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| ing-app-spark Maven Webapp  Version 1.0  Code analysis |

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| **By: default**  **2023-05-21** |

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# Introduction

This document contains results of the code analysis of ing-app-spark Maven Webapp.

# Configuration

* Quality Profiles
  + Names: Sonar way [Java]; Sonar way [XML];
  + Files: AYg\_y3J1mdQ7xc402lai.json; AYg\_y3O6mdQ7xc402lkK.json;
* Quality Gate
  + Name: Sonar way
  + File: Sonar way.xml

# Synthesis

## Analysis Status

|  |  |  |  |
| --- | --- | --- | --- |
| Reliability | Security | Security Review | Maintainability |
| A.png | **A.png** | **A.png** | **A.png** |

## Quality gate status

|  |  |
| --- | --- |
| Quality Gate Status | **OK.png** |

|  |  |
| --- | --- |
| Metric | Value |
| Reliability Rating on New Code | OK |
| Security Rating on New Code | OK |
| Maintainability Rating on New Code | OK |

## Metrics

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Coverage | Duplication | Comment  density | Median number of lines of code per file | Adherence to coding standard |
| 0.0 % | **0.0 %** | **0.0 %** | **36.5** | **100.0 %** |

## Tests

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Total | Success Rate | Skipped | Errors | Failures |
| 4 | **100.0 %** | **0** | **0** | **0** |

## Detailed technical debt

|  |  |  |  |
| --- | --- | --- | --- |
| Reliability | Security | Maintainability | Total |
| - | - | 0d 0h 20min | 0d 0h 20min |

## Metrics Range

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | Cyclomatic  Complexity | Cognitive  Complexity | Lines of code per file | Comment  density (%) | Coverage | Duplication (%) |
| Min | 0.0 | 0.0 | 4.0 | 0.0 | 0.0 | 0.0 |
| Max | 59.0 | 27.0 | 363.0 | 0.0 | 0.0 | 0.0 |

## Volume

|  |  |
| --- | --- |
| Language | Number |
| Java | 363 |
| XML | 134 |
| Total | 497 |

# Issues

## Charts

## Issues count by severity and type

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Type / Severity | INFO | MINOR | MAJOR | CRITICAL | BLOCKER |
| BUG | 0 | 0 | 0 | 0 | 0 |
| VULNERABILITY | 0 | 0 | 0 | 0 | 0 |
| CODE\_SMELL | 0 | 0 | 1 | 0 | 0 |

## Issues List

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Description | Type | Severity | Number |
| Generic exceptions should never be thrown | Using such generic exceptions as Error, RuntimeException, Throwable, and Exception prevents calling methods from handling true, system-generated exceptions differently than application-generated errors. Noncompliant Code Example public void foo(String bar) throws Throwable { // Noncompliant throw new RuntimeException("My Message"); // Noncompliant } Compliant Solution public void foo(String bar) { throw new MyOwnRuntimeException("My Message"); } Exceptions Generic exceptions in the signatures of overriding methods are ignored, because overriding method has to follow signature of the throw declaration in the superclass. The issue will be raised on superclass declaration of the method (or won’t be raised at all if superclass is not part of the analysis). @Override public void myMethod() throws Exception {...} Generic exceptions are also ignored in the signatures of methods that make calls to methods that throw generic exceptions. public void myOtherMethod throws Exception { doTheThing(); // this method throws Exception } See MITRE, CWE-397 - Declaration of Throws for Generic Exception CERT, ERR07-J. - Do not throw RuntimeException, Exception, or Throwable | CODE\_SMELL | MAJOR | 1 |

# Security Hotspots

## Security hotspots count by category and priority

|  |  |  |  |
| --- | --- | --- | --- |
| Category / Priority | LOW | MEDIUM | HIGH |
| LDAP Injection | 0 | 0 | 0 |
| Object Injection | 0 | 0 | 0 |
| Server-Side Request Forgery (SSRF) | 0 | 0 | 0 |
| XML External Entity (XXE) | 0 | 0 | 0 |
| Insecure Configuration | 0 | 0 | 0 |
| XPath Injection | 0 | 0 | 0 |
| Authentication | 0 | 0 | 0 |
| Weak Cryptography | 0 | 0 | 0 |
| Denial of Service (DoS) | 0 | 0 | 0 |
| Log Injection | 0 | 0 | 0 |
| Cross-Site Request Forgery (CSRF) | 0 | 0 | 0 |
| Open Redirect | 0 | 0 | 0 |
| Permission | 0 | 0 | 0 |
| SQL Injection | 0 | 0 | 0 |
| Encryption of Sensitive Data | 0 | 0 | 0 |
| Traceability | 0 | 0 | 0 |
| Buffer Overflow | 0 | 0 | 0 |
| File Manipulation | 0 | 0 | 0 |
| Code Injection (RCE) | 0 | 0 | 0 |
| Cross-Site Scripting (XSS) | 0 | 0 | 0 |
| Command Injection | 0 | 0 | 0 |
| Path Traversal Injection | 0 | 0 | 0 |
| HTTP Response Splitting | 0 | 0 | 0 |
| Others | 0 | 0 | 0 |

## Security hotspots List