



**agent  
not provided**

*go:Sonar way*

*py:Sonar way*

*2024-06-17*

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# 1. agent

报告提供了项目指标的概要，显示了与项目质量相关的最重要的指标。如果需要获取更详细的信息，请[登陆网站](#)进一步查询。

报告的项目为agent，生成时间为2024-06-17，使用的质量配置为 go:Sonar way py:Sonar way，共计 159条规则。


## 1.1. 概述

### 编码问题

Bug	可靠性修复工作
0	0min
漏洞	安全修复工作
0	0min
坏味道	技术债务
17	2h22min
17	
问题	
	开启问题17
	重开问题0
	确认问题0
	误判问题0
	不修复的问题0
	已解决的问题474
	已删除的问题0
	阻断0
	严重2
	主要13
	次要2
	提示0

### 静态分析

项目规模

	agent	Sonar Report
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**16762**  
代码行数

行数  
方法  
类  
文件  
目录  
重复行(%)

22043  
769  
106  
70  
N/A  
4.5

复杂度

**2268**  
复杂度

文件

32.4

注释(%)

**13.9**  
注释(%)

注释行数

2713

## 1.2. 问题分析

违反最多的规则TOP10	
Function names should comply with a naming convention	8
Sections of code should not be commented out	4
String literals should not be duplicated	2
Functions should not have too many parameters	1
Jump statements should not be redundant	1
Unused local variables should be removed	1

违规最多的文件TOP5	
code_clean.py	16
router.go	1

复杂度最高的文件TOP5	
binder.go	322
router.go	162
router_test.go	140
echo_test.go	123
echo.go	116

重复行最多的文件TOP5	
router_test.go	587
cors_test.go	96
logger_test.go	52
extractor_test.go	48
decompress_test.go	40

### 1.3. 问题详情

规则	Function names should comply with a naming convention	
规则描述	<p>Shared coding conventions allow teams to collaborate efficiently. This rule checks that all function names match a provided regular expression.</p> <p>Noncompliant Code Example</p> <p>With the default provided regular expression: <code>^[a-z_][a-z0-9]*\$</code></p> <pre>def MyFunction(a,b):     ...</pre> <p>Compliant Solution</p> <pre>def my_function(a,b):     ...</pre>	
文件名称		违规行
agent:code_clean.py		194, 228, 256, 271, 290, 302, 322, 329

规则	Sections of code should not be commented out	
规则描述	<p>Programmers should not comment out code as it bloats programs and reduces readability.</p> <p>Unused code should be deleted and can be retrieved from source control history if required.</p>	
文件名称		违规行
agent:code_clean.py		29, 42, 219, 285

规则	String literals should not be duplicated	
规则描述	<p>Duplicated string literals make the process of refactoring error-prone, since you must be sure to update all occurrences. On the other hand, constants can be referenced from many places, but only need to be updated in a single place.</p> <p>Noncompliant Code Example</p> <p>With the default threshold of 3:</p> <pre>def run():     prepare("this is a duplicate") # Noncompliant - "this is a duplicate" is duplicated 3 times     execute("this is a duplicate")     release("this is a duplicate")</pre> <p>Compliant Solution</p> <pre>ACTION_1 = "action1"  def run():     prepare(ACTION_1)     execute(ACTION_1)     release(ACTION_1)</pre> <p>Exceptions</p> <p>No issue will be raised on:</p> <ul style="list-style-type: none"> <li>duplicated string in decorators</li> <li>strings with less than 5 characters</li> <li>strings with only letters, numbers and underscores</li> </ul> <pre>@app.route("/api/users/", methods=['GET', 'POST', 'PUT']) def users():     pass  @app.route("/api/projects/", methods=['GET', 'POST', 'PUT']) # Compliant def projects():     pass</pre>	
文件名称	agent:code_clean.py	违规行
		33, 210

规则	Functions should not have too many parameters
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规则描述	<p>A long parameter list can indicate that a new structure should be created to wrap the numerous parameters or that the function is doing too many things.</p> <p>Noncompliant Code Example</p> <p>With a maximum number of 4 parameters:</p> <pre>func foo(p1 int, p2 int, p3 int, p4 int, p5 int) { // Noncompliant     // ... }</pre> <p>Compliant Solution</p> <pre>func foo(p1 int, p2 int, p3 int, p4 int) {     // ... }</pre>
文件名称	违规行
agent:router.go	401


规则	Unused local variables should be removed
规则描述	<p>If a local variable is declared but not used, it is dead code and should be removed. Doing so will improve maintainability because developers will not wonder what the variable is used for.</p> <p>Noncompliant Code Example</p> <pre>def hello(name):     message = "Hello " + name # Noncompliant     print(name) for i in range(10):     foo()</pre> <p>Compliant Solution</p> <pre>def hello(name):     message = "Hello " + name     print(message) for _ in range(10):     foo()</pre> <p>Exceptions</p> <p>as well as tuples will not raise an issue for this rule. The following examples are compliant:</p> <pre>for _ in range(10):     do_something() username, login, password = auth do_something_else(username, login)</pre>
文件名称	违规行
agent:code_clean.py	196

