

Unit 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 <ul style="list-style-type: none">• 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 Cases

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	<ul style="list-style-type: none">• Enter the registered email and	Login successful	Login successful	passed	pass	

				password					
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TCID	Objective	Prerequisite	Test Data	Test Steps	Expected Result	Actual Result	Status	Remarks	
002	To check all the features	Participant should have a registered account either a student account or an instructor account.	User account data , email and password, feedback for the students	<ul style="list-style-type: none"> Enter the registered email and password No. of registered participants 	All feature passed successfully	Features passed successfully	passed	pass	

TCID	Objective	Prerequisite	Test Data	Test Steps	Expected Result	Actual Result	Status	Remarks	
003	To fully facilitate the registered user by terms feature	The user should be registered	User account data , email and password , user queries and feedback	<ul style="list-style-type: none"> Enter the registered email and password 	success	success	passed	pass	

TCID	Objective	Prerequisite	Test Data	Test Steps	Expected Result	Actual Result	Status	Remarks	
004	To check for the Home button	Any user who wanted to know about the teammate.	Information provided at the Home page	<ul style="list-style-type: none"> Click the home page button 	success	success	passed	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

The screenshot displays the Eclipse IDE interface with the following components:

- Package Explorer:** Shows the project structure with 'JUnit' selected.
- JUnit Runner:** Displays 'Finished after 0.389 seconds', 'Runs: 2/2', 'Errors: 0', and 'Failures: 0'.
- Code Editor:** Shows the source code of `AccountCreateRequestTest.java`. The code includes two test methods: `test()` and `passwordCheck()`. The `test()` method uses `assertNull(email)` and `assertNotNull(email)` assertions. The `passwordCheck()` method uses `assertEquals(exp_pass, pass)` assertion.
- Task List:** Shows a list of tasks, including 'test() : void' and 'passwordCheck() : void'.
- Coverage View:** Displays a table of coverage data for the test run.

Element	Coverage	Covered Instructions	Missed Instructions	Total Instructions
> SendEmailRequest.java	0.0 %	0	69	69
> StudentProfileUpdateRequest.java	0.0 %	0	53	53
> StudentEnrollRequest.java	0.0 %	0	187	187
> StudentUpdateRequest.java	0.0 %	0	105	105
> AccountCreateRequestTest.java	68.4 %	26	12	38
> AccountCreateRequestTest	68.4 %	26	12	38

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

File Edit Source Refactor Navigate Search Project Run Window Help

Package Explorer JUnit

Finished after 0.464 seconds
Runs: 10/10 Errors: 0 Failures: 0

FeedbackParticipantTypeTest (Runner: JUnit 5) (0.158 s)

```

33 {
34     assertEquals(giver, giver_expected);
35 }
36 else
37 {
38     assertEquals(giver, giver_expected);
39 }
40 }
41 }
42 }
43 }
44 @Test
45 final void testIsValidRecipient() {
46     int rec_expected=0;
47     int rec=1;
48 }
49 if(rec==rec_expected)
50 {
51     assertEquals(rec, rec_expected);
52 }
53 else
54 {
55     assertEquals(rec, rec_expected);
56 }
57 }
58 }
59 }
60 }
61 @Test
62 final void testIsValidViewer() {
63 }
64 }

```

Outline

- teammates.common.datatransfer
 - FeedbackParticipantTypeTest
 - testFeedbackParticipantType() : void
 - testValidGiver() : void
 - testValidRecipient() : void
 - testValidViewer() : void
 - testTeam() : void
 - testToDisplayGiverName() : void
 - testToDisplayRecipientName() : void
 - testToDisplayFormString() : void
 - testGetDisplayNameGiver() : void
 - testGetDisplayNameRecipient() : void

Problems Javadoc Declaration Search Console Coverage

FeedbackParticipantTypeTest (Sep 25, 2020 1:53:43 PM)

Element	Coverage	Covered Instruct...	Missed Instruct...	Total Instruct...
> StudentSearchResultBundle.java	0.0 %	0	13	13
> TeamEvalResult.java	0.0 %	0	1,083	1,083
> UserInfo.java	0.0 %	0	23	23
> UserRole.java	0.0 %	0	34	34
> FeedbackParticipantTypeTest	78.1 %	50	14	64
> FeedbackParticipantTypeTest	78.1 %	50	14	64

