

26 de abril de 2024

LINT report

**Repository: https://github.com/C1-010/Acme-SF-D03**

Group: C1.010

García Rivero, Andrés - [andgarriv@alum.us.es](mailto:andgarriv@alum.us.es)

López Cubiles, Antonio José - [antlopcub@alum.us.es](mailto:antlopcub@alum.us.es)

Nieto Vicioso, Javier - [javnievic@alum.us.es](mailto:javnievic@alum.us.es)

Díaz Ordoñez, Pablo -  [pabdiaord@alum.us.es](mailto:%20pabdiaord@alum.us.es)

Sevillano Barea, Alejandro - [alesevbar@alum.us.es](mailto:alesevbar@alum.us.es)

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# 1. Executive Summary

In this report we will check each bad smell detected by our Sonar Lint analyzer in our project, Acme-SF. The bad smells that are considered innocuous will only be explained, while the ones that hide a real problem or error behind will be addressed and fixed.

# 2. Revision Table

|  |  |  |
| --- | --- | --- |
| Revision number | Date | Description |
| 1 | 25/04/2024 | Initial bad smell revision |
| 2 |  |  |

# 3. Introduction

In this document, a table showing the source of the bad smells, their Sonar Lint description, their type by color (blue, yellow or red) and a brief evaluation for the blue and yellow smells. Red Bad smells will be analyzed in under the table.