规则	Jump statements should not be redundant
规则描述	<p>Jump statements, such as return , break and continue let you change the default flow of program execution, but jump statements that direct the control flow to the original direction are just a waste of keystrokes. Noncompliant Code Example</p> <pre>def redundant_jump(x):     if x == 1:         print(True)         return # NonCompliant</pre> <p>Compliant Solution</p> <pre>def redundant_jump(x):     if x == 1:         print(True)</pre> <p>Exceptions</p> <p>No issue is raised if the jump statement is the only statement of a statement suite:</p> <pre>def my_function(x):     if x &gt; 5:         do_something()     elif x == 0:         return # ok even it could be changed to "pass"     else:         do_something_else()</pre> <p>No issue is raised for return None because this was certainly done on purpose to be explicit that a function is really returning None .</p>
文件名称	违规行
agent:code_clean.py	346

## 1.4. 质量配置

质量配置	go:Sonar way Bug:6 坏味道:17	
规则	类型	违规级别
Variables should not be self-assigned	Bug	主要
Identical expressions should not be used on both sides of a binary operator	Bug	主要
All code should be reachable	Bug	主要
Related "if/else if" statements should not have the same condition	Bug	主要
"=+" should not be used instead of "+="	Bug	主要
All branches in a conditional structure should not have exactly the same implementation	Bug	主要



	agent	Sonar Report
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Cognitive Complexity of functions should not be too high	坏味道	严重
String literals should not be duplicated	坏味道	严重
Functions should not be empty	坏味道	严重
Redundant pairs of parentheses should be removed	坏味道	主要
Track uses of "FIXME" tags	坏味道	主要
Two branches in a conditional structure should not have exactly the same implementation	坏味道	主要
Functions should not have identical implementations	坏味道	主要
Track parsing failures	坏味道	主要
"switch" statements should not have too many "case" clauses	坏味道	主要
Functions should not have too many parameters	坏味道	主要
Nested blocks of code should not be left empty	坏味道	主要
Multi-line comments should not be empty	坏味道	次要
Boolean checks should not be inverted	坏味道	次要
Boolean literals should not be redundant	坏味道	次要
Function and method names should comply with a naming convention	坏味道	次要
Local variable and function parameter names should comply with a naming convention	坏味道	次要
Track uses of "TODO" tags	坏味道	提示

质量配置	py:Sonar way Bug:41 漏洞:13 坏味道:61	
规则	类型	违规级别
Recursion should not be infinite	Bug	阻断
Instance and class methods should have at least one positional parameter	Bug	阻断
Boolean expressions of exceptions should not be used in "except" statements	Bug	阻断
Special methods should have an expected number of parameters	Bug	阻断
Property getter, setter and deleter methods should have the expected number of parameters	Bug	阻断
Variables, classes and functions should be defined before being used	Bug	阻断
Operators should be used on compatible types	Bug	阻断
"__init__" should not return a value	Bug	阻断
Only strings should be listed in "__all__"	Bug	阻断
Silly equality checks should not be made	Bug	阻断
Identity operators should not be used with dissimilar types	Bug	阻断
String formatting should not lead to runtime errors	Bug	阻断

Caught Exceptions must derive from BaseException	Bug	阻断
The "open" builtin function should be called with a valid mode	Bug	阻断
Function arguments should be passed only once	Bug	阻断
"yield" and "return" should not be used outside functions	Bug	阻断
Calls should not be made to non-callable values	Bug	阻断
Raised Exceptions must derive from BaseException	Bug	阻断
Iterable unpacking, "for-in" loops and "yield from" should use an Iterable object	Bug	阻断
Item operations should be done on objects supporting them	Bug	阻断
Only defined names should be listed in "__all__"	Bug	阻断
The number and name of arguments passed to a function should match its parameters	Bug	阻断
Break, continue and return statements should not occur in "finally" blocks	Bug	严重
Exceptions' "__cause__" should be either an Exception or None	Bug	严重
"break" and "continue" should not be used outside a loop	Bug	严重
Variables should not be self-assigned	Bug	主要
Non-empty statements should change control flow or have at least one side-effect	Bug	主要
Increment and decrement operators should not be used	Bug	主要
"=+" should not be used instead of "+="	Bug	主要
Loops with at most one iteration should be refactored	Bug	主要
Return values from functions without side effects should not be ignored	Bug	主要
New objects should not be created only to check their identity	Bug	主要
All code should be reachable	Bug	主要
Identical expressions should not be used on both sides of a binary operator	Bug	主要
Related "if/else if" statements should not have the same condition	Bug	主要
All branches in a conditional structure should not have exactly the same implementation	Bug	主要
Collection content should not be replaced unconditionally	Bug	主要
Exceptions should not be created without being raised	Bug	主要
All "except" blocks should be able to catch exceptions	Bug	主要
Collection sizes and array length comparisons should make sense	Bug	主要

