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C# static code analysis

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

All rules 409 | Vulnerability 34 | Bug 76 | Security Hotspot 28 | Code Smell 271 | Quick Fix 52

Tags

Search by name...

"protected" members
Code Smell

Underscores should be used to make large numbers readable
Code Smell

"ToString()" calls should not be redundant
Code Smell

"==" should not be used when "Equals" is overridden
Code Smell

An abstract class should have both abstract and concrete methods
Code Smell

Multiple variables should not be declared on the same line
Code Smell

Culture should be specified for "string" operations
Code Smell

"switch" statements should have at least 3 "case" clauses
Code Smell

break statements should not be used except for switch cases
Code Smell

String literals should not be duplicated
Code Smell

Files should contain an empty newline at the end
Code Smell

Unused "using" should be removed
Code Smell

URIs should not be hardcoded

Analyze your code

Code Smell | Minor

Hardcoding a URI makes it difficult to test a program: path literals are not always portable across operating systems, a given absolute path may not exist on a specific test environment, a specified Internet URL may not be available when executing the tests, production environment filesystems usually differ from the development environment, ...etc. For all those reasons, a URI should never be hardcoded. Instead, it should be replaced by customizable parameter.

Further even if the elements of a URI are obtained dynamically, portability can still be limited if the path-delimiters are hardcoded.

This rule raises an issue when URI's or path delimiters are hardcoded.

Exceptions

This rule does not raise an issue when an ASP.NET virtual path is passed as an argument to one of the following:

- methods: `System.Web.HttpServerUtilityBase.MapPath()`, `System.Web.HttpRequestBase.MapPath()`, `System.Web.HttpResponseBase.ApplyAppPathModifier()`, `System.Web.Mvc.UrlHelper.Content()`
- all methods of: `System.Web.VirtualPathUtility`
- constructors of: `Microsoft.AspNetCore.Mvc.VirtualFileResult`, `Microsoft.AspNetCore.Routing.VirtualPathData`

Available In:

sonarlint | sonarcloud | sonarqube

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

Code Smell

Tabulation characters should not be used

Code Smell

Methods and properties should be named in PascalCase

Code Smell

Track uses of in-source issue suppressions

Code Smell