

Corpore Fit

Requirements Document

Information requirements

1. The system has 6 different actors: User, Manager, Nutritionist, Editor, Provider and Administrator. For every actor, the system must store the following information: Name, surname, phone number, email, birthdate, an optional address and an optional profile picture.
2. Apart from the basic information of each actor, users can store the following optional information: their social networks, a list of his or her friends, a gym from which they are subscribed to at the moment, a role (bodybuilder, powerlifter, etc.); a history of marks; a routine of exercises; a history of measures, an assigned nutritionist and a list of appointments with the given nutritionist.
3. A history of measures consists in lists of a user's measures. Each list will have a creation date and the following measures: weight, chest, tight, waist, biceps and calf.
4. A history of marks consists in lists of a user's own marks. Each list will have a creation date and the following marks: bench press, squat, deadlift, pull-up and rowing.
5. A routine of exercises consists in a custom name and a list of exercises for each day of week. Every exercise will have a name, a description, an optional picture and an optional video.
6. A user may have some credit cards. The system must store the following info about them: User's name, a number, a security number and an expire date.
7. Every manager will have assigned a gym, which has a name, a description, an image, an address, a schedule, a fee, a list of activities and a list of available services. A manager can also add some social network profiles.
8. Every social network profile must have a name (Twitter, Instagram, Facebook, Youtube) and a link to the profile.
9. Every activity will have a title, a description, an image, the trainer assigned to it, a start and end time and the room where it will take place. Each room will have a name and a maximum capacity.

10. A nutritionist provides his or her services to the users. He or she will have to add a URL that has a curriculum, which will be evaluated by the admin. The nutritionist will also have an address for his or her office. The system must store a schedule for the appointments that the users will make.
11. An appointment will have the user that makes it, the nutritionist who will attend, the time and some optional comments by the user at the time of making. If the nutritionist or the user cancel the appointment, the system can store the reason.
12. A nutritionist may have some diets that he or she likes. Every diet will be composed of seven lists of food, one for each day of the week. Each food will have a name, the calories it has, the time when it must be eaten (breakfast, mid morning snack, lunch, mid afternoon snack and dinner), an image and the amount.
13. An editor may write articles. Each article or news will have a title, a body text, one or more images (one of which will be the miniature) and a publication date. It will also have an average rating that the users will make.
14. An actor may comment on articles. Each comment has a publication date, the actor who wrote it and the comment text. Additionally, an actor may reply to another comment.
15. A provider offers products (energy bars, sports equipment, etc.) which users can buy online. Each product must have a name, a description, an image, a price, the provider and the number of units left. Sometimes, the price of a product may be affected by an advert.
16. Every advert must have a start date, an end date, the list of associated products and a title.
17. When a user places an order, the system stores the quantity, the price of each product at that time and the date.

Functional Requirements

18. An actor who is not authenticated must be able to:

1. Register to the system as a user or nutritionist
2. See the profile of any user, which include his or her personal data, measures, marks, social network profiles and routine (only if the user is not private).
3. Navigate to a gym and see its data (name, description, image, address, etc.), the manager assigned to it and the users who have subscribed to it.
4. List articles and display them along with its commentaries, as long as it is not a draft article. He or she can also see the profile of the editor.
5. See the list of nutritionists, display one to see his or her data and schedule.
6. Search any actor in the system by his name.
7. See the top 10 users with best marks, grouped by role and exercise.
8. See top 5 gyms with more subscribed users.
9. See the list of products available to buy.
10. Navigate to every user's social network profiles and every gym's social network profiles.

