

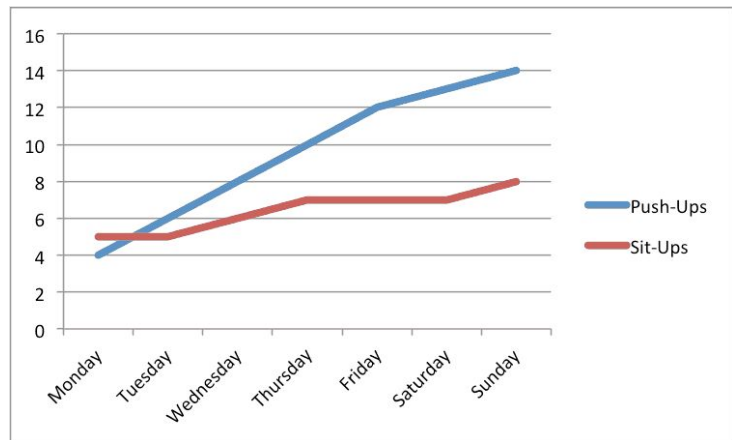
# myFitness Analytics

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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

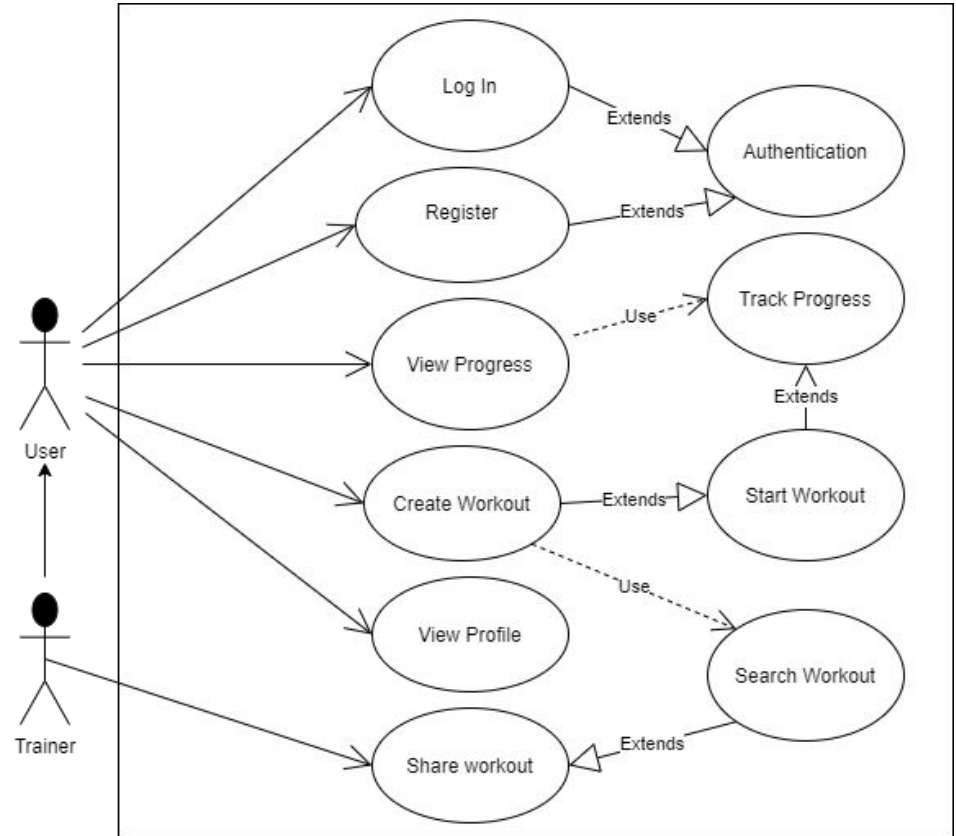
- Backend
  - Python Flask
- Database
  - SQLite
- Frontend
  - HTML
  - Bootstrap
- Graphics and Interactivity
  - D3.js





