompleted