Junit Test Summary Report for Teammates web app

Test Requirements

Requirement Id	001
Requirement Name	Login user
Description	The user will be able to login successfully into his account after successful registration
Created On	22/09/2020
Created By	Haider

Requirement Id	002
Requirement Name	Features for user
Description	Different features included in teammates webapp that includes • Feedback • Visibility • Control • Reports and Statistics • Different question types and reuse past questions
Created On	22/09/2020
Created By	Haider

Requirement Id	003
Requirement Name	Terms
Description	Different terms that are provided to the users for their support.
Created On	22/09/2020
Created By	Haider

Test Cases technique used

I have used the blackbox testing technique mainly the decision table testing to test the features.

Test Casees

TCID	Objective	Prerequisite	Test Data	Test Steps	Expected Result	Actual Result	Status	Remarks	
001	To login the registered user successfully	The user should be registered	User account data , email and password	• Enter the registered email and	Login successful	Login successful	passed	pass	

					passwo rd					

TCI D	Objecti ve	Prerequisi te	Test Data	Test Steps	Expected Result	Actual Result	Statu s	Remar ks	
002	To check all the feature s	Participan t should have a registered account either a student account or an instructor account.	User account data , email and passwor d, feedbac k for the student s	• Enter the register ed email and passwor d • No. of register ed particip ants	All feature passed successfu lly	Features passed successfu lly	passe d	pass	

TCI D	Objectiv e	Prerequisit e	Test Data	Test Steps	Expecte d Result	Actual Result	Status	Remark s	
003	To fully facilitate the registere d user by terms feature	The user should be registered	User account data , email and passwor d , user queries and feedbac k	• Enter the register ed email and passwor d	success	succes s	passe d	pass	

TCI D	Objectiv e	Prerequisit e	Test Data	Test Steps	Expecte d Result	Actual Result	Status	Remark s	
004	To check for the Home button	Any user who wanted to know about the teammate.	Informatio n provided at the Home page	• Click the home page butto n	success	succes s	passe d	pass	

Test Defects

Defect Id	005
Summary	Failed login attempt
Severity	high
Detected By	haider
Detected On	22-09-2020
Status	removed
Priority	high
Linked Test Case	001
Linked Requirement	001
Root Cause	Mismatch of password or the wrong password entered by the user.

JUNIT Test Cases with the coverage graphs

Top window: eclipse-workspace - teammates/src/main/java/teammates/common/datatransfer/FeedbackParticipantTypeTest.java - Eclipse IDE

```
33        {
34            assertEquals(giver,giver_expected);
35        }
36        else
37            if(giver!=giver_expected)
38            {
39                assertNotEquals(giver,giver_expected);
40            }
41
42    }
43
44⊖    @Test
45    final void testIsValidRecipient() {
46
47        int rec_expected=0;
48        int rec=1;
49
50        if(rec==rec_expected)
51            {
52                assertEquals(rec,rec_expected);
53            }
54        else
55            if(rec!=rec_expected)
56            {
57                assertNotEquals(rec,rec_expected);
58            }
59
60    }
61
62⊖    @Test
63    final void testIsValidViewer() {
```

Bottom window: eclipse-workspace - teammates/src/test/java/teammates/test/cases/BaseTestCase.java - Eclipse IDE

```
1   package teammates.test.cases;
2
3⊖  import java.io.IOException;
4
5   import java.lang.reflect.Method;
6   import static org.junit.jupiter.api.Assertions.*;
7
8   import org.junit.Assert;
9   import org.junit.AfterClass;
10  import org.junit.BeforeClass;
11
12  import teammates.common.datatransfer.DataBundle;
13  import teammates.common.util.FieldValidator;
14  import teammates.common.util.JsonUtils;
15  import teammates.test.driver.FileHelper;
16  import teammates.test.driver.TestProperties;
17
18⊖  /**
19   * Base class for all test cases.
20   */
21  public class BaseTestCase {
22
23⊖      /**
24       * Test Segment divider. Used to divide a test case into logical sections.
25       * The weird name is for easy spotting.
26       *
27       * @param description
28       *            of the logical section. This will be printed.
29       */
30      // CHECKSTYLE.OFF:AbbreviationAsWordInName|MethodName the weird name is for easy spotting.
31⊖      public static void _____TS(String description) {
32          print("   * " + description);
```

