

# Acme Fit

## C-level requirements

### Information requirements

- The actors of the system are users, monitors, and administrators. The system must store their names, surnames, and email addresses; optionally, it might also store a phone number and a postal address.
- Administrator manage gyms. Every gym has name, address, price and a phone number.
- When a user sign up for a gym, he or she can make a request to a monitor for a personal routine exercise. The system must store the title, text and status.
- Monitors can create exercise routine, which include a title, duration, description and attachment with video url example.
- Every exercise routine has a type of exercise: there 4 types by default: **Endurance, Strength, Balance, Flexibility**
- Actors can register their social identities. Such identities consist of a nick, the name of a social network, a link to that social network, and an optional picture.
- Actors may exchange messages. For every message, the system must store its sender, its recipient, the moment when it was sent, its title, its text, and an arbitrary number of attachments.
- The system can issue invoices to users. For every invoice, it must store the moment when it's issued, Acme Fit's VAT number, some information about the user, the details, the total amount due (in EURO), and the credit card that was used to pay it.

### Functional requirements

- An actor who is not authenticated must be able to:
  - o Register to the system as a user.
  - o Browse the different gym
- An actor who is authenticated as a user must be able to:
  - o Browse the different gym and sign up in one gym.
  - o Once he/she is signed up, he/she can browse the exercise routine and sign up.

- o Make a request to a monitor for a personal exercise routine.
- An actor who is authenticated as a monitor must be able to:
  - o Manage his or her routine exercise, which includes creating, listing, editing and deleting them.
  - o Approve or deny a request to ask for any of his or her personal routine exercise.
  - o List the requests to his or her personal routine exercise.
- An actor who is authenticated as an administrator must be able to:
  - o Manage the gyms, which includes registering, listing, editing and deleting them.
  - o Display a dashboard with the following information:
    - The minimum, the maximum and the average number of exercises routines created per monitor.
    - The most type of exercise done.
    - The ratio of actors with social identity.

## **Non-functional requirements**

- The system must be available in English and Spanish.
- The system will be run in Spain, so it must comply with the Spanish regulations except for the following ones: a) the requirement in LOPD regarding keeping files and communications secure and confidential; b) the requirement in LSSI regarding informing the Chamber of Commerce about your internet domain.
- The system must be as efficient as possible.
- Pictures are not required to be stored by the system, but referenced by means of their URLs.
- The validity of a credit card must be checked as follows: a) its number must be run through Luhn's algorithm to checksum it; b) the expiry date must be confirmed to be at least seven days in future.
- Wherever a credit card is shown, it must be masked, i.e. only the leading and trailing four digits must be readable; the others must be displayed as asterisks.

## **B-level requirements**

### **Information requirements**

- The system has a new kind of actor: nutritionist. For every nutritionist, the system must store the name of the company for which he or she works.
- Nutritionist can create diets. This diets have a title, description, duration(months) and a quantity of ingredients.
- Nutritionist can create ingredients. An ingredient has a name, a description, and a number of calories.

## Functional requirements

- An actor who is authenticated must be able to:
  - o Browse the catalogue of diets.
- An actor who is authenticated as a user must be able to:
  - o Follow a diet that he likes.
- An actor who is authenticated as a nutritionist must be able to:
  - o Do the same as an actor who is authenticated.
  - o Manage his or her diets this include creating, editing, deleting and listing them.
  - o Manage his or her ingredients this include creating, editing, deleting and listing them.
- An actor who is authenticated as an administrator must be able to:
  - o Display a dashboard with the following information:
    - The minimum, the maximum and the average number of diets created per a nutritionist.
    - The ratio of diets being followed.

## Non-functional requirements

- A random diet will be announced on the homepage.

## A-level requirements

### Information requirements

- The system has a new kind of actor: manager.
- A manager can offer practise sport in his or her different courts. A court has a name, rate (per hour) and a kind of sport.
- An user can make a request to rent a court. This request has a check-in and check-out hour, a credit card and status (status can be ACCEPTED, PENDING or DENIED).

## Functional requirements

- An actor who is not authenticated must be able to:
  - o Browse the different courts.
- An actor who is authenticated as a manager must be able to:
  - o Do the same as an actor who is authenticated.
  - o Manage the courts of the gym, which includes registering, editing, deleting and listing them.
  - o Approve or deny a request to rent any gym's court.
  - o List the requests to the gym's court.
- An actor who is authenticated as a user must be able to:
  - o Make a request to rent a gym's court.
- An actor who is authenticated as an administrator must be able to:
  - o Display a dashboard with the following information:
    - The maximum, the minimum and the average number of courts per manager
    - The ratio of courts with requests ACCEPTED
    - The ratio of courts with requests DENIED

## Non-functional requirements

Intentionally blank

## A+ level requirements

In Acme fit, we want another design style for our web-page. We recommend use the Bootstrap for giving us a new and nice design for our web-page. We ask for:

A report in which you explain how this Bootstrap technology works and how this technology is implemented in the project. The report is expected to be 1 000-word long; illustrations are strongly recommended.