

Code Review Report

input/test.py (test)

Issues

- input/test.py:1:C0114 Missing module docstring
- input/test.py:1:C0116 Missing function or method docstring
- input/test.py:3:W0612 Unused variable 'password'
- input/test.py:B105:LOW:Possible hardcoded password: 'secret123'
- Complexity for input/test.py: [Function(name='greet', lineno=1, col_offset=0, endline=3, is_method=False, classname=None, closures=[], complexity=1)]
- Performance profile for input/test.py: 0.05s

Diff

```
---
+++
@@ -1,3 +1,6 @@
+"""Module docstring"""
+
+def greet(name):
+    print("Hello, " + name)
+    password = "secret123"
+    """Docstring for greet"""
+    print(f'Hello, {name}')
+    password = os.getenv("password".upper())
```

Metrics

```
{ "original_lines": 3, "improved_lines": 6, "complexity_reduction": -72 }
```

input/test3.py (test)

Issues

- input/test3.py:1:C0114 Missing module docstring
- input/test3.py:1:C0116 Missing function or method docstring
- input/test3.py:2:C0415 Import outside toplevel (requests)
- input/test3.py:3:W3101 Missing timeout argument for method 'requests.get' can cause your program to hang indefinitely
- input/test3.py:5:R1705 Unnecessary "elif" after "return", remove the leading "el" from "elif"

- input/test3.py:10:W0719 Raising too general exception: Exception
- input/test3.py:1:R1710 Either all return statements in a function should return an expression, or none of them should.
- input/test3.py:B113:MEDIUM:Call to requests without timeout
- Complexity for input/test3.py: [Function(name='fetch_data_from_api', lineno=1, col_offset=0, endline=10, is_method=False, classname=None, closures=[], complexity=3)]
- Performance profile for input/test3.py: 0.06s

Diff

```

---
+++
@@ -1,10 +1,13 @@
-def fetch_data_from_api(url, api_key="abc123"):
+"""Module docstring"""
+
+def fetch_data_from_api(url, api_key = os.getenv("api_key".upper())):
+    """Docstring for fetch_data_from_api"""
     import requests
-    response = requests.get(url + "?key=" + api_key)
+    response = requests.get(url + '?key=' + api_key)
     unused_data = response.json()
     if response.status_code == 200:
         return response.json()
     elif response.status_code == 404:
-        print("Error: Resource not found")
+        print('Error: Resource not found')
     else:
-        raise Exception("API request failed with status: " + str(response.status_code))
+        raise Exception('API request failed with status: ' + str(response.status_code))

```

Metrics

```
{ "original_lines": 10, "improved_lines": 13, "complexity_reduction": -90 }
```

input/test3.js (test)

Issues

- ESLint error: [Errno 2] No such file or directory: 'eslint'
- Performance profile for input/test3.js: 0.00s

Diff

Metrics

```
{ "original_lines": 4, "improved_lines": 4, "complexity_reduction": -1 }
```

input/test2.py (test)

Issues

- input/test2.py:1:C0114 Missing module docstring
- input/test2.py:1:C0116 Missing function or method docstring
- input/test2.py:3:W0612 Unused variable
'very_long_variable_name_to_trigger_line_length_issue'
- input/test2.py:6:C0116 Missing function or method docstring
- Complexity for input/test2.py: [Function(name='calculate_sum', lineno=1, col_offset=0, endline=4, is_method=False, classname=None, closures=[], complexity=1), Function(name='greet_user', lineno=6, col_offset=0, endline=7, is_method=False, classname=None, closures=[], complexity=1)]
- Performance profile for input/test2.py: 0.06s

Diff

```
---  
+++  
@@ -1,7 +1,11 @@  
+"""Module docstring"""  
+  
+ def calculate_sum(a, b):  
+     """Docstring for calculate_sum"""  
+     result = a + b  
+     very_long_variable_name_to_trigger_line_length_issue = 42  
+     return result  
  
+ def greet_user(name):  
-     print("Hello, " + name + ", welcome!")  
+     """Docstring for greet_user"""  
+     print(f'Hello, {name}, welcome!')
```

Metrics

```
{ "original_lines": 7, "improved_lines": 11, "complexity_reduction": -92 }
```

input/tests/test_code.py (test)

Issues

- input/tests/test_code.py:6:C0304 Final newline missing

- input/tests/test_code.py:1:C0114 Missing module docstring
- input/tests/test_code.py:5:C0116 Missing function or method docstring
- input/tests/test_code.py:2:W0611 Unused import pytest
- input/tests/test_code.py:B101:LOW:Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.
- Complexity for input/tests/test_code.py: [Function(name='test_greet', lineno=5, col_offset=0, endline=5, is_method=False, classname=None, closures=[], complexity=2)]
- Performance profile for input/tests/test_code.py: 0.06s

Diff

```

- - -
+++
@@ -1,6 +1,7 @@
-# input/tests/test_code.py
+"""Module docstring"""
import pytest
from input.test import greet

def test_greet():
-     assert greet("World") is None # Print-based function
+     """Docstring for test_greet"""
+     assert greet('World') is None

```

Metrics

```
{ "original_lines": 6, "improved_lines": 7, "complexity_reduction": -8 }
```