

Acme Santiago 2.0

Acme Santiago, NPO has contacted us to request some maintenance for their project. 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 actors: **agents**.
2. Agents register advertisements. For each **advertisement**, the system must store a title, a URL to a banner, a URL to a target page, a valid **credit card** (which must not expire during the current month), a number of days to be displayed, and the hike to which it is associated.

Functional requirements

3. An actor who is not authenticated must be able to:
 1. Register to the system as an agent.
4. An actor who is authenticated as an agent must be able to:
 2. Register an advertisement and associate it with a hike.
 3. List the hikes in which they have registered an advertisement.
 4. List the hikes in which they have not registered any advertisements.
5. An actor who is authenticated as an administrator must be able to:
 1. List the advertisements that contain taboo words in its title.
 2. Remove an advertisement that he or she thinks is inappropriate.
 3. Display a dashboard with the following information:
 - The ratio of routes that have at least one advertisement versus the routes that don't have any.
 - The ratio of advertisements that have taboo words.

Non-functional requirements

6. Whenever a hike is shown, the system must select one of the advertisements that are associated with it and show it as little intrusively, but effectively as possible.

B-level requirements

Information requirements

7. Users may instantiate routes into walks. For every **walk**, the system must store a title, some optional comments, the route that it instantiates, the day when the user walks each hike, some comments about it, and the inn in which he or she stays when he or she reaches the destination city.
8. Users may request Compostelas regarding their walks. A Compostela is a document that certifies that the user has completed a walk.

Functional requirements

9. An actor who is authenticated as a user must be able to:
 1. Instantiate a route as a walk.
 2. List his or her walks.
 3. Request a Compostela for a walk of his or hers.
10. An actor who is authenticated as an innkeeper must be able to:
 1. Certify that a user has stayed in an inn that he or she manages in the destination city of a particular hike on a particular day.
11. An actor who is authenticated as an administrator must be able to:
 1. List the requests for Compostelas that are awaiting a decision.
 2. Make a decision regarding a Compostela. The decision may be either to approve it (if the user has stayed in an inn at the end of every hike of the corresponding route) or deny it (otherwise). In cases in which a Compostela is denied, the administrator must provide a justification.
 3. Display a dashboard with the following information:
 - The ratio of Compostela requests that are awaiting a decision versus the total number of requests.
 - The ratio of Compostela requests that are approved versus the total number of Compostela requests that are rejected.

Non-functional requirements

12. The system must help administrators decide on whether a Compostela can be approved or not as follows: it must show the corresponding route as a listing with the origin and destination city of every hike in that route; next to the cities, it must display the inn where the user stayed, if any. If a user has completed a route, if he or she's stayed at an inn in the destination city of every hike, if he or she's walked the hikes one day after the other, then the system must recommend approving the Compostela; otherwise, it must recommend denying it.
13. When a Compostela is approved, the corresponding user must be able to display it in a friendly format that must be ready to be printed. The Compostela must include a header, a body, and a footer. The header must include a nice logo about El Camino de Santiago, the name of the user, and the date when it was approved. The body must include information about the user and his or her walk; it must include the name and the badges of the inns in which the user stayed. The footer must include information about El Camino de Santiago and Acme Santiago, NPO.
14. The routes that a user has instantiated as walks must be displayed as a part of their profiles as long as they requested and got a Compostela for them.

A-level requirements

Information requirements

15. Innkeepers can register the amenities that they offer in their inns. For every **amenity** the system must record its name, a description, and some optional pictures.

Functional requirements

16. An actor who can display an inn must be able to:
 1. Display the amenities that it offers.
17. An actor who is authenticated as an innkeeper must be able to:
 1. Manage the amenities that are offered by the inns that he or she manages, which includes creating them, editing them, deleting them, and listing them.

Non-functional requirements

Intentionally blank.

A⁺-level requirements

Information requirements

Intentionally blank.

Functional requirements

Intentionally blank.

Non-functional requirements

18. The system must use the HTTPS protocol where appropriate.
19. A user who gets a Compostela approved must be able to download it in PDF format.