

Testify Test Plan

A. Identification and classification:

Test Case 1

System: Multiple Choice Questions

Create question

Severity: 1

B. Instructions:

1. Execute the instructor JAR
2. Click create test
3. Create a new Test
3. Create a multiple choice question
4. Fill in all fields

C. Expected result:

Choice of language should have been disabled

When entering choices each should appear only once

A. Identification and classification:

Test Case 2

System: Question deletion

Delete question

Severity: 2

B. Instructions:

1. Execute the instructor JAR
2. Click create test
3. Create a new test
4. Create a question of any type
5. Create a second one so that there are two
6. Delete the second one

C. Expected result:

The only question visible should be question 1

A. Identification and classification:

Test Case 3

System: Multiple Choice Questions

Delete a choice of answer

Severity: 2

B. Instructions:

1. Execute the instructor JAR
2. Click create test
3. Create a new Test
3. Create a multiple choice question
4. Fill in all fields
5. Delete one of the answer choices

C. Expected result:

The choice that you selected should be deleted

A. Identification and classification:

Test Case 4

System: Question Creation

Create question

Severity: 1

B. Instructions:

1. Execute the instructor JAR
2. Click create test
3. Create a new Test
3. Create a multiple choice question
4. Fill in all fields
5. Create a new question and fill in all fields, make sure you don't make them the same
6. Cycle back and forth between questions

C. Expected result:

The information should be consistent with what you had previously entered.

A. Identification and classification:

Test Case 5

System: Short answer question

Create question

Severity: 1

B. Instructions:

1. Execute the instructor JAR
2. Click create test
3. Create a new Test
3. Create a short answer question
4. Fill in all fields

C. Expected result:

A new short answer question should be created.

A. Identification and classification:

Test Case 6

System: Programming question

Create question

Severity: 1

B. Instructions:

1. Execute the instructor JAR
2. Click create test
3. Create a new Test
3. Create a programming question
4. Fill in all fields

C. Expected result:

Choices should be disabled, language and file should be enabled. A new programming question should be created.

A. Identification and classification:

Test Case 7

System: Create Test

Cycling between questions

Severity: 2

B. Instructions:

1. Execute the instructor JAR
2. Click create test
3. Create a new Test
3. Create several questions
4. Fill in all fields
5. Cycle back and forth between them at random using previous and next

C. Expected result:

It should progress in a logical fashion, ie the next of the final question is not the first question, 3 is not the prev of 2, etc

A. Identification and classification:

Test Case 8

System: Create Test

Create new test without saving

Severity: 2

B. Instructions:

1. Execute the instructor JAR
2. Click create test
3. Create a new Test
3. Create a few questions
4. Create a new test without saving the previous

C. Expected result:

New blank test should appear, old one should not be accessible

A. Identification and classification:

Test Case 9

System: Create test

Loading and saving tests

Severity: 1

B. Instructions:

1. Execute the instructor JAR
2. Click create test
3. Create a new Test
3. Create a few questions
4. Save the test
5. Close window
6. Load the test you just created.

C. Expected result:

The test should display with questions filled in.

A. Identification and classification:

Test Case 10

System: Create Test

Point assignment

Severity: 2

B. Instructions:

1. Execute the instructor JAR
2. Click create test
3. Assign a point value to a question.

C. Expected result:

The question should show the specified point value and does not affect the other questions' point values.

A. Identification and classification:

Test Case 11

System: Create Test

Invalid point assignment

Severity: 2

B. Instructions:

1. Execute the instructor JAR
2. Click create test
3. Assign a negative point value to a question.

C. Expected result:

The question should inform the user it is not a valid point assignment.

A. Identification and classification:

Test Case 12

System: Create Test

Invalid point assignment

Severity: 2

B. Instructions:

1. Execute the instructor JAR
2. Click create test
3. Assign a point value of 0 to a question.

C. Expected result:

The question should inform the user it is not a valid point assignment.

A. Identification and classification:

Test Case 13

System: Create Test

Invalid point assignment

Severity: 2

B. Instructions:

1. Execute the instructor JAR
2. Click create test
3. Type in non numerical value into point value assignment

C. Expected result:

The question should inform the user it is not a valid point assignment.

