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ACME-SF

G1.007

**Analysis report**

26/05/2024



# Cover

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| --- | --- |
| **Repository:** <https://github.com/DP2-C1-07/Acme-SF-D04.git> | |
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# Executive summary

This document is a lint report. Its purpose is to show the bad smells which may hide potential bugs in the project, if there is any. Otherwise, the “content” section will show the text “intentionally blank”.

# Revision table

|  |  |  |
| --- | --- | --- |
| Number | Date(dd/mm/yyyy) | Description |
| 1.0 | 26/05/2024 | Document done in its entirety, reviewed by peers. No major errors were found. |

# Introduction

The purpose of this document is to provide a detailed lint report of the project “Acme-SF-D04”, for the subject “Design and Testing 2”. After generating an analysis after launching the SonarLint Eclipse plugin, a list of bad smells was shown, and those related with the work implemented by us were analyzed.

This document has an executive summary, a revision table where there are versioned records, this introduction, the main content, and the conclusions of the report.

# Contents

After launching the SonarLint Eclipse plugin, and opening the “SonarLint Report tab”, we can see several categories of bad smells that will be explained:



This kind of error refers to a mere repetition of some properties in that service. This is because there are many validations on the entity, and in each one those properties are checked. This is not a problem per se and does not imply any bugs.



This kind of error means that there are some properties in pascal case, that have been used for naming constants in the service and reuse them along it. Again, it is a matter of style and does not entail any danger.

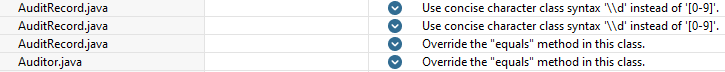
Tabla

Descripción generada automáticamente

This kind of error means that in many different services there are validations such as the following: “assert object != null”, in order to check if an object is null. This is not a security risk either, since the really exhaustive validation is performed through the methods “validate” and also “authorize”.



The first one is not critical either, since the method has been thoroughly tested by the developers. The second one is because 2 different variables have been declared in the same line, but logically this is trivial.



These ones mean that in a regular expressions, “[0-9]” have been used instead of “\\d”, but this decision was taken because it was more descriptive to the rest of members of the team, and the consequences are nonexistent. Also, the methods “equals” are not overridden since the implementation of the framework does it for us.



This bad smell is also trivial, because using lambda functions is as valid as using method references.



This bad smell is also irrelevant, because in order to do a counter Map, both types of object are valid.



Finally, this bad smell is caused by the property “draft” not being a static final constant, but a public property. The decision of implementing it like this was based on the simplicity that it provided. Again, all the entities and methods were this property is used have been thoroughly tested.

# Conclusions

As we have seen, the bad smells only refers to programming-style related issues, therefore, none of them may hide potential bugs or errors in the project.

# Bibliography

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