**A03 - JUnit Back-end Testing**

**Team-2**

**Need to add hyperlinks for these sections**

1. **Test Links Section:**

* Java source code <JavaSource.zip>
* Test Case Tables (xls) format <TestCasesExcelxls.zip>
* JaCoCo results <jacocoTestResults.zip>
* PIT Results <pitTestResults.zip>
* Excel test files <TestCasesExcelFiles.zip>
* Junit test files <JUnitTestCases.zip>

1. **Junit Report Section:**

# Section 1 –User:

## Section 1.1 – TestCaseTable:

[TestCasesExcelxls\UsersTest.xlsx](TestCasesExcelxls/UsersTest.xlsx) (hyperlink of the test case file)

Section 1.2 – JaCoCo Coverage Summary:

We have achieved 100% JaCoCo coverage.

Section 1.3 – Pit Test Results:

We have passed Pit Test with 90% mutators killed.

The coverage that we could not be covered for PIT mutation was because of the following Mutators surviving-

1. **Removed conditional – replaced equality check with true – SURVIVED**
2. **Substituted 0 with 1**

# Section 2 –UsersErrorMsgs:

## Section 1.1 – TestCaseTable:

[TestCasesExcelxls\UsersTest.xlsx](TestCasesExcelxls/UsersTest.xlsx) (hyperlink of the test case file)

Section 1.2 – JaCoCo Coverage Summary:

We have achieved 100% JaCoCo coverage.

Section 1.3 – Pit Test Results:

We have passed Pit Test with 96% mutators killed.

The coverage couldn’t reach because of the following **allowable Exceptions –**

1. **Equal to less or Equal**
2. **Not equal to greater than**

Since these are allowable exceptions PIT coverage cannot reach 100%.