A. Identification and classification:

Test Case 14

System: Create Test

Invalid point assignment

Severity: 2

B. Instructions:

1. Execute the instructor JAR
2. Click create test
3. Leave point value assignment blank.

C. Expected result:

The question should inform the user it is not a valid point assignment.

A. Identification and classification:

Test Case 15

System: Properties

Create question

Severity: 1

B. Instructions:

1. Execute the JAR
2. Click create test
3. Create a new Test
4. Check the properties
5. Change a property, end time of test

C. Expected result:

Properties of test should now be changed.

A. Identification and classification:

Test Case 16

System: Properties

Create question - invalid property

Severity: 1

B. Instructions:

1. Execute the JAR
2. Click create test
3. Create a new Test
4. Check the properties
5. Change a property, end time of test to a date in the past.

C. Expected result:

System should inform user they cannot have a test be due in the past

A. Identification and classification:

Test Case 17

System: Properties

Create question - invalid property

Severity: 1

B. Instructions:

1. Execute the JAR
2. Click create test

3. Create a new Test
4. Check the properties
5. Change a property, end time of test to an invalid date

C. Expected result:

System should inform user they have entered an invalid date

A. Identification and classification:

Test Case 18

System: Edit Test

Valid test

Severity: 1

B. Instructions:

1. Start the instructor client
2. Press the Edit Test button
3. Select a valid test you created earlier

C. Expected result:

1. The test should open up in a screen that looks similar to Create test.

A. Identification and classification:

Test Case 19

System: Edit Test

Invalid test

Severity: 2

B. Instructions:

1. Start the instructor client
2. Press the Edit Test button
3. Select an invalid test

C. Expected result:

1. The program should tell you the test cannot be opened

A. Identification and classification:

Test Case 20

System: Edit Test

Null test

Severity: 2

B. Instructions:

1. Start the instructor client
2. Press the Edit Test button
3. Don't select a test

C. Expected result:

1. The program should tell you no test is available

A. Identification and classification:

Test Case 21

System: Edit Test

Add multiple choice question

Severity: 1

B. Instructions:

1. Start the instructor client
2. Press the Edit Test button
3. Select a valid test
4. add a multiple choice question
5. save the test

C. Expected result:

1. The program should save the test and the question should save

A. Identification and classification:

Test Case 22

System: Edit Test

Add free response question

Severity: 1

B. Instructions:

1. Start the instructor client
2. Press the Edit Test button
3. Select a valid test
4. add a free response question
5. save the test

C. Expected result:

1. The program should save the test and the question should save

A. Identification and classification:

Test Case 23

System: Edit Test

Add Programming question

Severity: 1

B. Instructions:

1. Start the instructor client
2. Press the Edit Test button
3. Select a valid test
4. add a programming question
5. save the test

C. Expected result:

1. The program should save the test and the question should save

A. Identification and classification:

Test Case 24

System: Edit Test

Add free response question,multiple choice question, and a programming question

Severity: 1

B. Instructions:

1. Start the instructor client
2. Press the Edit Test button
3. Select a valid test
4. add a free response question,multiple choice question, and a programming question
5. save the test

C. Expected result:

1. The program should save the test and the questions should save

A. Identification and classification:

Test Case 25

System: Review Test

Valid student test

Severity: 1

B. Instructions:

1. Start the instructor client
2. Press the open test button
3. Select a valid student test

C. Expected result:

1. The program should open the students test
2. Their answers should be visible.
3. There should be some way to compare with the key

