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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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Abstract class names should comply with a naming convention

Code Smell

Strings literals should be placed on the left side when checking for equality

Code Smell

Files should contain an empty newline at the end

Code Smell

Source code should be indented consistently

Code Smell

A close curly brace should be located at the beginning of a line

Code Smell

Close curly brace and the next "else", "catch" and "finally" keywords should be on two different lines

Code Smell

Close curly brace and the next "else", "catch" and "finally" keywords should be located on the same line

Code Smell

An open curly brace should be located at the beginning of a line

Code Smell

An open curly brace should be located at the end of a line

Code Smell

Tabulation characters should not be used

Code Smell

Functions should not be defined with a variable number of arguments

Code Smell

Inheritance tree of classes should not be too deep

Analyze your code

Code Smell

Major

design

Inheritance is certainly one of the most valuable concepts in object-oriented programming. It's a way to compartmentalize and reuse code by creating collections of attributes and behaviors called classes which can be based on previously created classes. But abusing this concept by creating a deep inheritance tree can lead to very complex and unmaintainable source code. Most of the time too deep of an inheritance tree is due to bad object oriented design which leads to a systematic use of 'inheritance' when 'composition' would be better suited.

This rule raises an issue when the inheritance tree, starting from Object, has a greater depth than is allowed.

For the parameter of the rule, the following rules are applied:

- ? matches a single character
- * matches zero or more characters
- ** matches zero or more packages

Examples:

- java.fwk.AbstractFwkClass will stop count when AbstractFwkClassclass is reached.
- java.fwk.* will stop count when any member of java.fwkPackage package is reached.
- java.fwk.** same as above, but including sub-packages.

Exceptions:

The rule stops counting when it encounters a class from one of the following packages (or sub-packages):

- android.**
- com.intellij.**
- com.persistit.**
- javax.swing.**
- org.eclipse.**
- org.springframework.**

Available In:

sonarlint

sonarcloud

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<div>Track uses of "@SuppressWarnings" annotations</div> <div> Code Smell</div>