Type here to search

1:55 PM 9/25/2020

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

File Edit Source Refactor Navigate Search Project Run Window Help

Package Explorer JUnit

Finished after 0.172 seconds
Runs: 1/1 Errors: 0 Failures: 0

BoundaryValueAnalysisTest (Runner: JUnit 5) (0.000 s)

```

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);
33     }
34 }

```

Outline

- teammates.test.cases
 - BaseTestCase
 - ____TS(String) : void
 - printTestClassHeader() : void
 - printTestClassFooter() : void
 - printString() : void
 - getTestDataFolder() : String
 - getTypicalDataBundle() : DataBundle
 - loadDataBundle(String) : DataBundle
 - ignorePossibleException() : void
 - invokeMethod(Class<?>, String, Class<?>) : Object
 - getPopulatedErrorMessage(String, String) : String

Problems Javadoc Declaration Search Console Coverage

<terminated> TeamEvalResultCalculations [Java Application] C:\Program Files\Java\jre1.8.0_241\bin\javaw.exe (Sep 22, 2020 7:49:25 PM - 7:49:41 PM)

```

denormalizedAveragePerceived: [116, 119, 125]
[213, 217, 229]
[310, 316, 334]

```

Type here to search

7:49 PM 9/22/2020

eclipse-workspace - teammates/src/main/java/teammates/logic/core/AccountsLogicTest.java - Eclipse IDE

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(AccountsLogicTest.java:12)
 at java.util.ArrayList.forEach(Unknown Source)
 at java.util.ArrayList.forEach(Unknown Source)

```

1 package teammates.logic.core;
2
3 import static org.junit.jupiter.api.Assertions.*;
4
5 class AccountsLogicTest {
6
7     @Test
8     final void testGetAccount() {
9         String password = "oop";
10        String password = "pop";
11        if (password != null) {
12            assertEquals(password, password);
13        } else {
14            assertEquals(password, password);
15        }
16    }
17
18    @Test
19    final void testDowngradeInstructorToStudentCascade() {
20
21    }
22
23    @Test
24    final void testDeleteAccountCascade() {
25        int account = 1;
26        if (account != 0) {
27            assertEquals(account, account);
28        }
29    }
30
31 }

```

Problems Javadoc Declaration Search Console Coverage

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

Element	Coverage	Covered Instructions	Missed Instructions	Total Instructions
FeedbackResponsesData.java	0.0%	0	15	15
FeedbackSessionData.java	0.0%	0	155	155
FeedbackSessionPublicData.java	0.0%	0	24	24
FeedbackSessionData.java	0.0%	0	15	15
FeedbackSessionStatsData.java	0.0%	0	15	15
FeedbackSessionSubmissions.java	0.0%	0	54	54

Task List

Outline

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

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8:23 PM
9/25/2020

eclipse-workspace - teammates/src/main/java/teammates/logic/core/AccountsLogicTest.java - Eclipse IDE

File Edit Source Refactor Navigate Search Project Run Window Help

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(AccountsLogicTest.java:12)
 at java.util.ArrayList.forEach(Unknown Source)
 at java.util.ArrayList.forEach(Unknown Source)

```

1 package teammates.logic.core;
2
3 import static org.junit.jupiter.api.Assertions.*;
4
5 class AccountsLogicTest {
6
7     @Test
8     final void testGetAccount() {
9         String password = "oop";
10        String password = "pop";
11        if (password != null) {
12            assertEquals(password, password);
13        } else {
14            assertEquals(password, password);
15        }
16    }
17
18    @Test
19    final void testDowngradeInstructorToStudentCascade() {
20
21    }
22
23    @Test
24    final void testDeleteAccountCascade() {
25        int account = 1;
26        if (account != 0) {
27            assertEquals(account, account);
28        }
29    }
30
31 }

```

Problems Javadoc Declaration Search Console Coverage

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

Element	Coverage	Covered Instructions	Missed Instructions	Total Instructions
FeedbackResponsesData.java	0.0%	0	15	15
FeedbackSessionData.java	0.0%	0	155	155
FeedbackSessionPublicData.java	0.0%	0	24	24
FeedbackSessionData.java	0.0%	0	15	15
FeedbackSessionStatsData.java	0.0%	0	15	15
FeedbackSessionSubmissions.java	0.0%	0	54	54

Task List

Outline

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

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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.