# UML

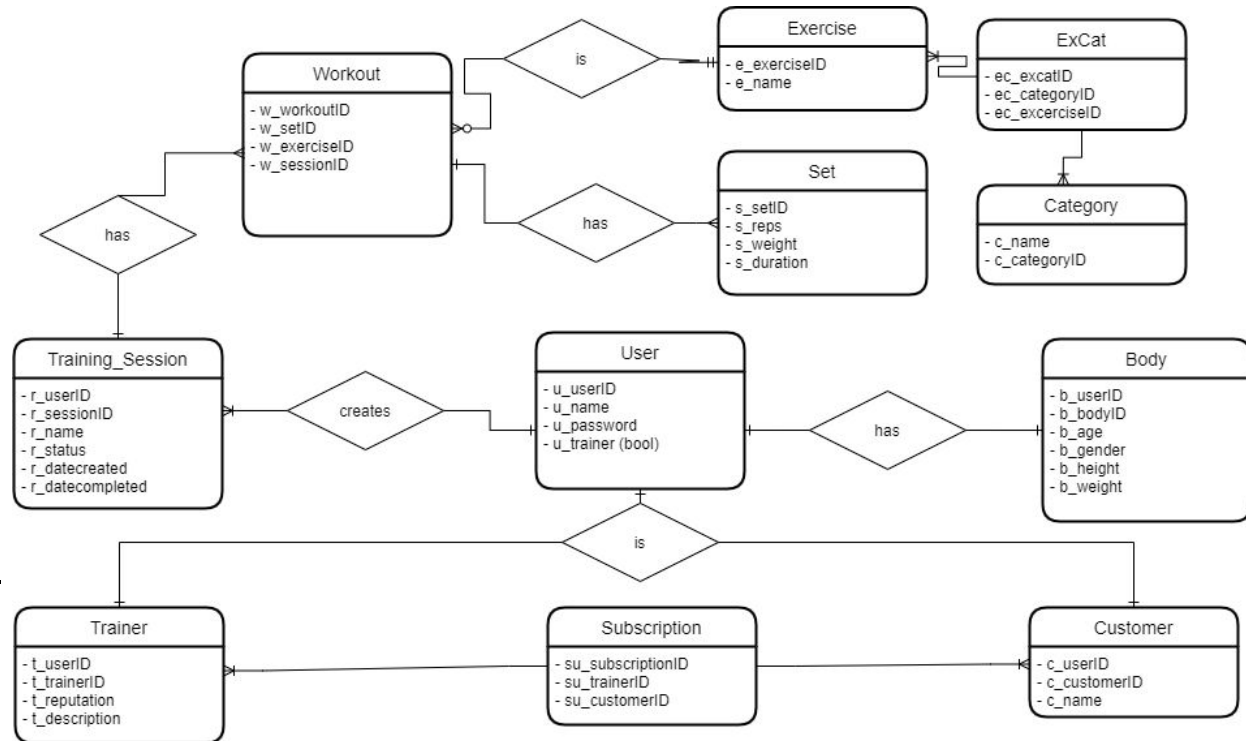
- User sessions
  - Login/Registration
- Create Workout
  - Choose exercise
  - Add sets/ reps/ exercise
- View Progress
  - Search workout by date
  - Line graph
- Subscriptions
  - Trainer and Client
  - Share workout plans





# 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
- Trainer
  - t\_userID, t\_trainerID, t\_reputation,  
t\_description
- Subscription
  - su\_subID, su\_customerID,  
su\_customerID
- Workout
  - w\_workoutID, w\_setID, w\_exerciseID,  
w\_sessionID
- Exercise
  - e\_exerciseID, e\_name
- Set
  - s\_setID, s\_reps, s\_weight, s\_duration
- Category
  - c\_name, c\_categoryID
- Training\_Session
  - r\_userID, r\_sessionID, r\_name, r\_status,  
r\_datecreatedm, r\_datecompleted
- ExCat (connects category to exercise)
  - ec\_id, ec\_categoryID, ec\_exerciseID,