D02 – Simple reporting

# Identification data

\_G3\_ \_B\_ <https://github.com/rafliefue/Acme-Jobs>  
Group Level GitHub repository   
 (Use a different repository for each deliverable. Make sure that “mary-design-testing” can access it.)

Seville, 06/11/2019  
Place, date

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# Responsibility statements

[ ] I have taken into account the guidelines provided in the lectures and document “On your deliverables”, which are available at the USE’s e-learning platform.

[ ] I understand that I must have a contingency plan and that submitting my deliverable very close to the deadline is likely to result in disaster.

[ ] I am an author of this deliverable. I have not cheated in any way.

[ ] I have collaborated with my partners on producing this deliverable; in other words, neither have I ridden their coattails nor gobbled them up.

[ ] I have learnt from working on this deliverable, so that I can pass my control check.

[ ] I understand that my deliverable will be considered failed if I fail to meet any of its requirements, if I fail to submit it by the deadline, or if I do not deliver a filled copy of this form.

# Deliverable

## Item 1: management

* Produce a “README.docx” file in which you report on the following topics (please, note that this file is expected to be empty in most cases):
  + Incidences regarding your workgroup, if any.
  + Interpretations regarding the requirements, if any.
  + Corrections made to the features in the previous deliverables, if any.
* Produce a “Role-Assignment.docx” file in which you provide a recent photo, the full name, the corporate email account, the role played, and the tasks assigned to every member of your workgroup according to their roles.

## Item 2: project

* Produce an Eclipse/Maven project that satisfies the requirements in this deliverable at the desired level. It must include an updated version of file “model.uxf”.

## Item 3: deployment

* Produce the deployment artefacts of your project.
* If applicable: produce a “CREDENTIALS.TXT” document in which you provide the URL and the credentials required to have access to your CleverCloud deployment. Please, recall that every deliverable must result in a different deployment since they are evaluated independently from each other.

# Requirements

## Level C

### Information requirements

* The system must store announcements, each of which consists of a title, a creation moment, an optional link to additional information, and a piece of text that describes them.
* The system must store requests, each of which consists of a title, a creation moment, a deadline, a piece of text that describes them, and a reward. Every request must have a unique ticker that must match the following pattern “RXXXX-99999”, where “R” is letter “R”, “X” denotes an arbitrary letter, and “9” denotes an arbitrary digit.
* The system must store offers, each of which consists of a title, a creation moment, a deadline, a piece of text that describes it, and a range of money for the requested reward. Every offer must have a unique ticker that must match the following pattern “OXXXX-99999”, where “O” is letter “O”, “X” denotes an arbitrary letter and “9” denotes an arbitrary digit.
* The system must store company records, each of which consists of the name of a company, the sector in which it works, the name of its CEO, a description of its activities, a web site, a contact phone, a contact email, and an indication on whether it’s been incorporated or not. (An incorporated company typically adds the “Inc.” suffix to their name, e.g., “Acme, Inc.”, whereas non-incorporated companies typically add the “LLC” suffix to their name, e.g., “Mikasa, LLC”). Some company records may have a number of stars in range zero (very bad) up to five (excellent). Phone number must adhere to the following pattern “+999 (9999) 999999”, where “+999” denotes an optional international prefix in range “+1” up to “+999”, “(9999)” denotes an optional area code in range “(0)” up to “(9999)”, and “999999” denotes a local phone number with a minimum of six digits and a maximum of ten digits.
* The system must store investor records, each of which consists of the name of an investor, the sector in which he or she works, and an investing statement. Some investor records may have a number of stars in range zero (very bad) up to five (excellent).
* The system must store challenges, each of which consists of a title, a deadline (which must be in future when it is registered), a description, and pairs goal/reward at the gold, silver, and bronze levels.

### Functional requirements

* An anonymous principal must be able to:
  + List and show the announcements (those that are more than one month old must be omitted).
  + List and show the company records.
  + List and show the investor records.
* An authenticated principal must be able to:
  + List and show the same entities as an anonymous principal.
  + List and show the active requests.
  + List and show the active offers.
  + List and show the active challenges.
* An administrator principal must be able to:
  + List and show all of the announcements (independently from how old they are).

### Non-functional requirements

* The messages that the system shows must be available in both English and Spanish. Data like moments and money amounts must be internationalised when they are entered or shown. Textual data are not expected to be internationalised.
* Multi-media resources are not required to be stored by the system, but their links to external storage systems like Tumblr.com, Dropbox.com, YouTube.com, and the like.
* Tickers are not required to be generated automatically by the system.
* We can safely assume that the system will not have any customers outside the Euro zone, so all money amounts can be assumed to be expressed in Euro. (Enforcing this constraint *cannot* be done in this lesson. This problem will be dealt with in the following lesson.)

## Level B

### Information requirements

* The system must store the following customisation parameters: a list of spam words and a default spam threshold. The default catalogue of spam words includes: “sex”, “hard core”, “viagra”, “cialis”, “nigeria", “you’ve won”, “million dollar” and their corresponding Spanish translations, irrespective of their case. The default spam threshold is 1.00%

### Functional requirements

* An administrator principal must be able to:
  + Display the customisation parameters of the system.

### Non-functional requirements

Intentionally blank.

## Level A

### Information requirements

* The system must store banners, which consists of a picture, a slogan, and a target URL. There are two kinds of banners: commercial banners, which have a mandatory credit card, and non-commercial banners, which have an optional jingle.

### Functional requirements

* An anonymous principal must be able to:
  + List and show the top company records, which are the ones with five stars.
  + List and show the top investor records, which are the ones with five stars.
* An administrator principal must be able to:
  + Display a listing with the following indicators:
    - Total number of announcements.
    - Total number of company records.
    - Total number of investor records.
    - Minimum, maximum, average, and standard deviation of the rewards of the active requests.
    - Minimum, maximum, average, and standard deviation of the rewards of the active offers.
  + Display a chart with the following indicators:
    - Total number of companies grouped by sector.
    - Total number of investors grouped by sector.

### Non-functional requirements

* The system must be deployed to CleverCloud.