

COMP 3005 - Final Project Version B

ASSUMPTION LIST

The order is based on the ER diagram from top to bottom and right to left

Partial/Total Participation Notation

Dotted line: partial participation (PP)

Regular line: total participation (TP)

ASSUMPTIONS - ER DIAGRAM BUILD PROCESS

Availability

- An availability must be possessed by 1 to many trainers (TP)

Trainer

- All trainers that are in the database have a security clearance checked (since they are viewing sensitive data and personal health information on the members)
- All trainers have some sort of certifications that can vary in different specializations
- A trainer must have 1 to many availabilities (TP)
- Each trainer must view 1 trainer schedule (TP)
- A trainer can host 1 to many bookings (PP)
- A trainer can view 1 to many profiles (PP)
- A trainer can assign (exercisID) to 1 to many profiles (PP)
 - As approved by Prof Abdelgheny, this part was not implemented (evidence uploaded as an email chain (Questions_To_Prof_Abdelghny.eml))

Trainer Schedule

- Each trainer schedule is viewed by exactly one trainer (TP)
- A trainer schedule must track 1 to many bookings (TP)
- A trainer schedule must be updated by an admin (PP)

Routine

- A routine can be owned by 1 to many profiles (PP)
- Possesses a description (so it can be anything in the form of a string)

Profile

- A profile can be viewed by 1 to many trainers (PP)
- A profile can be assigned 1 to many exercisIDs (PP)
- A profile can have 1 to many routines (PP)
- A profile can have 1 to many goals (PP)
- A profile can have 1 to many achievements (PP)
- A profile can make 1 to many payments (PP)
- A profile must be managed by a member (TP)

Goal

- A goal must be owned by a profile (TP)

- A goal can be tracked by an accomplishment (PP)
- Once a goal is achieved, its goal id is saved into the achievement
 - As approved by Prof Abdelgheny, this part was not implemented (evidence uploaded as an email chain (Questions_To_Prof_Abdelghny.eml))
- Goals only include the target weight, target pace (for running), and target body fat

Achievements

- An achievement must track 1 goal (TP)
- An accomplishment must be owned by a profile (TP)
- Stores the goal id as achieve id and it also stores date achieved

Member

- A member must manage a profile (TP)
- A member can view 1 member schedule (PP)
- A member can request 1 to many bookings (PP)
 - Member can choose Trainer, room and time
- Manager and profile entities are essentially one thing
 - Represent the users, just split the information into two entities

Member Schedule

- A member schedule must be viewed by a member (TP)
- A member schedule can track 1 to many bookings (PP)
- A member schedule must be updated by an admin (TP)

Bookings

- A booking must be tracked by a trainer schedule (TP)
- A booking must be hosted by a trainer (TP)
- A booking must be tracked by a member schedule (TP)
- A booking must be requested by a member (TP)
- A booking must be processed by an admin (TP)
- When a member requests a booking, the status will be "pending"
 - The system will determine if the trainer is available on specified date and time and display as a boolean value
 - The system will determine if the equipment status is > 7 in the requested room and display as a boolean value
 - The system will determine if the room requested is available and display as a boolean value
 - The admin will review these boolean values and ultimately approve or deny the booking
 - Upon approval, the admin must manually create an invoice/billing to the member, set the price and billing date and send it to the member.
 - When a member pays, the billing will disappear from both the member side and admin side.

Payment

- A payment must be made by a profile (TP)

- A payment must be processed by an admin (TP)
- Mentioned earlier: a payment is submitted separately and manually from the admin approving a booking request. Basically, when an admin approves a booking, the admin must then manually submit a payment to that member.

Admin

- An admin can process 1 to many payments (PP)
- An admin can process 1 to many bookings (PP)
- An admin can monitor 1 to many equipments (PP)
- An admin can update 1 to many trainer schedules (PP)
- An admin can update 1 to many member schedules (PP)

Equipment

- An equipment must be monitored by an admin (TP)
- The status of an equipment is determined by it's score (score is out of 10)
- The admin can update it's score anytime and specify the date of the last check
- If the score is below 7, then when a member requests a booking that will be using this equipment, the admin will see "false" in the status of the equipment meaning it's quality is not adequate to be used.
- Equipment score is to be selected from 1-10.