# 4. Contents

|  |  |  |  |
| --- | --- | --- | --- |
| Resource | Description | Type | Analysis |
| AdministratorBannerCreateService.java | Replace this assert with a proper check. | Yellow | The assert could be replaced with an if, but it doesn’t seem essential. |
| AdministratorBannerCreateService.java | Replace this assert with a proper check. | Yellow | The assert could be replaced with an if, but it doesn’t seem essential. |
| AdministratorBannerCreateService.java | Replace this assert with a proper check. | Yellow | The assert could be replaced with an if, but it doesn’t seem essential. |
| AdministratorBannerCreateService.java | Replace this assert with a proper check. | Yellow | The assert could be replaced with an if, but it doesn’t seem essential. |
| AdministratorBannerCreateService.java | Define a constant instead of duplicating this literal "endPeriod" 4 times. [+4 locations] | Red | Analysis 1 |
| AdministratorBannerDeleteService.java | Replace this assert with a proper check. | Yellow | The assert could be replaced with an if, but it doesn’t seem essential. |
| AdministratorBannerDeleteService.java | Replace this assert with a proper check. | Yellow | The assert could be replaced with an if, but it doesn’t seem essential. |
| AdministratorBannerDeleteService.java | Replace this assert with a proper check. | Yellow | The assert could be replaced with an if, but it doesn’t seem essential. |
| AdministratorBannerDeleteService.java | Replace this assert with a proper check. | Yellow | The assert could be replaced with an if, but it doesn’t seem essential. |
| AdministratorBannerListAllService.java | Replace this assert with a proper check. | Yellow | The assert could be replaced with an if, but it doesn’t seem essential. |
| AdministratorBannerListRecentService.java | Replace this assert with a proper check. | Yellow | The assert could be replaced with an if, but it doesn’t seem essential. |
| AdministratorBannerShowService.java | Replace this assert with a proper check. | Yellow | The assert could be replaced with an if, but it doesn’t seem essential. |
| AdministratorBannerUpdateService.java | Replace this assert with a proper check. | Yellow | The assert could be replaced with an if, but it doesn’t seem essential. |
| AdministratorBannerUpdateService.java | Replace this assert with a proper check. | Yellow | The assert could be replaced with an if, but it doesn’t seem essential. |
| AdministratorBannerUpdateService.java | Replace this assert with a proper check. | Yellow | The assert could be replaced with an if, but it doesn’t seem essential. |
| AdministratorBannerUpdateService.java | Replace this assert with a proper check. | Yellow | The assert could be replaced with an if, but it doesn’t seem essential. |
| AdministratorBannerUpdateService.java | Define a constant instead of duplicating this literal "endPeriod" 4 times. [+4 locations] | Red | Analysis 2 |
| AnyClaimCreateService.java | Replace this assert with a proper check. | Yellow | The assert could be replaced with an if, but it doesn’t seem essential. |
| AnyClaimCreateService.java | Replace this assert with a proper check. | Yellow | The assert could be replaced with an if, but it doesn’t seem essential. |
| AnyClaimCreateService.java | Replace this assert with a proper check. | Yellow | The assert could be replaced with an if, but it doesn’t seem essential. |
| AnyClaimCreateService.java | Replace this assert with a proper check. | Yellow | The assert could be replaced with an if, but it doesn’t seem essential. |
| AnyClaimCreateService.java | Define a constant instead of duplicating this literal "confirmation" 3 times. [+3 locations] | Red | Analysis 3 |
| AnyClaimListAllService.java | Replace this assert with a proper check. | Yellow | The assert could be replaced with an if, but it doesn’t seem essential. |
| AnyClaimListRecentService.java | Replace this assert with a proper check. | Yellow | The assert could be replaced with an if, but it doesn’t seem essential. |
| AnyClaimShowService.java | Replace this assert with a proper check. | Yellow | The assert could be replaced with an if, but it doesn’t seem essential. |
| AnyContractListService.java | Replace this assert with a proper check. | Yellow | The assert could be replaced with an if, but it doesn’t seem essential. |
| AnyContractShowService.java | Replace this assert with a proper check. | Yellow | The assert could be replaced with an if, but it doesn’t seem essential. |
| AnyProgressLogController.java | Rename this package name to match the regular expression '^[a-z\_]+(\.[a-z\_][a-z0-9\_]\*)\*$'. | Blue | Analysis is not required. The Smell is not dangerous. |
| AnyProgressLogListService.java | Rename this package name to match the regular expression '^[a-z\_]+(\.[a-z\_][a-z0-9\_]\*)\*$'. | Blue | Analysis is not required. The Smell is not dangerous. |
| AnyProgressLogListService.java | Replace this assert with a proper check. | Yellow | The assert could be replaced with an if, but it doesn’t seem essential. |
| AnyProgressLogRepository.java | Rename this package name to match the regular expression '^[a-z\_]+(\.[a-z\_][a-z0-9\_]\*)\*$'. | Blue | Analysis is not required. The Smell is not dangerous. |
| AnyProgressLogShowService.java | Rename this package name to match the regular expression '^[a-z\_]+(\.[a-z\_][a-z0-9\_]\*)\*$'. | Blue | Analysis is not required. The Smell is not dangerous. |
| AnyProgressLogShowService.java | Replace this assert with a proper check. | Yellow | The assert could be replaced with an if, but it doesn’t seem essential. |
| AuditRecord.java | Override the "equals" method in this class. | Blue | Analysis is not required. The Smell is not dangerous. |
| AuditRecord.java | Rename this package name to match the regular expression '^[a-z\_]+(\.[a-z\_][a-z0-9\_]\*)\*$'. | Blue | Analysis is not required. The Smell is not dangerous. |
