Acme Chorbies 2.0

Acme Chorbies, Inc. is requesting maintenance regarding the previous version of their project.

They are happy with the project that we released and they are now planning on monetising their investment. They wish to explore two paths: a) promoting events and charging their managers a fee per event; b) charging chorbies a monthly fee. They just want to do a few experiments; managers and chorbies must not be aware of the simulations.

This document provides an informal description of their new requirements; ask your lecturers for clarifications and details.

C-level requirements

Information requirements
- There's a new kind of actor in the system: managers. For every manager, the system must store the company that he or she represents, its VAT number, and a valid credit card.
- Managers organise events, for which the system must store the following data: a title, the moment when it'll be organised, a description, a picture, and the number of seats offered.

Functional requirements
- A user who is not authenticated must be able to:
    o Browse the listing of events that are going to be organised in less than one month and have seats available.
    o Browse a listing that includes every event that was registered in the system. Past events must be greyed out; events that are going to be organised in less than one month and have seats available must also be somewhat highlighted; the rest of events must be displayed normally.
- An actor who is authenticated as a manager must be able to:
    o Manage the events that he or she organises, which includes listing, registering, modifying, and deleting them. In order to register a new event, he must have registered a valid credit card that must not expire in less than one day. Every time he or she registers an event, the system will simulate that he or she's charged a 1.00€ fee.
- An actor who is authenticated as a chorbi must be able to:
    o Register to an event as long as there are enough seats available.
    o Un-register from an event to which he or she's registered.
    o Browse the list of events to which he or she's registered.
- An actor who is authenticated as an administrator must be able to:
    o Change the fee that is charged to managers and chorbies. (Note that they need not be the same.)
    o Run a process to update the total monthly fees that the chorbies would have to pay. Recall that chorbies must not be aware of the simulation.
    o Display a dashboard with the following information:
        ▪ A listing of managers sorted by the number of events that they organise.

- A listing of managers that includes the amount that they due in fees.
- A listing of chorbies sorted by the number of events to which they have registered.
- A listing of chorbies that includes the amount that they due in fees.

Non-functional requirements

- Every change that is carried out to an event must be automatically chirped to the chorbies who have registered to that event. The author of the chirp must be the manager who organises the event. Note that an event may be deleted, even if there are registered chorbies: in such cases, they get chirped and unregistered immediately.
- Wherever a listing of events is shown, it must be possible to sort the corresponding events by the number of seats available.

B-level requirements

Information requirements

- When a chorbi likes another chorbi, he or she should be able to indicate a number of stars in range zero – three.

Functional requirements

- An actor who is authenticated as an administrator must be able to:
  - Display a dashboard with the following information:
    - The minimum, the maximum, and the average number of stars per chorbi.
    - The list of chorbies, sorted by the average number of stars that they've got.

A-level requirements

Information requirements

Intentionally blank.

Functional requirements

- An actor who is authenticated as a manager must be able to:
  - Broadcast a chirp to the chorbies who have registered to any of the events that he or she manages.
- An actor who is authenticated as a chorbi must be able to:
  - Browse the catalogue of chorbies who have liked him or her as long as he or she has registered a valid credit card. If he or she's not register a valid card, then the system must ask him or her to do so; the system must inform the chorbies that their credit cards will not be charged.

Non-functional requirements

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