Acme Shout

Acme, Inc. is a holding that encompasses many companies worldwide, including Acme Shout, Inc. Their business consists in providing people with a platform where they can shout.

The goal of this project is to develop a web information system that Acme Shout, Inc. can use to run their business. This document provides an informal requirement specification. Ask your lecturers for clarifications and details, if necessary.

C-level requirements

Information requirements

1. The actors of the system are administrators and customers, who have user accounts with the following information: username, password, and a list of authorities, which can be either ADMIN or CUSTOMER. The default user accounts must be {username: "admin", password: "admin", authorities: ["ADMIN"]}, {username: "customer", password: "customer", authorities: ["CUSTOMER"]}, and {username: "super", password: "super", authorities: ["ADMIN", "CUSTOMER"]}.

Functional requirements

2. An actor who is not authenticated must be able to:
    1. Log in to the system using a default user account.
3. An actor who is authenticated must be able to:
    1. Display three random inspiring quotes.
    2. Use an arithmetic a calculator.
    3. Raise an exception.
    4. Log out from the system.

Non-functional requirements

4. The system must be available in English and Spanish. The data themselves are not required to be available in several languages, only the messages that the system displays.
5. Passwords must not be handled in plain text, but hashed using the MD5 algorithm.

B-level requirements

Information requirements

6. Customers can shout. For every shout, the system must store the username of the actor who created it, a mandatory link, and a mandatory piece of text. The customer who creates a shout may decide on whether to keep his or her username or change it to hide his or her identity.

Functional requirements

7. An actor who is authenticated as a customer must be able to:
    1. Display a listing with all of the shouts in the system.

2. Write a new shout and save it to the database.

Non-functional requirements

Intentionally blank.

A-level requirements

Information requirements

Intentionally blank.

Functional requirements

8. An actor who is authenticated as an administrator must be able to:
    1. Display a dashboard with the following indicators:
        - Count of all shouts.
        - Count of short shouts (i.e., shouts that are no longer than 25 characters).
        - Count of long shouts (i.e., shouts that are longer than 25 characters).

Non-functional requirements

Intentionally blank.

A⁺-level requirements

Information requirements

Intentionally blank.

Functional requirements

Intentionally blank.

Non-functional requirements

9. Administrators must be able to display their dashboards using a vertical bar chart. HINT: there's a component called Chart.js that might help in this task.

A⁺⁺-level requirements

Information requirements

Intentionally blank.

Functional requirements

Intentionally blank.

Non-functional requirements

10. The actions in the menus, the URLs to request the actions, and the names of the views must be changed so that they are more intuitive than in the sample template project.