| AuditRecord.java | Use concise character class syntax '\\d' instead of '[0-9]'. | Blue |  |
| AuditRecord.java | Use concise character class syntax '\\d' instead of '[0-9]'. | Blue |  |
| Auditor.java | Override the "equals" method in this class. | Blue | Analysis is not required. The Smell is not dangerous. |
| AuditorAuditRecordController.java | Rename this package name to match the regular expression '^[a-z\_]+(\.[a-z\_][a-z0-9\_]\*)\*$'. | Blue | Analysis is not required. The Smell is not dangerous. |
| AuditorAuditRecordCreateService.java | Rename this package name to match the regular expression '^[a-z\_]+(\.[a-z\_][a-z0-9\_]\*)\*$'. | Blue |  |
| AuditorAuditRecordCreateService.java | Replace this assert with a proper check. | Yellow | The assert could be replaced with an if, but it doesn’t seem essential. |
| AuditorAuditRecordCreateService.java | Replace this assert with a proper check. | Yellow | The assert could be replaced with an if, but it doesn’t seem essential. |
| AuditorAuditRecordCreateService.java | Replace this assert with a proper check. | Yellow | The assert could be replaced with an if, but it doesn’t seem essential. |
| AuditorAuditRecordCreateService.java | Replace this assert with a proper check. | Yellow | The assert could be replaced with an if, but it doesn’t seem essential. |
| AuditorAuditRecordCreateService.java | Define a constant instead of duplicating this literal "endPeriod" 4 times. [+4 locations] | Red | Analysis 4 |
| AuditorAuditRecordCreateService.java | Define a constant instead of duplicating this literal "masterId" 4 times. [+4 locations] | Red | Analysis 5 |
| AuditorAuditRecordDeleteService.java | Rename this package name to match the regular expression '^[a-z\_]+(\.[a-z\_][a-z0-9\_]\*)\*$'. | Blue | Analysis is not required. The Smell is not dangerous. |
| AuditorAuditRecordDeleteService.java | Replace this assert with a proper check. | Yellow | The assert could be replaced with an if, but it doesn’t seem essential. |
| AuditorAuditRecordDeleteService.java | Replace this assert with a proper check. | Yellow | The assert could be replaced with an if, but it doesn’t seem essential. |
| AuditorAuditRecordDeleteService.java | Replace this assert with a proper check. | Yellow | The assert could be replaced with an if, but it doesn’t seem essential. |
| AuditorAuditRecordDeleteService.java | Replace this assert with a proper check. | Yellow | The assert could be replaced with an if, but it doesn’t seem essential. |
| AuditorAuditRecordListService.java | Rename this package name to match the regular expression '^[a-z\_]+(\.[a-z\_][a-z0-9\_]\*)\*$'. | Blue | Analysis is not required. The Smell is not dangerous. |
| AuditorAuditRecordListService.java | Replace this assert with a proper check. | Yellow | The assert could be replaced with an if, but it doesn’t seem essential. |
| AuditorAuditRecordListService.java | Replace this assert with a proper check. | Yellow | The assert could be replaced with an if, but it doesn’t seem essential. |
| AuditorAuditRecordListService.java | Define a constant instead of duplicating this literal "masterId" 4 times. [+4 locations] | Red | Analysis 6 |
| AuditorAuditRecordRepository.java | Rename this package name to match the regular expression '^[a-z\_]+(\.[a-z\_][a-z0-9\_]\*)\*$'. | Blue | Analysis is not required. The Smell is not dangerous. |
| AuditorAuditRecordShowService.java | Rename this package name to match the regular expression '^[a-z\_]+(\.[a-z\_][a-z0-9\_]\*)\*$'. | Blue | Analysis is not required. The Smell is not dangerous. |
| AuditorAuditRecordShowService.java | Replace this assert with a proper check. | Yellow |  |
| AuditorAuditRecordUpdateService.java | Rename this package name to match the regular expression '^[a-z\_]+(\.[a-z\_][a-z0-9\_]\*)\*$'. | Blue | Analysis is not required. The Smell is not dangerous. |
| AuditorAuditRecordUpdateService.java | Replace this assert with a proper check. | Yellow | The assert could be replaced with an if, but it doesn’t seem essential. |
| AuditorAuditRecordUpdateService.java | Replace this assert with a proper check. | Yellow | The assert could be replaced with an if, but it doesn’t seem essential. |
| AuditorAuditRecordUpdateService.java | Replace this assert with a proper check. | Yellow | The assert could be replaced with an if, but it doesn’t seem essential. |
| AuditorAuditRecordUpdateService.java | Replace this assert with a proper check. | Yellow | The assert could be replaced with an if, but it doesn’t seem essential. |
| AuditorCodeAuditController.java | Rename this package name to match the regular expression '^[a-z\_]+(\.[a-z\_][a-z0-9\_]\*)\*$'. | Blue | Analysis is not required. The Smell is not dangerous. |
| AuditorCodeAuditCreateService.java | Rename this package name to match the regular expression '^[a-z\_]+(\.[a-z\_][a-z0-9\_]\*)\*$'. | Blue | Analysis is not required. The Smell is not dangerous. |
| AuditorCodeAuditCreateService.java | Replace this assert with a proper check. | Yellow | The assert could be replaced with an if, but it doesn’t seem essential. |
| AuditorCodeAuditCreateService.java | Replace this assert with a proper check. | Yellow | The assert could be replaced with an if, but it doesn’t seem essential. |
| AuditorCodeAuditCreateService.java | Replace this assert with a proper check. | Yellow | The assert could be replaced with an if, but it doesn’t seem essential. |
| AuditorCodeAuditCreateService.java | Replace this assert with a proper check. | Yellow | The assert could be replaced with an if, but it doesn’t seem essential. |
| AuditorCodeAuditDeleteService.java | Rename this package name to match the regular expression '^[a-z\_]+(\.[a-z\_][a-z0-9\_]\*)\*$'. | Blue | Analysis is not required. The Smell is not dangerous. |
| AuditorCodeAuditDeleteService.java | Replace this assert with a proper check. | Yellow | The assert could be replaced with an if, but it doesn’t seem essential. |