Console output (bottom):
```
denormalizedAveragePerceived:[116, 119, 125]
                            [213, 217, 229]
                            [310, 316, 334]
```

File Edit Source Refactor Navigate Search Project Run Window Help

Package Explorer | JUnit

Finished after 0.288 seconds

Runs: 3/3   Errors: 0   Failures: 1

AccountsLogicTest [Runner: JUnit 5] (0.089 s)
    testDeleteAccountCascade() (0.044 s)
    testGetAccount() (0.027 s)
    testDowngradeInstructorToStudentCascade() (0.016 s)

Failure Trace

org.opentest4j.AssertionFailedError: expected: <oop> but was: <pop
    at teammates.logic.core.AccountsLogicTest.testGetAccount(Account
    at java.util.ArrayList.forEach(Unknown Source)
    at java.util.ArrayList.forEach(Unknown Source)

DataBundle.java   BoundaryVal...   BaseTestCase...   AccountsLogi...   AccountsLogi...   BaseSearchTe...

```java
1  package teammates.logic.core;
2
3  import static org.junit.jupiter.api.Assertions.*;
6
7  class AccountsLogicTest {
8
9      @Test
10     final void testGetAccount() {
11         String password="oop";
12         String passwordo="pop";
13         if(password!=null)
14         {
15             assertEquals(password,passwordo);
16         }
17         else
18         {
19             assertNotEquals(password,passwordo);
20         }
21
22     }
23
24     @Test
25     final void testDowngradeInstructorToStudentCascade() {
26
27     }
28
29     @Test
30     final void testDeleteAccountCascade() {
31         int account = 1 ;
32         if(account!=0)
33         {
34             assertNotNull(account);
```

Outline
    teammates.logic.core
    AccountsLogicTest
        testGetAccount() : void
        testDowngradeInstructorToStudentCascade
        testDeleteAccountCascade() : void

Task List
Find   All Activate...

Problems   Javadoc   Declaration   Search   Console   Coverage

AccountsLogicTest (Sep 25, 2020 8:21:49 PM)

Element	Coverage	Covered Instructions	Missed Instruct...	Total Instructio...
FeedbackResponsesData.java	0.0 %	0	15	15
FeedbackSessionData.java	0.0 %	0	155	155
FeedbackSessionPublishStatu	0.0 %	0	24	24
FeedbackSessionsData.java	0.0 %	0	15	15
FeedbackSessionStatsData.ja	0.0 %	0	15	15
FeedbackSessionSubmissionS	0.0 %	0	54	54

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9/25/2020

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Package Explorer | JUnit

Finished after 0.189 seconds

Runs: 3/3   Errors: 0   Failures: 1

AccountsLogicTest [Runner: JUnit 5] (0.003 s)
    testDeleteAccountCascade() (0.001 s)
    testGetAccount() (0.002 s)
    testDowngradeInstructorToStudentCascade() (0.000 s)

Failure Trace

org.opentest4j.AssertionFailedError: expected: <oop> but was: <pop
    at teammates.logic.core.AccountsLogicTest.testGetAccount(Account
    at java.util.ArrayList.forEach(Unknown Source)
    at java.util.ArrayList.forEach(Unknown Source)

DataBundle.java   BoundaryVal...   BaseTestCase...   AccountsLogi...   AccountsLogi...   BaseSearchTe...

```java
1  package teammates.logic.core;
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12         String passwordo="pop";
13         if(password!=null)
14         {
15             assertEquals(password,passwordo);
16         }
17         else
18         {
19             assertNotEquals(password,passwordo);
20         }
21
22     }
23
24     @Test
25     final void testDowngradeInstructorToStudentCascade() {
26
27     }
28
29     @Test
30     final void testDeleteAccountCascade() {
31         int account = 1 ;
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        testDeleteAccountCascade() : void

Task List
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Problems   Javadoc   Declaration   Search   Console   Coverage

Element	Coverage	Covered Instructions	Missed Instruct...	Total Instructio...

Writable   Smart Insert   10 : 34 : 191

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9/25/2020

Challenging Part

Complete testing is impossible and the teammates project is a big project so its impossible to test each and every aspect however I have covered the main feature functionalities of the Teammates webapp.