Function parameters initial values should not be ignored	Bug	次要
A secure password should be used when connecting to a database	漏洞	阻断
XML parsers should not be vulnerable to XXE attacks	漏洞	阻断
Cipher Block Chaining IV's should be unpredictable	漏洞	严重
Insecure temporary file creation methods should not be used	漏洞	严重
Hashes should include an unpredictable salt	漏洞	严重
JWT should be signed and verified	漏洞	严重
Cipher algorithms should be robust	漏洞	严重
Encryption algorithms should be used with secure mode and padding scheme	漏洞	严重
Weak SSL/TLS protocols should not be used	漏洞	严重
Cryptographic key generation should be based on strong parameters	漏洞	严重
Server certificates should be verified during SSL/TLS connections	漏洞	严重
LDAP connections should be authenticated	漏洞	严重
Server hostnames should be verified during SSL/TLS connections	漏洞	严重
Backticks should not be used	坏味道	阻断
The "exec" statement should not be used	坏味道	阻断
Functions returns should not be invariant	坏味道	阻断
Methods and field names should not differ only by capitalization	坏味道	阻断
Unread "private" attributes should be removed	坏味道	严重
Method overrides should not change contracts	坏味道	严重
Bare "raise" statements should only be used in "except" blocks	坏味道	严重
Cognitive Complexity of functions should not be too high	坏味道	严重
Some special methods should return "NotImplemented" instead of raising "NotImplementedError"	坏味道	严重
Constants should not be used as conditions	坏味道	严重
Wildcard imports should not be used	坏味道	严重
Function parameters' default values should not be modified or assigned	坏味道	严重
String literals should not be duplicated	坏味道	严重
"self" should be the first argument to instance methods	坏味道	严重
Comparison to None should not be constant	坏味道	严重
Arguments given to functions should be of an expected type	坏味道	严重
The first argument to class methods should follow the naming convention	坏味道	严重
Functions and methods should not be empty	坏味道	严重

Bare "raise" statements should not be used in "finally" blocks	坏味道	严重
Custom Exception classes should inherit from "Exception" or one of its subclasses	坏味道	严重
"SystemExit" should be re-raised	坏味道	严重
Track uses of "FIXME" tags	坏味道	主要
"Exception" and "BaseException" should not be raised	坏味道	主要
Functions, methods and lambdas should not have too many parameters	坏味道	主要
Nested blocks of code should not be left empty	坏味道	主要
Type checks shouldn't be confusing	坏味道	主要
Unused class-private methods should be removed	坏味道	主要
Function names should comply with a naming convention	坏味道	主要
A field should not duplicate the name of its containing class	坏味道	主要
Implicit string and byte concatenations should not be confusing	坏味道	主要
Redundant pairs of parentheses should be removed	坏味道	主要
Two branches in a conditional structure should not have exactly the same implementation	坏味道	主要
Identity comparisons should not be used with cached typed	坏味道	主要
The "print" statement should not be used	坏味道	主要
Functions and lambdas should not reference variables defined in enclosing loops	坏味道	主要
"<>" should not be used to test inequality	坏味道	主要
Unused scope-limited definitions should be removed	坏味道	主要
Conditional expressions should not be nested	坏味道	主要
Unused assignments should be removed	坏味道	主要
Values assigned to variables should match their type annotations	坏味道	主要
Collapsible "if" statements should be merged	坏味道	主要
Loops without "break" should not have "else" clauses	坏味道	主要
Special method "__exit__" should not re-raise the provided exception	坏味道	主要
Expressions creating dictionaries should not have duplicate keys	坏味道	主要
Expressions creating sets should not have duplicate values	坏味道	主要
String formatting should be used correctly	坏味道	主要
Functions and methods should not have identical implementations	坏味道	主要
Sections of code should not be commented out	坏味道	主要
Unused private nested classes should be removed	坏味道	主要

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Function return types should be consistent with their type hint	坏味道	主要
Builtins should not be shadowed by local variables	坏味道	主要
Field names should comply with a naming convention	坏味道	次要
Local variable and function parameter names should comply with a naming convention	坏味道	次要
A subclass should not be in the same "except" statement as a parent class	坏味道	次要
Walrus operator should not make code confusing	坏味道	次要
Class names should comply with a naming convention	坏味道	次要
Method names should comply with a naming convention	坏味道	次要
"except" clauses should do more than raise the same issue	坏味道	次要
Unused local variables should be removed	坏味道	次要
"pass" should not be used needlessly	坏味道	次要
Jump statements should not be redundant	坏味道	次要