

# **Functional Requirements for Fitness Gym**

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## Overview

A client (GymMember) has the possibility to choose a fitness gym, which has a specific location, schedule and a limited number of available positions (capacity).

A client may decide to follow up a particular Gym trainer, who can manage various gym programs (pilates, cycling, zumba, stretch, etc).

The fitness gym is managed by an administrator/user, who has the following responsibilities: build business relationships with clients, managing customer cards, pricing of subscriptions / sessions, granting loyalty packages and ensuring appropriate allocation of trainers.

## Functional requirements

- 1). A client can choose the subscription type from a list and afterwards may retrieve the gym trainer from a list.
- 2). The client must consider that each gym trainer is available at certain hours during the day and has allocated various gym programs. Each trainer has a minimum of 5 and a maximum of 20 persons per session. The session is one hour long.
- 3). The client can make a reservation to one location of the fitness gyms at the same hour based on the aggregation of the following information: gym program, trainer, hour.
- 4). The client can buy the subscriptions / sessions based on a card, which is issued by the administrator. Cards that are issued by the administrator may be valid for one week, one month, six months or one year, or a receipt for one session.
- 5). The administrator is responsible to validate the client reservation based on the card validity (ensure that the subscription was paid and the card has not expired) and the fitness gym capacity (ensure that the capacity is not exceeded). In addition, the client must be at least 14 years old.
- 6). The client should receive a notification from the administrator regarding the successful completion of the reservation. If there are no more available places, a message with the next available date should appear.
- 7). A client with a non-valid card (client who has not paid the subscription for current period) cannot make reservations and should receive a message according to which the card has expired.
- 8). The administrator can grant loyalty packages to devoted clients or for the month in which the client celebrates his birthday and a discount for students.
- 9). In case a trainer is not available, the administrator can check the list of trainers and see if one of them has a free space (number of people should be between 5 and 20) and redirection the member.

## Flows

- 1). The administrator successfully record the client in the database and can print the card (enter client personal data, establish the gym program based on client requirement, assign a gym trainer, receive payment from the client and validate it, print the card).
- 2). Client budget is less than subscription price (enter client personal data, establish the program based on client requirement, assign a gym trainer, print a message).
- 3). Renew the card (check the existing client personal data and introduce new data, if necessary, validate/modify the existing gym program, assign a gym trainer, receive payment from the client and validate it).
- 4). The client have lost the card (check the existing client personal data, print new card).
- 5). No available places for the chosen period (enter client personal data, trainer not available for the chosen program and period).
- 6). Validate entrance by checking card availability.