D05 – Complex edition

# Identification data

\_\_\_\_\_ \_A\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_   
Group Level GitHub repository   
 (Use a different repository for each deliverable. Make sure that “mary-design-testing” can access it.)

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Place, date

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
Student #1: Full name, roles, small picture, and signature

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
Student #3: Full name, roles, small picture, and signature

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
Student #5: Full name, roles, small picture, and signature

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
Student #2: Full name, roles, small picture, and signature

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
Student #4: Full name, roles, small picture, and signature

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
Student #6: Full name, roles, small picture, and signature

# Responsibility statements

[X] 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.

[X] 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.

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

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

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

[X] 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 roles 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

* Intentionally blank.

### Functional requirements

* An authenticated principal must be able to:
  + Become an employer.
  + Become a worker.
* An employer principal must be able to:
  + Edit his or her jobs, which includes creating, updating, and deleting them. A job cannot be saved in final mode unless it has a descriptor, the duties sum up to 100% the weekly workload, and it’s not considered spam. A job can be modified as long as it’s not saved in final mode. A job can be deleted as long as no worker has applied for it.
  + List the applications to his or her jobs *grouped by reference, status, or creation moment*. (Will you panic on reading the previous requirement? Please, do not)
  + Accept or reject the applications to his or her jobs. Accepted applications need not be justified, but rejected applications must have a mandatory justification.
* A worker principal must be able to:
  + Apply for a job as long as it’s been published and its deadline hasn’t elapsed.

### Non-functional requirements

* A piece of text is considered spam if it contains a minimum number of spam words. Both the threshold and the spam words are provided by the system configuration.

## Level B

### Information requirements

* Intentionally blank.

### Functional requirements

* An authenticated principal must be able to:
  + Request to become an auditor. An administrator of the system must accept the request so that an authenticated principal can become an auditor.
  + Create a new message thread and manage the users who can get involved. Managing the users means listing, adding, or deleting them.
  + Post messages to the threads in which he or she’s involved. Note that the messages cannot be updated or deleted, so the system must include a confirmation checkbox. The system must prevent posting spam messages.
* An auditor principal must be able to:
  + Write an audit record for a job. Audit records can be saved in draft mode; they aren’t shown publicly until they are saved in final mode.

### Non-functional requirements

* Intentionally blank.

## Level A

### Information requirements

* Intentionally blank.

### Functional requirements

* An authenticated principal must be able to:
  + Become a sponsor.
* A sponsor principal must be able to:
  + Edit his or banners, which includes creating, updating, and deleting them. The system must prevent a banner from being created or updated if it’s considered spam.
* An administrator principal must be able to:
  + Display a chart with the following indicators:
    - A time series with the number of pending applications per day during the last four weeks.
    - A time series with the number of accepted applications per day during the last four weeks.
    - A time series with the number of rejected applications per day during the last four weeks.

### Non-functional requirements

* The system must be deployed to CleverCloud.