19. An actor who is authenticated as a user must be able to:

11. Do everything a non-authenticated actor can do, but register to the system.
12. See and edit his or her own profile.
13. Add a list of marks to his or her marks history.
14. Show statistics where he or she can see his or her progress in marks.
15. Add new list of measures to his or her measures history.
16. Decide who will be able to see his or her data: public, friends or private.
17. Manage his or her own routine of exercise, which include creating, editing, displaying and deleting it.
18. Add up to 4 social network profiles.
19. Rate and comment articles. He or she will also be able to create and reply to other comments.
20. Display his or her friend list, and add another user as a friend. When a user adds other user as a friend, a friend request is sent. The other user can accept it or not. The user must be able to delete a friend from his or her list too.
21. List the gyms close to his or her address.
22. Manage his or her credit cards.
23. Subscribe to a gym and rate it. In order to subscribe to a gym, the user must have a valid credit card.
24. Cancel the subscription to a gym.
25. Join an activity that takes place in the gym that he or she has subscribed to.
26. Make an appointment with one of the nutritionists.
27. List and display the diets proposed by the nutritionist and follow one of them.

28. Display the part of the diet corresponding to the moment the user access his profile.
 29. Place an order of products.
 30. List the products that have an advert.
20. An actor who is authenticated as a manager must be able to:
31. Do everything a non-authenticated actor can do, but register to the system.
 32. See and edit his or her own profile.
 33. Add up to 4 social network profiles to his or her gym.
 34. Add and edit his or her gym's data.
 35. Manage the activities that take place in the gym: Add, edit and delete one from the list.
 36. Manage the rooms of the gym: Add, edit and delete one from the list.
21. An actor who is authenticated as a nutritionist must be able to:
37. Do everything a non-authenticated actor can do, but register to the system.
 38. See and edit his or her own profile.
 39. Add a URL where his or her curriculum is stored.
 40. Add and edit the address of his or her office.
 41. Manage his or her schedule.
 42. Accept or reject appointments made by users.
 43. Manage his or her own diets: List them, create one, edit one and delete one.
22. An actor who is authenticated as an editor must be able to:
44. Do everything a non-authenticated actor can do, but register to the system.
 45. See and edit his or her own profile.
 46. Create and delete articles. An article can be edited as long as it is saved in draft mode.
23. An actor who is authenticated as a provider must be able to:
47. Do everything a non-authenticated actor can do, but register to the system.
 48. See and edit his or her own profile.
 49. Manage his or her own products: Listing, creating, editing and deleting them.
 50. Create an advert and associate products to it.
24. An actor who is authenticated as an administrator must be able to:
51. Do everything a non-authenticated actor can do, but register to the system.
 52. See and edit his or her own profile.
 53. Register managers, providers and editors to the system.
 54. Validate nutritionists once he or she has provided his or her curriculum and schedule.
 55. Ban registered actors when he or she considers it necessary.
 56. Delete gyms.
 57. Delete articles.
 58. Delete comments.
 59. Delete products.

Nonfunctional Requirements

25. The system should be available in spanish and english.
26. If an administrator deletes a gym from the system, the associated manager account will be automatically deactivated. In order to activate it again, the manager would have to request the administrator to do so but this will be external to the system.
27. An user mustn't be able to comment a gym unless he/she has it in its profile.
28. An user will only be able to make an appointment with an available and validated nutritionist
29. An user will have a default image if none is provided. The default image is the shape of a bodybuilder.
30. The roles available are: bodybuilder, powerlifter, calistenia, strongman, crossfitter, weightlifter.
31. Only videos from YouTube will be accepted and its URL mustn't be shortened.
32. Whenever an user adds a list of marks, the last ones will be assigned to the new ones if these haven't changed.
33. Images should be hosted in external information systems, as they will not be stored in the system.
34. Curriculumms should be hosted in external information systems like Dropbox or Google Drive.
35. Nutritionists' appointments will be 30 minutes long.
36. The units in stock of an available product must be only shown to its provider. The rest of actors will only be able to know if the product is in stock.
37. An user must have a credit card if he/she wants to make an order.
38. A provider will only be able to create an advert related to its products.
39. No user or manager will be able to add any different social identities apart from the 4 above mentioned.
40. An administrator can ban any other actor but another admin.