| AuditorCodeAuditDeleteService.java | Replace this assert with a proper check. | Yellow | The assert could be replaced with an if, but it doesn’t seem essential. |
| AuditorCodeAuditDeleteService.java | Replace this assert with a proper check. | Yellow | The assert could be replaced with an if, but it doesn’t seem essential. |
| AuditorCodeAuditDeleteService.java | Replace this assert with a proper check. | Yellow | The assert could be replaced with an if, but it doesn’t seem essential. |
| AuditorCodeAuditListService.java | Rename this package name to match the regular expression '^[a-z\_]+(\.[a-z\_][a-z0-9\_]\*)\*$'. | Blue | Analysis is not required. The Smell is not dangerous. |
| AuditorCodeAuditListService.java | Replace this assert with a proper check. | Yellow | The assert could be replaced with an if, but it doesn’t seem essential. |
| AuditorCodeAuditPublishService.java | Complete the task associated to this TODO comment. | Blue |  |
| AuditorCodeAuditPublishService.java | Rename this package name to match the regular expression '^[a-z\_]+(\.[a-z\_][a-z0-9\_]\*)\*$'. | Blue | Analysis is not required. The Smell is not dangerous. |
| AuditorCodeAuditPublishService.java | Replace this assert with a proper check. | Yellow | The assert could be replaced with an if, but it doesn’t seem essential. |
| AuditorCodeAuditPublishService.java | Replace this assert with a proper check. | Yellow | The assert could be replaced with an if, but it doesn’t seem essential. |
| AuditorCodeAuditPublishService.java | Replace this assert with a proper check. | Yellow | The assert could be replaced with an if, but it doesn’t seem essential. |
| AuditorCodeAuditPublishService.java | Replace this assert with a proper check. | Yellow | The assert could be replaced with an if, but it doesn’t seem essential. |
| AuditorCodeAuditRepository.java | Rename this package name to match the regular expression '^[a-z\_]+(\.[a-z\_][a-z0-9\_]\*)\*$'. | Blue | Analysis is not required. The Smell is not dangerous. |
| AuditorCodeAuditShowService.java | Rename this package name to match the regular expression '^[a-z\_]+(\.[a-z\_][a-z0-9\_]\*)\*$'. | Blue | Analysis is not required. The Smell is not dangerous. |
| AuditorCodeAuditShowService.java | Replace this assert with a proper check. | Yellow | The assert could be replaced with an if, but it doesn’t seem essential. |
| AuditorCodeAuditShowService.java | Replace this assert with a proper check. | Yellow | The assert could be replaced with an if, but it doesn’t seem essential. |
| AuditorCodeAuditShowService.java | Replace this assert with a proper check. | Yellow | The assert could be replaced with an if, but it doesn’t seem essential. |
| AuditorCodeAuditShowService.java | Replace this assert with a proper check. | Yellow | The assert could be replaced with an if, but it doesn’t seem essential. |
| AuditorCodeAuditUpdateService.java | Rename this package name to match the regular expression '^[a-z\_]+(\.[a-z\_][a-z0-9\_]\*)\*$'. | Blue | Analysis is not required. The Smell is not dangerous. |
| AuditorCodeAuditUpdateService.java | Replace this assert with a proper check. | Yellow | The assert could be replaced with an if, but it doesn’t seem essential. |
| AuditorCodeAuditUpdateService.java | Replace this assert with a proper check. | Yellow | The assert could be replaced with an if, but it doesn’t seem essential. |
| AuditorCodeAuditUpdateService.java | Replace this assert with a proper check. | Yellow | The assert could be replaced with an if, but it doesn’t seem essential. |
| AuditorCodeAuditUpdateService.java | Replace this assert with a proper check. | Yellow | The assert could be replaced with an if, but it doesn’t seem essential. |
| AuthenticatedClientCreateService.java | Replace this assert with a proper check. | Yellow | The assert could be replaced with an if, but it doesn’t seem essential. |
| AuthenticatedClientCreateService.java | Replace this assert with a proper check. | Yellow | The assert could be replaced with an if, but it doesn’t seem essential. |
| AuthenticatedClientCreateService.java | Replace this assert with a proper check. | Yellow | The assert could be replaced with an if, but it doesn’t seem essential. |
| AuthenticatedClientCreateService.java | Replace this assert with a proper check. | Yellow | The assert could be replaced with an if, but it doesn’t seem essential. |
| AuthenticatedClientCreateService.java | Define a constant instead of duplicating this literal "identification" 4 times. [+4 locations] | Red | Analysis 7 |
| AuthenticatedClientUpdateService.java | Replace this assert with a proper check. | Yellow | The assert could be replaced with an if, but it doesn’t seem essential. |
| AuthenticatedClientUpdateService.java | Replace this assert with a proper check. | Yellow | The assert could be replaced with an if, but it doesn’t seem essential. |

# 5. Red Analysis

1. Analysis 1: This bad smell makes reference to the “duplication” of the usage of the parameter called “endPeriod”, and suggests defining a constant instead. Sonar Lint complains about this because of the usage of a string as a parameter. We could fix this by declaring this constant “const END\_PERIOD = endPeriod;” and calling it instead. However, we don’t consider this to be a real issue and will dismiss any fixes.
2. Analysis 2: Exactly the same thing from Analysis 1
3. Analysis 3: Same problem that we found in analysis 1, but for the string “confirmation”
4. Analysis 4: Exactly the same thing from Analysis 1 and 2
5. Analysis 5: Same problem that we found in analysis 1, but for the string “masterId”
6. Analysis 6 Exactly the same thing from Analysis 5
7. Analysis 7: Same problem that we found in analysis 1, but for the string “identification”

# 6. Bibliography

If there’s no relevant bibliography, write “intentionally blank”.