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Kotlin static code analysis

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

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Tags

Search by name...

Hard-coded credentials are security-sensitive

Security Hotspot

Cipher algorithms should be robust

Vulnerability

Encryption algorithms should be used with secure mode and padding scheme

Vulnerability

Server hostnames should be verified during SSL/TLS connections

Vulnerability

Server certificates should be verified during SSL/TLS connections

Vulnerability

Cryptographic keys should be robust

Vulnerability

Weak SSL/TLS protocols should not be used

Vulnerability

"SecureRandom" seeds should not be predictable

Vulnerability

Cipher Block Chaining IVs should be unpredictable

Vulnerability

Hashes should include an unpredictable salt

Vulnerability

Regular expressions should be syntactically valid

Bug

"runFinalizersOnExit" should not be called

Bug

ViewModel classes should create coroutines

Analyze your code

Code Smell Major coroutines android bad-practice

Views should not be responsible for directly triggering coroutines. Hence, `ViewModel` classes should prefer creating coroutines instead of exposing suspending functions to perform some piece of business logic. This allows for easier testing of your application, as `ViewModel` classes can be unit tested, whereas views require instrumentation tests.

Please refer to the [Android docs](#) for more advanced examples and mechanisms of updating the views with data generated asynchronously.

This rule raises an issue when suspending functions are exposed by classes inheriting from `ViewModel`.

Noncompliant Code Example

```
class MyViewModel : ViewModel() {
    suspend fun performAction() = suspendingWorker()
}
```

Compliant Solution

```
class MyViewModel : ViewModel() {
    fun performAction() =
        viewModelScope.launch {
            suspendingWorker()
        }
}
```

See

- [The ViewModel should create coroutines](#) (Android coroutines best practices)

Available In:

sonarlint | sonarcloud | sonarqube

<div>"ScheduledThreadPoolExecutor" should not have 0 core threads</div> <div> Bug</div>
<div>Jump statements should not occur in "finally" blocks</div> <div> Bug</div>
<div>Using clear-text protocols is security-sensitive</div> <div> Security Hotspot</div>
<div>Accessing Android external storage is security-sensitive</div> <div> Security Hotspot</div>
<div>Receiving intents is security-sensitive</div> <div> Security Hotspot</div>
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<div>Using weak hashing algorithms is security-sensitive</div> <div> Security Hotspot</div>
<div>Using pseudorandom number generators (PRNGs) is security-sensitive</div> <div> Security Hotspot</div>
<div>Empty lines should not be tested with regex MULTILINE flag</div> <div> Code Smell</div>
<div>Cognitive Complexity of functions should not be too high</div> <div> Code Smell</div>