sonar RULES

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Java static code analysis

Unique rules to find Bugs, Vulnerabilities, Security Hotspots, and Code Smells in your JAVA code

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Tags ⌄   Search by name... 🔍

🐛 Bug

"notifyAll" should be used
🐛 Bug

Blocks should be synchronized on "private final" fields
🐛 Bug

Non-serializable objects should not be stored in "HttpSession" objects
🐛 Bug

"wait", "notify" and "notifyAll" should only be called when a lock is obviously held on an object
🐛 Bug

Null pointers should not be dereferenced
🐛 Bug

Loop conditions should be true at least once
🐛 Bug

A "for" loop update clause should move the counter in the right direction
🐛 Bug

Non-public methods should not be "@Transactional"
🐛 Bug

Servlets should not have mutable instance fields
🐛 Bug

"toString()" and "clone()" methods should not return null
🐛 Bug

".equals()" should not be used to test the values of "Atomic" classes
🐛 Bug

A conditionally executed single line should be denoted by indentation

Analyze your code

⊕ Code Smell   ↻ Critical ⑦   🏷 confusing suspicious

In the absence of enclosing curly braces, the line immediately after a conditional is the one that is conditionally executed. By both convention and good practice, such lines are indented. In the absence of both curly braces and indentation the intent of the original programmer is entirely unclear and perhaps not actually what is executed. Additionally, such code is highly likely to be confusing to maintainers.

Noncompliant Code Example

```
if (condition)  // Noncompliant
doTheThing();

doTheOtherThing();
somethingElseEntirely();

foo();
```

Compliant Solution

```
if (condition)
  doTheThing();

doTheOtherThing();
somethingElseEntirely();

foo();
```

Available In:

sonarlint ⊖ | sonarcloud ☁ | sonarqube 〰

Return values from functions without side effects should not be ignored

🐞 Bug

Child class methods named for parent class methods should be overrides

🐞 Bug

Inappropriate "Collection" calls should not be made

🐞 Bug

Silly equality checks should not be made

🐞 Bug