

# SOEN 6011- Software Engineering Processes (Summer 2016) SmarTech-Group 10

# Assignment 4 – Test Report for JUnit Tests On "Tic-Tac-Toe"

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## 1. Purpose

Test Cases form a really important part of the document. If a software has to be developed, it is mandatory to have the test cases written for them. In Software Engineering, the test cases serve as a document which consists of all the conditions under which a tester would determine if the developed software satisfies its initial purpose In other words, a test cases document would comprise of a set of test data, expected results, preconditions and post conditions for a particular scenario.

#### 2. Test Cases

Project Name: Tic-Tac-Toe

#### 2.1 Test Case 1

Class	BoardTest.java
Test Type	Junit Test

Test Methods:	Test Results:
testGetTurnX()	PASS
testGetTurnO()	PASS
testGetSymbolX()	PASS
testGetSymbolO()	PASS

#### 2.2 Test Case 2

Class	GameTest.java
Test Type	Junit Test

Test Methods:	Test Results:
testFlag()	PASS
testButtonSet()	PASS

#### 2.3 Test Case 3

Class	PlayerDetailsTest.java
Test Type	Junit Test

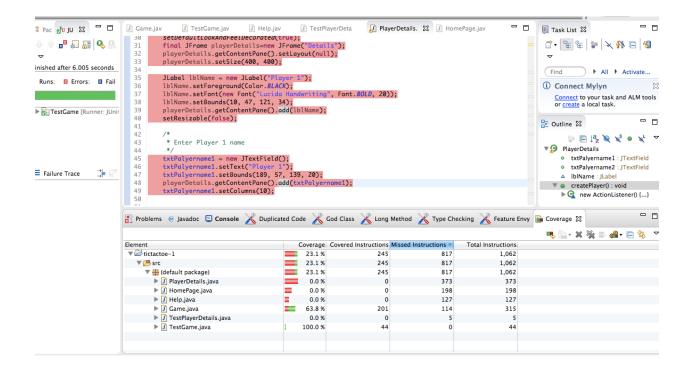
Test Methods:	Test Results:
testIsPlayer1Null()	PASS
testIsPlayer2Null()	PASS

## 3. Coverage Data

EclEmma is a plug-in that provides code coverage information report and gives trace information related to test cases. The reason why we have used EclEmma is that although the existing test cases verify the correctness of our code, there is still no guarantee that the entire base code is actually tested. Hence tools such as EclEmma determine the portion of the code that was actually tested by the test cases along with the untested portion of the code.

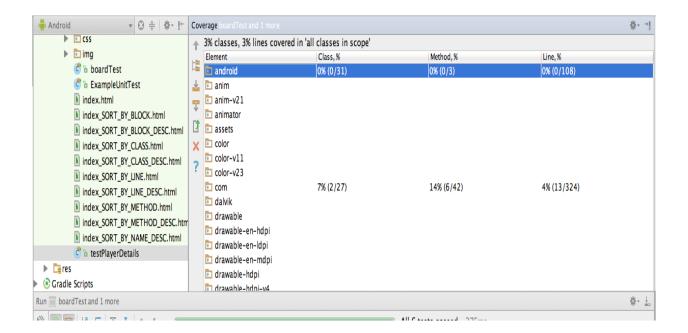
#### 3.1 Deliverable 1

In deliverable 1, we have used EclEmma coverage tool in order to collect coverage information. Following figure shows all the coverage information for deliverable 1 which contains coverage, covered instructions, missed instruction and total instruction.



#### 3.2 Deliverable 2

In deliverable 2, we have used Android Studio in order to generate coverage report. There is an inbuilt option Generate Coverage Report in analyze menu.



## 4. References

- [1] Ableson, W. Frank., Sen, Robi., King, Chris,. Android in Action 2011.
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- [5] Pressman Toy Corporation. Tic tac toe. 1978.