

DP2 2023-2024  
Analysis Report

# Acme Software Factory



Repository: <https://github.com/rafcasceb/Acme-SF-D03>

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## Content Table

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## Abstract

In this document, an analysis of the different requirements developed regarding the third deliverable will be analyzed.

## Revision Table

Date	Version	Description of the changes	Deliverable
25/04/2024	1.0	<ul style="list-style-type: none"><li>Initial version of the document</li><li>Content written.</li></ul>	3
24/04/2024	1.1	<ul style="list-style-type: none"><li>Content modification.</li></ul>	3
29/04/2024	1.2	<ul style="list-style-type: none"><li>Format fixing</li></ul>	3
21/05/2024	1.3	<ul style="list-style-type: none"><li>Content modification</li><li>Minor format fixing</li></ul>	3

## Introduction

This document will include a brief analysis of the project and the group requirements related to the deliverable D03. The structure of it has been determined following the guidelines provided in the Virtual Learning platform, in the document called “08 Annexes”.

As part of the work to be done regarding “Acme Software Factory”, the individual work consists in the implementation of several features regarding the entities created in the second deliverable, that will be used by users with the developer role, as well as additional features that will be used by any principal role.

In the following section the requirements will be discussed, and finally, a conclusion will sum up the document.

## Contents

### Mandatory requirements

#### Functional requirements.

Operations by any principal on **claims**:

- List the **claims** and show their details.
- Publish a **claim**. This operation requires confirmation because **claims** cannot be updated or deleted.

No conflict was found.

Operations by any principals on **banners**:

- Display any of them randomly, as long as its display period is active; the banners must be shown in every page as little intrusively as possible.

No conflict was found.

Operations by administrators on **banners**:

- List the banners and show their details.
- Create, update, or delete a banner.

No conflict was found.

## Non-functional requirements.

Moments, money amounts, and Booleans must be internationalised when they are shown.

Other kinds of data are not expected to be internationalised. This requirement must be fulfilled in this and every subsequent group or individual deliverable for it to be considered valid.

This requirement was analyzed as to implement some automatization to internationalize the aspects indicated. However, in follow-up sessions, it was cleared that the framework did already implement internationalization for Moments and Money amounts, and that the implementation for Boolean values were not something inside our current scope. The final indications can be found [here](#).

## Supplementary requirements

### Functional requirements.

Operations by administrators on the system configuration:

- Show the system configuration.
- Update the system configuration.

No conflict was found.

Operations by authenticated principals on **objectives**:

- List the **objectives** and show their details.

No conflict was found.

Operations by administrators on **objectives**:

- Post an **objective**. This operation requires confirmation because bulletins cannot be updated or deleted.

No conflict was found.

Operations by authenticated principals on **risks**:

- List the **risks** in the system and show their details.

No conflict was found.



Operations by administrators on **risks**:

- List the **risks** in the system and show their details.
- Post, update, or delete a **risk**.

After some analysis of this requirement, and the requirement of the second deliverable, it was started that the identification date must be an input date, not an automatic one, as the date of the identification of a risk can be different that the one of the registrations in the system. Moreover, it was necessary to include validations for the uniqueness of the reference, the date is after the minimum date and that the probability belongs to the range [0,1]

Operations by authenticated principals on **notices**:

- List the **notices** that are not older than one month and show their details.
- Post a **notice**. This operation requires confirmation because **notices** cannot be updated or deleted.

No conflict was found.

Operations by **administrators** on **administrator** dashboards:

- Show their **administrator** dashboards

No conflict was found.

### Non-functional requirements.

The system must show money amounts as they are entered by the users, but also their corresponding money exchanges according to the system currency if their known exchange ratios are recent. It is the students' responsibility to find the appropriate exchange-rate service; no implicit or explicit liabilities shall be covered by the University of Seville or their individual affiliates if the students hire pay-per-use services! This requirement must be fulfilled in this and every subsequent group or individual deliverable for it to be considered valid.

This requirement was misunderstood at first, implementing a page that allows the user to perform a currency change, instead of the exchange of the different money quantities in every part of the system that was applicable to. This was solved, but it was only implemented in the *show* features only for clarity purposes.

The system must prevent the principals from storing any data that can be considered spam. A piece of text is considered spam if the number of spam terms exceeds a predefined spam threshold. The default list of spam terms includes the following ones: "sex", "viagra", "cialis", "one million", "you've won", "nigeria", and their corresponding translations into the languages considered for internationalisation; the default spam threshold is 10%. Note that the previous default values can be changed at will by the administrators. Realise that a term must be considered spam irrespective of its case and the blanks in between its words; for instance, "one\_million" is a spam term that matches "one\_million", "ONE\_MILLION", "OnE\_MiLLiOn", or "One\_ Million"; it doesn't match "One\_Millionaire", "One\_or\_two\_millions", or "One\_sexy\_million", though. The spam detector must be reusable across different projects; that is: it must be implemented as an independent project that must be packaged into a reusable dependency. Do not forget to deliver your spam detector project so that it can also be evaluated or, otherwise, this requirement shall not be considered valid. This requirement must be fulfilled in this and every subsequent group or individual deliverable for it to be considered valid.

This requirement was a little misunderstood at first. We interpreted that the project must be purely independent, and we developed the project as that. However, it was cleared by the lecturer that the spam\_detector project must be an independent Maven project.

### Managerial requirements

Produce an analysis report.

No conflict was found.

Produce a lint report.

We were supposed to see the content of this report in class. However, as the schedule had changed, we were not sure of the situation regarding it. It was cleared in [this post](#) that the requirement was going to be taking into account in the next deliverable.

Produce a planning and progress report.

No conflict was found.

## Conclusions

The requirements involving this deliverable resulted in some conflicts that were successfully solved via the forum and the follow-up sessions without any further trouble.

## Bibliography

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