

DP2 2023-2024  
Analysis report D03

# Acme Software Factory



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

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GROUP C1.049

Version 1.0

13-04-24

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## Executive summary

This report will offer a detailed description of those individual task of the third delivery which are deemed in need of further analysis. As stated in the Annexes document, not all tasks are worthy of such distinction; however, the most complex ones may need it to provide an extra clarification to the client and those stakeholders with limited knowledge on the specific matter.

We will follow a precise but accessible approach aiming to promote comprehension and assure a good final product.

## Revision Table

| Date       | Version | Description of the changes   | Sprint |
|------------|---------|--|--------|
| 13/04/2024 | 1.0     | <ul style="list-style-type: none"><li>• Executive summary</li><li>• Introduction</li><li>• Content</li><li>• Conclusion</li><li>• Bibliography</li></ul> | 3      |

## Introduction

The second delivery comprises eight tasks in total, with four categorized as mandatory and four as optional. Four of these entail coding entities and forms, one is for populating with sample data and the subsequent tasks involve writing reports and a UML diagram.

The document's structure will present for each delivery first the mandatory tasks followed by the optional ones. Each task will be identified by its numerical identifier, accompanied by its official description, and a comprehensive analysis, if deemed necessary, as stated in the Annexes document.

## Contents

### Mandatory task D03-6:

“Operations by **managers** on **projects**:

- List the **projects** that they have created.
- Show the details of their **projects**.
- Create, update, or delete their **projects**. **Projects** can be updated or deleted as long as they have not been published. For a **project** to be published, it must have at least one **user story**, and all its **user stories** must have been published. Moreover, it must not have any fatal errors.”

First thing that comes clear is that the entity User story must have an attribute published, as the one in Projects and other entities of our project.

Secondly, the role Manager is not going to be translated into Spanish for it is a quite common term in the domain and to avoid confusion with the role Administrator.

Thirdly, I have represented Booleans as check boxes in the show pages, but we cannot do it in the listing, so it remains as text.

Fourthly, we have decided not to represent the published in the form and it will be evident (beyond the term appearing in the list) by the fact that the button publish will not appear if it is already published.

Fifthly, deleting a project must delete the intermediate table between project and user stories but not the user stories for they must be associated to other projects. A project with other child dependencies, such as Training Module instances, cannot be deleted. This was consulted with the professor and therefore, the client.

Lastly, since in the requirement D03-19 it is explicitly stated to show the projects “excepting user stories” and the relation between Project and User Story must be useful somewhere, I get to the conclusion that in this requirement we must show the user stories of a manager’s projects. I have decided to include a whole listing page for this.

### Mandatory task D03-07:

“Operations by **managers** on **user stories**:

- List the **user stories** in their **projects**.
- Show the details of their **user stories**.
- Create and publish a **user story**.
- Update or delete a **user story** as long as it is not published.”

We have implemented an option to see all user stories and then in each project another option to see the user stories of that project only, as we previously stated. Unlike with projects, for which it is repeatedly said, it is never stated that a user story must be linked to a project to be published.

To make the relationship between Project and User Story useful, I have added two options in the form of a user story: link and unlink a project to that user story. The reason why I have decided to link a Project to a User Story and not vice versa is that, unlike User Stories, Projects have a unique non-numerical identifier, which is the code attribute.

We can only link or unlink projects and user stories if the projects are unpublished projects, for it is repeatedly stated that the properties of a project cannot be updated if published.

#### Mandatory task D03-8:

“Operations by **managers** on **manager** dashboards:

- Show their **manager** dashboards.”

User story priorities will be left as Must, Should, Could and Won't for they are quite common standards in the domain.

One of the queries had to return a map object, so I executed the query in two parts, one using the JPA query annotation and the other mapping it to return the desired map.

#### Extra task D03-17:

“Operations by anonymous principals on user accounts:

- Sign up to the system and become a **manager**.”

Due to its simplicity, it isn't deemed necessary to further analyse it.

#### Extra task D03-18:

“Operations by **managers** on user accounts:

- Update their profiles.”

Due to its simplicity, it isn't deemed necessary to further analyse it.

Extra task D03-19:

“Operations by any principals on **projects**:

- List the **projects** in the system that are published.
- Show the details of the **projects** that they can list (excepting their **user stories**).”

There is no need to show the attributes published and fatalErrorPresent, for they are only of interest for managers. They will always be true and false respectively if it appears in the section for authenticated users.

Extra task D03-20:

“Produce an analysis report.”

Due to its simplicity, it isn’t deemed necessary to further analyse it.

Extra task D03-21:

“Produce a planning and progress report.”

Due to its simplicity, it isn’t deemed necessary to further analyse it.

Extra task D03-22:

“Produce a lint report.”

Due to its simplicity, it isn’t deemed necessary to further analyse it.



## Conclusions

For the delivery number three, I have found some aspects in need of further analysis, mainly to comment about important decisions that had to be taken, more than contradictions or ambiguities.

## Bibliography

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