

Fitness Club Management System

Lincoln Fitness has about 1000 members and 10 personal trainers and is keen to automate its current manual system of managing its members and trainers. The club would like to keep track of the member's subscription payment (monthly), member's usage of the gym as well as to provide an option for member to book exercise sessions with its trainers.

The management is keen to store members' information and keep track of their training and monthly subscription payments. Members can log in to the system to update their profile as well as to book training sessions with one of the 10 personal trainers. Trainers should be able to use the system to offer specialised training and view their trainees information. The specialised training is not part of the monthly subscription payment and members are required to pay additional fees for each training.

The fitness centre also runs exercise classes for its members. However, each class can only accommodate a maximum of 30 members. To join these classes, members have to book these classes ahead of time to secure their places. These classes are offered as part of the subscription and there are no additional charges for joining these classes.

There are three types of attendance:

1. When a member wants to use the gym
2. When a member attends a specialised training session.
3. When a member joins the classes.

When a member arrives at the fitness centre, he/she scans his member's card to record his/her attendance and the system should be able to determine if the member is attending a training session, a class or just using the gym.

There are three types of users with the functions they would like to do:

1. Admin/Manager
 - a. Manage member details by adding, updating and deleting
 - b. Process payment from members
 - c. View member's attendance
 - d. View subscription status
 - e. View trainer's classes
 - f. Generate financial report for the club
 - g. View popular classes
 - h. Sends reminders to member when their subscription is due
 - i. Sends news/updates to member
2. Member
 - a. View and update profile
 - b. View list of trainers and exercise sessions
 - c. Book a session with a trainer
 - d. Book an exercise class
 - e. Make a payment
3. Trainer
 - a. View and update profile
 - b. View trainee's information