A. Identification and classification:

Test Case 26

System: Review Test

Invalid student test

Severity: 2

B. Instructions:

1. Start the instructor client
2. Press the open test button
3. Select an invalid student test

C. Expected result:

1. The program should tell you the test cannot be opened

A. Identification and classification:

Test Case 27

System: Review Test

Null student test

Severity: 2

B. Instructions:

1. Start the instructor client
2. Press the open test button
3. Do not select a students test

C. Expected result:

1. The program should tell you to select a test

A. Identification and classification:

Test Case 28

System: Open instructors test

Valid instructors test

Severity: 1

B. Instructions:

1. Start the Student client
2. Press the open test button

3. Select a valid instructor client

C. Expected result:

1. The program should open the test
2. the program should let you take the test

A. Identification and classification:

Test Case 29

System: Open instructors test

Invalid instructors test

Severity: 2

B. Instructions:

1. Start the Student client
2. Press the open test button
3. Select an invalid instructor client

C. Expected result:

1. The program should tell you it can't open the test

A. Identification and classification:

Test Case 30

System: Open instructors test

Null instructors test

Severity: 2

B. Instructions:

1. Start the Student client
2. Press the open test button
3. Do not select an instructor's test

C. Expected result:

1. The program should tell you to select a test

A. Identification and classification:

Test Case 31

System: Instructor Client

Navigating through the user interface

Severity: 2

B. Instructions:

1. Run the TestifyBuggedInstructor.jar
2. Click on one of the buttons available
3. Click a button or a menu that brings user back to the main menu

C. Expected result:

1. The application should launch properly
2. The button can correctly navigate user from and back to the main (administrative) page

A. Identification and classification:

Test Case 32

System: Instructor Client

Trying to remove a question when no question is in the list

Severity: 2

B. Instructions:

1. Run the TestifyBuggedInstructor.jar
2. Click the “Remove” question button when the list of questions is empty

C. Expected result:

1. The application should launch properly.
2. The application should warn user that the list of questions is empty.

A. Identification and classification:

Test Case 33

System: Instructor Client

Editing a question

Severity: 1

B. Instructions:

1. Run the TestifyBuggedInstructor.jar, assuming there is at least 1 question
2. Select that question and click the “Edit” question button

C. Expected result:

1. The application should launch properly.
2. User is able to change the properties of the questions
3. Make sure the change is permanent (the old values are erased)

A. Identification and classification:

Test Case 34

System: Instructor Client

Editing a question, change the question to an invalid string

Severity: 2

B. Instructions:

1. Run the TestifyBuggedInstructor.jar, assuming there is at least 1 question
2. Select that question and click the “Edit” question button
3. Erase the current question leaving it as null.

C. Expected result:

1. The application should launch properly.
2. User is able to change the properties of the questions.
3. The application should warn user (now or later when saving the test) that a particular test question has invalid string.

A. Identification and classification:

Test Case 35

System: Instructor Client

Trying to edit a question when no question is in the list

Severity: 2

B. Instructions:

1. Run the TestifyBuggedInstructor.jar, assuming there is at least 1 question
2. Click the “Edit” question button when the list of questions is empty

C. Expected result:

1. The application should launch properly.
2. The application should warn user that the list of questions is empty.

A. Identification and classification:

Test Case 36

System: Instructor Client

Saving a test without any questions

Severity: 2

B. Instructions:

1. Run the TestifyBuggedInstructor.jar
2. Remove all questions
2. Click the "Save" test

C. Expected result:

1. The application should launch properly.
2. The application should warn user that the list of questions is empty.

A. Identification and classification:

Test Case 37

System: Student

Student wants to take a test - Boundary test

Severity: 2

B. Instructions:

1. Select the first or last test file from the directory and click it to take the test

C. Expected result:

1. The test should open up and you should see all the different questions

A. Identification and classification:

Test Case 38

System: Student

Student wants to skip a question and come back to it.

Severity: 1

B. Instructions:

1. Select a test to take and fill out half of the questions. Click next and then previous

C. Expected result:

1. User should be able to go back to the previous unanswered question and answer it

A. Identification and classification:

Test Case 39

System: Student

Student wants to submit a complete test.

Severity: 2

B. Instructions:

1. Select a test to take and open it. Click submit after completing all questions.

C. Expected result:

1. The test should be successfully saved under the specified directory.

A. Identification and classification:

Test Case 40

System: Student Client

Reopen test after submitting it

Severity: 2

B. Instructions:

1. Select a test to take and open it. Click submit after completing all questions and open it in the

saved directory.

