

Acme Rendezvous

Acme, Inc. is a holding that encompasses many companies worldwide. One of them is Acme Rendezvous, Inc., which specialises in helping people organise rendezvouses.

The goal of this project is to develop a web information system to help Acme Rendezvous, Inc. manage their business. This document provides an informal description of their requirements; ask your lecturers for clarifications and details.

C-level requirements

Information requirements

1. The system must support two kinds of actors, namely: administrators and users. It must store the following information regarding them: their names, surnames, postal addresses (optional), phone numbers (optional), and email addresses.
2. Users can create rendezvouses. For each rendezvous, the system must store its name, its description, the moment when it's going to be organised, an optional picture, optional GPS co-ordinates, and the creator and the list of attendants.
3. The system must handle comments about the rendezvouses. For every comment the system must store the user who wrote it, the moment when it was written, the corresponding text, and an optional picture that is referenced by means of a URL.

Functional requirements

4. An actor who is not authenticated must be able to:
 1. Register to the system as a user.
 2. List the users of the system and navigate to their profiles, which include personal data and the list of rendezvouses that they've attended or are going to attend.
 3. List the rendezvouses in the system and navigate to the profiles of the corresponding creators and attendants.
5. An actor who is authenticated as a user must be able to:
 1. Do the same as an actor who is not authenticated, but register to the system.
 2. Create a rendezvous, which he's implicitly assumed to attend. Note that a user may edit his or her rendezvouses as long as they aren't saved them in final mode. Once a rendezvous is saved in final mode, it cannot be edited or deleted by the creator.
 3. Update or delete the rendezvouses that he or she's created. Deletion is virtual, that is: the information is not removed from the database, but the rendezvous cannot be updated. Deleted rendezvouses are flagged as such when they are displayed.
 4. RSVP a rendezvous or cancel it. "RSVP" is a French term that means "Réservez, s'il vous plaît"; it's commonly used in the anglo-saxon world to mean "I will attend this rendezvous"; it's pronounced as */ri:'serv/*, */ri:'serv'silvu'ple/*, or *ɑ:resvi:'pi:*. When a user RSVPs a rendezvous, he or she is assumed to attend it.
 5. List the rendezvouses that he or she's RSVPd.
 6. Comment on the rendezvouses that he or she has RSVPd.
6. An actor who is authenticated as an administrator must be able to:

1. Remove a comment that he or she thinks is inappropriate.
2. Remove a rendezvous that he or she thinks is inappropriate.
3. Display a dashboard with the following information:
 - The average and the standard deviation of rendezvous created per user.
 - The ratio of users who have ever created a rendezvous versus the users who have never created any rendezvous.
 - The average and the standard deviation of users per rendezvous.
 - The average and the standard deviation of rendezvous that are RSVPd per user.
 - The top-10 rendezvous in terms of users who have RSVPd them.

Non-functional requirements

7. The system must be available in English and Spanish.
8. 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 (unless you opt to earn an A⁺, in which case you're requested to use the HTTPS protocol where appropriate); b) the requirement in LSSI regarding informing the Chamber of Commerce about your internet domain.
9. The system must be as efficient as possible.
10. Rendezvous that have passed must be appropriately flagged in listings.
11. The "Terms and Conditions" document must make it explicit the reasons why a rendezvous may be considered inappropriate and thus can be removed from the system by an administrator.

B-level requirements

Information requirements

12. Rendezvous may have announcements. The system must record the moment when an announcement is made, plus a title and a description.
13. A rendezvous may be explicitly linked to similar ones by its creator. Note that such links may be added or removed even if the rendezvous is saved in final mode. They must be listed whenever a rendezvous is shown.
14. Some rendezvous may be flagged as "adult only", in which case every attempt to RSVP them by users who are under 18 must be prohibited. Such rendezvous must not be displayed unless the user who is browsing them is at least 18 year old. Obviously, they must not be shown to unauthenticated users.

Functional requirements

15. An actor who is not authenticated must be able to:
 1. List the announcements that are associated with each rendezvous.
 2. Navigate from a rendezvous to the rendezvous that are similar to it.
16. An actor who is authenticated as a user must be able to:
 3. Create an announcement regarding one of the rendezvous that he or she's created previously.
 4. Link one of the rendezvous that he or she's created to other similar rendezvous.

5. Display a stream of announcements that have been posted to the rendezvouses that he or she's RSVPd. The announcements must be listed chronologically in descending order.
17. An actor who is authenticated as an administrator must be able to:
 1. Remove an announcement that he or she thinks is inappropriate.
 2. Display a dashboard with the following information:
 - The average and the standard deviation of announcements per rendezvous.
 - The rendezvouses that whose number of announcements is above 75% the average number of announcements per rendezvous.
 - The rendezvouses that are linked to a number of rendezvouses that is greater than the average plus 10%.

A-level requirements

Information requirements

18. The creator of a rendezvous may associate a number of questions with it, each of which must be answered when a user RSVPs that rendezvous.
19. In addition to writing a comment from scratch, a user may reply to a comment.

Functional requirements

20. An actor who is not authenticated must be able to:
 1. Display information about the users who have RSVPd a rendezvous, which, in turn, must show their answers to the questions that the creator has registered.
21. An actor who is authenticated as a user must be able to:
 1. Manage the questions that are associated with a rendezvous that he or she's created previously.
 2. Answer the questions that are associated with a rendezvous that he or she's RSVP-ing now.
22. An actor who is authenticated as an administrator must be able to:
 1. Display a dashboard with the following information:
 - The average and the standard deviation of the number of questions per rendezvous.
 - The average and the standard deviation of the number of answers to the questions per rendezvous.
 - The average and the standard deviation of replies per comment.