Requirements of Acme Jobs

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## Changelog

25.2.0 This is the first public version of this document.

## Abstract

Acme Jobs, Inc. is a company that specialises in helping employers publish jobs and workers apply to them. The goal of this project is to develop a WIS that can help Acme Jobs, Inc. carry their business activities out.

# Information requirements

## User accounts and realms

1. The following pre-defined roles must be supported and have pre-defined user accounts: administrator, any, and authenticated. The system must store the following profile data regarding all roles: a username (between 5 and 60 characters), a password (between 5 and 60 characters), an enablement status, name plus surname (shorter than 76 characters), an email, and a phone number (in international format).

X

1. Employers publish jobs. The system must store the following data about employers: the system must store the following data about employers: an area (shorter than 76 characters), a sector (shorter than 76 characters), and a valid credit card number (no expiry date of CVC is required).

X

1. Workers apply for jobs. The system must store the following data about workers: list of qualifications (shorter than 256 characters), list of skills (shorter than 256 characters), and a valid credit card (no expiry date of CVC is required).

X

1. There is a squad called “customer” that includes employers and workers.

X

## Jobs and applications

1. A job is an offer in which an employer invites workers to join a company to perform a number of duties. The system must store the following data about jobs: a ticker (unique, pattern “^[\w\-]{5,15}$”), a title (shorter than 76 characters), a deadline (which must be at least five days ahead the moment when the job is published), a salary (no restrictions should be applied on the currency used), a score (positive percentage), a description (shorter than 256 characters), and, optionally, a link for more info. A job is said to be available as long as it’s been published and its deadline has not elapsed.

X

1. The duties of a job describe specific tasks to perform regarding that job. The system must store the following data about duties: a title (shorter than 76 characters), a description (shorter than 256 characters), a workload (percentage), and, optionally, a link for more info. For a job to be published, its duties must sum up to a total workload of 100%.

X

1. An application is a request by a worker about a job. The system must store the following data about applications: the moment when it is submitted, a ticker (unique, autogenerated, in UUID format), a status (which can be either pending, rejected, or accepted), a statement (shorter than 256 characters), a list of qualifications (shorter than 255 characters), a list of skills (shorter than 256 characters).

X

## Companies

1. A company is an organisation that offers jobs by means of their employer proxies. The system must store the following data regarding companies: a name (shorter than 76 characters), a description (shorter than 76 characters), and, optionally, a link for more info.

X

## Shouts and whines

1. The users of the system can post shouts anonymously. The system must store the following data about shouts: the moment when it was posted, an author (shorter than 76 characters, it’s not required to be a username or anything else that can identify the user who posted it), a piece of text (shorter than 256 characters), and, optionally, a link for further info.

X

1. Customers can post whines. The system must store the following data regarding whines: the moment when it was posted, a header (shorter than 76 characters), a description (shorter than 256 characters), and the resulting redress (shorter than 256 characters), which must be written by an administrator of the system.

X

## Announcements and advertisements

1. Administrators can post announcements. The system must store the following data about announcements: the moment when it was posted, a title (shorter than 76 characters), a status (which can be either info, warning, or important), a piece of text (shorter than 256 characters), and, optionally, a link for more info.

X

1. The system must display advertisements to promote non-profit organisations. The system must store the following data about advertisements: a slogan (shorter than 76 characters), a picture (must be stored in a public site), and a target landing page.

X

# Functional requirements

## Operations by any principals

1. Operations by any principals on jobs:

* List theprojectsthat have been published whose deadline is not elapsed.
* Show the details of the projects that they can list.

X

1. Operations by any principals on shouts:

* List the shouts that have been posted previously.
* Post a new shout.

X

1. Operations by any principals on the system:

* Sign-up to the system.
* Sign-in to the system.
* Sign-out from the system.

X

## Operations by authenticated principals

1. Operations by authenticated principals on announcements:

* List the announcements that are not older than 30 days.
* Show the details of the announcements that they can list.

X

1. Operations by authenticated principals on the system:

* Become an employer or a worker.
* Perform a money exchange. The principal must provide a source amount of money and a target currency. The system must respond with the moment of the last available exchange rate and the corresponding exchange.

X

## Operations by administrators

1. Operations by administrators on announcements:

* List all of the announcements in the system.
* Create a new announcement. This operation requires additional confirmation.

X

1. Operations by administrators on companies:

* List the companies that have been registered in the system.
* Create, update, or delete a company. A company can be deleted as long as it’s not involved in any jobs.

X

1. Operations by administrators on whines:

* List the whines in the system.
* Answer a whine by providing a redress. This operation requires additional confirmation.

X

1. Operations by administrators on the system:

* Show a dashboard with the following data: average number of jobs per employer, average number of applications per worker, average number of applications per employer, counter of applications grouped by status.
* Populate the database with initial data.
* Populate the database with sample data.
* Shut the system down.

X

## Operations by employers

1. Operations by employers on jobs:

* List the jobs that they have created.
* Show the details of the jobs that they can list.
* Create, publish, update, and delete a job. For a job to be published, its deadline must be at least five days in future and its duties must sum up to 100.00%. For a job to be updated or deleted, it must not be published.

X

1. Operations by employers on duties:

* List the duties that they have created on a per job basis.
* Show the details of the duties that they can list.
* Create, update, and delete a duty. For a duty to be updated or deleted, it must not be part of a job that is already published.

X

1. Operations by employers on applications:

* List the applications submitted to their jobs.
* Show the details of the applications that they can list.
* Decide on whether an application must be accepted, rejected, or kept pending. Only applications that are pending can be accepted or rejected.

X

## Operations by workers

1. Operations by workers on jobs:

* List the jobs that are available.
* Show the details of the jobs that they can list.
* Apply to any of jobs that they can show. No limit on the number of applications that that a worker may submit for a particular job must be imposed.

X

1. Operations by workers on applications:

* List their own applications.
* Show the details of the applications that they can list.

X

## Operations by customers

1. Operations by customers on whines:

* List his or her own whines.
* Post a new whine.

X

# Non-functional requirements

1. The system must be internationalised so that the user can select either English or Spanish for the user interface.

X

1. Money amounts, Booleans, and moments must be internationalised when they are shown. Other kinds of data are not expected to be internationalised.

​  X

# Testing requirements

1. Produced assorted sample data to test the system.

​  X

1. Produce as a complete test suite as possible for Requirement #22.

​

# Managerial requirements

1. Instantiate and customise the appropriate starter project so that you can work on this project. Make sure that the name of your project folder, maven configuration (pom.xml), and database is “Acme-Jobs-〈yy〉-〈l〉-〈s〉”, where “〈yy〉” denotes the current year, “〈l〉” the current lesson, and “〈s〉” is a serial number that is restarted with every lesson.

X

1. The initial data to cold start the project must include only an administrator account with credentials “administrator/administrator”. Make sure that you have followed the instructions in the “On Your Deliverables” document to package and deliver your work. This requirement must be fulfilled in this and every other group or individual deliverable for it to be considered satisfied.

X

1. Produce a UML domain model regarding the information requirements.

X

1. Provide a link to your planning dashboard in GitHub to review the tasks, their current status, and your schedule.