C. Expected result:

1. System should not let user to be able to edit a submitted test.

A. Identification and classification:

Test Case 41

System: Student

Multiple choice question

Severity: 1

B. Instructions:

1. Select a test to take and open it. Click around the different options in a multiple choice question and save it.

C. Expected result:

1. It should only let you select one option at a time and be set as the active option when you open the saved test.

A. Identification and classification:

Test Case 42

System: Student Client

Free response

Severity: 3

B. Instructions:

1. Select a test to take and open it. Click and type in a free response box.

C. Expected result:

1. It should provide you with enough characters to answer the question and have some way to inform you of character max.

A. Identification and classification:

Test Case 43

System: Administer

Severity: 1

B. Instructions:

1. Select test data to view.

C. Expected result:

A list of students should appear.

A. Identification and classification:

Test Case 44

System: Administer

Severity: 1

B. Instructions:

1. Select test data to view. Then select a student from the list.

C. Expected result:

1. Once a user is selected, all of their test answers appear on screen.

A. Identification and classification:

Test Case 45

System: Administer

Invalid test data

Severity: 2

B. Instructions:

1. Select a file that doesn't contain test data.

C. Expected result:

1. It should inform the user that the selected file is invalid.

A. Identification and classification:

Test Case 46

System: Administer

Switching between students

Severity: 2

B. Instructions:

1. Select test data to view. Select a student from the list of students, then select another student from the list.

C. Expected result:

1. It should provide the answers that each student put in for each question in the test.

A. Identification and classification:

Test Case 47

System: Administer

Different number of questions on tests

Severity: 2

B. Instructions:

1. Select test form to view. Select a student from the list. Select a different test form with less questions to view. Select a student from the list.

C. Expected result:

1. It should only show data on questions related to the newest test form and not have any leftover data from the first test data opened.

A. Identification and classification:

Test Case 48

System: Administer

Switch between questions

Severity: 2

B. Instructions:

1. Select test data to view. Select a student. Go to the next question and then after go back to the previous question.

C. Expected result:

1. It should switch correctly between the question and answers that the student had for each question.

A. Identification and classification:

Test Case 49

System: Student client

Student sign in

Severity: 1

B. Instructions:

1. Start the Student client
2. Enter info into first and last name fields
3. Click the next button.

C. Expected result:

1. The program should advance to the next screen prompting the user to open a test file.

A. Identification and classification:

Test Case 50

System: Student client

Exit Button

Severity: 1

B. Instructions:

1. Start the Student client
2. Enter info into first and last name fields
3. Click the exit button.

C. Expected result:

1. The program should exit.

A. Identification and classification:

Test Case 51

System: Student client

First and Last Name Text Fields

Severity: 1

B. Instructions:

1. Start the Student client
2. Enter invalid info into first and last name fields

C. Expected result:

1. The program should tell the user if the user name is invalid.

A. Identification and classification:

Test Case 52

System: Student client

Editing Short Answer Prompt

Severity: 2

B. Instructions:

1. Click on the Text box for the question prompt and type

C. Expected result:

1. The program should not allow the user to edit the question.

A. Identification and classification:

Test Case 53

System: Student client

Short Answer Next Button

Severity: 1

B. Instructions:

1. Click on Next Button

C. Expected result:

1. Student will be able to move to next question.

A. Identification and classification:

Test Case 54

System: Student client

Short Answer Previous Button

Severity: 1

B. Instructions:

1. Click on Previous Button

C. Expected result:

1. Student will be able to move to previous question.

A. Identification and classification:

Test Case 55

System: Student client

Verify Test Save File Name

Severity: 2

B. Instructions:

1. Submit test

C. Expected result:

1. The file will be saved with the format firstname_lastname

A. Identification and classification:

Test Case 56

System: Student client

Previous button - boundary test

Severity: 2

B. Instructions:

1. On the first question, click the previous button.

C. Expected result:

1. Student should not be able to move to a previous question.

A. Identification and classification:

Test Case 57

System: Student client

Submit test

Severity: 1

B. Instructions:

1. Open a test and fill out all the questions
2. Submit Test

C. Expected result:

1. User should be directed to an exit screen.