

Acme Antenna 2.0

Acme Antenna, Inc. has contacted us to request some maintenance. This document provides an informal description of their new requirements; ask your lecturers for clarifications and details.

C-level requirements

Information requirements

1. There's a new kind of actor in the system: **handyworkers**. The system must record the antenna models in which each handyworker specialises.
2. Users may request maintenance of their antennas to handyworkers. For every **request**, the system must store the credit card to be charged, the moment when the request is made, a description of the request, and the corresponding antenna, which must be provided by the user; furthermore, it must store the moment when the service is done and a description of the results, which must be provided by the handyworker. Note that handyworkers must be allowed to display the information about the antennas for which they've got a request.

Functional requirements

3. An actor who is not authenticated must be able to:
 1. Register to the system as a handyworker.
 2. Browse the catalogue of handyworkers.
4. An actor who is authenticated as a user must be able to:
 1. Make a request for maintenance to a handyworker.
 2. List his or her already-serviced requests.
 3. List his or her not-yet-serviced requests.
5. An actor who is registered as a handyworker must be able to:
 1. Service a request.
 2. List the requests that he or she has already serviced.
 3. List the requests that he or she hasn't serviced, yet.
6. An actor who is authenticated as an administrator must be able to:
 1. Ban/unban another actor.
 2. Display a dashboard with the following information:
 - The average and the standard deviation of the number of requests per user.
 - The average ratio of serviced requests per user.
 - The average ratio of serviced requests per handyworker.

Non-functional requirements

7. The system should fill credit card forms automatically when a user requests a service. It must use the data last entered by a user. Storing that information in a cookie is recommended.

B-level requirements

Information requirements

8. There is a new kind of actors: agents. **Agents** can register banners to the system. For every **banner**, the system must store its picture, its target page, and a valid credit card.

Functional requirements

9. An actor who is not authenticated must be able to:
 1. Register to the system as an agent.
10. An actor who is authenticated as an agent must be able to:
 1. Register a banner to the system.
11. An actor who is authenticated as an administrator must be able to:
 1. Remove banners that he or she thinks are inappropriate.
 2. Display a dashboard with the following information:
 - The average number of banners per agent.
 - The top-3 agents in terms of number of banners.

Non-functional requirements

12. The system must display a random banner on every interaction. The banner must be shown above the main menu, next to Acme Antenna's logo.

A-level requirements

Information requirements

Intentionally blank.

Functional requirements

13. An actor who is authenticated as an administrator must be able to:
 1. Manage a list of taboo words.
 2. List the tutorials and comments that have taboo words.
 3. Remove a tutorial or a comment that contains taboo words.

Non-functional requirements

14. Acme Antenna, Inc. is franchising their business. They require the following data to customise their system for particular franchisees: the name of the franchisee, their logo, and a welcome message. This information must be displayed appropriately in the header of the pages and the welcome page. Administrators must be allowed to change the previous data at runtime. The system must be ready to be deployed to a pilot franchisee with the following data: Name of franchisee = "Crazy antenna", banner = "http://TinyURL.com/crazy-antenna ", English welcome message = "Cha wanna get crazy 'bout your rabbit ears?", Spanish welcome message = "¿Te quieres antenizar con nosotros?".
15. The list of **taboo words** must include "sex", "viagra", and "cialis" at deployment time.

A⁺-level requirements

Information requirements

Intentionally blank.

Functional requirements

Intentionally blank.

Non-functional requirements

16. The system must use the HTTP protocol where appropriate.
17. The system must be able to store the pictures in its database.