Coverage Testing Report

GitHub Repository URL: https://github.com/Sean-O-99/SoftwareTechAssign.git

The testing report should focus solely on testing all the self-defined functions related to the five required features. There is no need to test the GUI components. Therefore, it is essential to decouple your code and separate the logic from the GUI-related code.

You should perform statement coverage testing and branch coverage testing. For each type, provide a description and an analysis explaining how you evaluated the coverage.

1. Test Summary

Tested Functions	Test Functions
on_search	<pre>test_on_search_valid() test_on_search_valid_empty()</pre>
on_cell_click	test_on_cell_click_valid()
clear_filters()	test_clear_filters_valid()
apply_filters()	<pre>apply_filters_valid() apply_filters_invalid()</pre>
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2. Statement Coverage Test

2.1 Description

Explain how you designed the test cases (i.e., test all functions.py) to reach 100% statement coverage.

2.2 Testing Results

You can use the following command to run the statement coverage test and generate the report in the terminal. Afterward, include a screenshot of the report.

You must provide the test_all_functions.py file, which contains all test functions, otherwise pytest will not be able to execute the tests.

```
pytest --cov=all_functions --cov-report=term
```

Note: In the command above, the file/module all_functions does not include the .py extension. all_functions.py should contain all the tested functions related to the five required features.

3. Branch Coverage Test

3.1 Description

Explain how you designed the test cases (i.e., test_all_functions.py) to reach 100% branch coverage.

3.2 Testing Results

You can use the following command to run the branch coverage test and generate the report in the terminal. Afterward, include a screenshot of the report.

You must provide the test_all_functions.py file, which contains all test functions, otherwise pytest will not be able to execute the tests.

```
pytest --cov=all_functions --cov-branch --cov-report=term
```

Note: In the command above, the file/module all_functions does not include the .py extension. all_functions.py should contain all the tested functions related to the five required features.