

Final Report on testing implementation of other group members

Testing File: *DataReconcileTestWZ.java*

Tested by: *Wang Zhao (1005460)*

Mismatch function by: *Tran Nguyen Bao Long (1005227) – Github ID: TNBL265*

https://github.com/TNBL265/50003_Software_Testing

Duplicated Rows

The implemented code by Long fails for the test function “DataReconcile.findMismatches()”. Using fault-based testing technique and applying parameterised testing method, I have discovered a potential bug in the code.

The function “DataReconcile.findMismatches()” checks that in the case where a file has duplicated entries, and one of them matches the other file, it should return both the values as there exists a mismatch. In other words:

File	Entries
file1	"CustomerID#", "1"
file2	"CustomerID#", "2" "CustomerID#", "1"

This test fails as the implementation of code fails to check against the entire set of entries in the file. Instead, it only checks for the first occurrence of the unique entry.

Parameterized testing was used to test out the code and the full code can be found in *DataReconcileTestWZ.java*

Testing File: *mismatchTestWZ.java*

Tested by: *Wang Zhao (1005460)*

Mismatch function by: *Ernest Lim Wei Yu (1005234) – Github ID: Anteloped*

https://github.com/Anteloped/software_testing_esc

Duplicated Rows

The implemented code by Ernest fails for the test function “duplicateRow()”. Using fault-based testing technique, I have anticipated a potential bug in the code.

The function “duplicateRow()” checks that in the case where a file has duplicated entries, and one of them matches the other file, it should return false and write it into the mismatch file. In other words:

File	Entries
file1	1,2,3,4,5
file2	1,2,3,4,5 1,3,3,4,5

This test fails as the implementation of code fails to check against the entire set of entries in the file. Instead, it only checks for the first occurrence of the unique entry.

Switched Columns

The implemented code by Ernest fails for the test function “switchedColumns()”. Using fault-based testing technique, I have anticipated a potential bug in the code.

The function “switchedColumns()” checks that in the case where the file’s columns’ category is switched and the unique entries match, it should return true and not appear in the mismatch file. In other words:

File	Entries
file1	Customer ID#,Account No.,Currency,Type,Balance 1,2,3,4,5
file2	Balance,Currency,Type,Account No.,Customer ID# 5,4,3,2,1

This test fails as the implementation of code fails to check by the exact type of data as the implementation only checks by the order of each entry in csv file.