

SOFTWARE TESTING

Lab 4 (Training Part)

COMP8117-1-R-2021S

LAB PARTNER

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##### Question 1. A woman fired a shot at a man with her gun but the man did not die. List the possible reasons for the man not dying

Solution:

The possible reasons that the man did not die can be

1. The woman firing the shot missed her mark
2. The woman hit the man but the shot was not fatal, i.e., she did not hit any vital organs.
3. The man was wearing a bulletproof jacket.
4. The woman was holding an artificial gun.
5. The man was already dead.

##### Question 2. List the defects/enhancements in the room you are in right now. [For example, there are dirty marks on the wall; the lighting could be better]

Solution:

1. Side tables for better storage
2. Dressing table for storing daily stuff.
3. More lightning fixtures for better lightening
4. Wall to be covered with PVC sheets for better control of moisture.
5. Attached washroom.

**Question 3.** **An alien meets you and it asks you to teach it how to brush its teeth. Assume that the alien has teeth exactly like yours and is as smart as you but it needs clear step-by-step instruction. List the steps. Be as detailed as you can. [Example: hold the toothpaste with your left hand; turn the cap anti-clockwise]**

Solution:

1. Pick the toothpaste from the right hand if you are right-handed otherwise pick it from the left hand.
2. For simplicity, we will be discussing steps for right-handed people.
3. With the other hand, rotate the knob in an anticlockwise direction.
4. Now put down the cap and hold the toothpaste in your left hand
5. Pick up your toothbrush from the right hand.
6. Squeeze the toothpaste, the toothpaste will come out, the toothpaste should cover about ½ of your toothbrush. Note, do not press too hard, start with the smallest pressure you can apply and gradually increase the pressure, and as soon as the toothpaste comes out, maintain that pressure.
7. Now, rinse your mouth once with water.
8. Now slide the toothbrush sideways in to and fro motion on the outer side of the teeth.
9. Clean the inside part of the teeth as well.
10. Do part 8-9 for a min of 3 minutes and a maximum of 5 minutes.
11. With the tongue cleaner, clean your tongue, by sliding it up and down.
12. When you are done rinse your mouth properly until all the froth is cleaned.
13. Close the toothpaste and keep both toothpaste and brush in the handle.

**Question 4. Hold a ballpoint pen. Identify the types of testing you would perform on it to make sure that it is of the highest quality.**

Solution:

Scenarios

1. Check the outer covering to make sure it does not break
2. Verify that you can hold the pen comfortably.
3. Verify the ink flows properly
4. Verify that refill can fit in the pen.
5. Verify that the pen can write in the same color all the time.
6. Verify the cap of the pen.

Test Cases:

1. Check the outer covering

For the plastic pen make sure that the plastic is good enough that it does not break easily by holding

For metal pens, make sure sure that the metal does not make any sound.

1. Verify that you can hold the pen comfortably.

Check that the pen has a grip

Hold the pen from the grip to check that your hand does not slip.

1. Verify the ink flows properly

Hold the pen.

Start writing the words and sentences.

The ink flow should be smooth and should not break.

1. Verify that refill can fit in the pen.

Open the pen.

Replace the refill

Close the pen, the refill should fit and the user should be able to write.

1. Verify that the pen can write in the same color all the time.

For a multicolored pen, change the color of the pen

Write words and sentences

Check if the color is the same for a particular ink.

1. Verify the cap of the pen.

Check that the cap of the pen is tight enough that it doesn’t fall off.

**Question 5. Similar to the Ballpoint Pen Test above, identify the types of testing you would perform on a mouse to make sure that it is of the highest quality.**

Solution

Scenarios

1. Verify the right and left click functions
2. Verify that the cursor moves along with the mouse and check the speed
3. Verify the double click function is working fine.
4. Check that mouse is comfortable to hold

Test Cases:

1. Verify the right and left click functions

Verify that right-click works and that we can select the folder or a file.

Verify that on left-click the propertied and related functions are displayed.

1. Verify that the cursor moves along with the mouse and check the speed

Verify that when you drag the mouse, the cursor is also moved and verify that the speed of the cursor is the same as the speed of dragging the mouse.

1. Verify the double click function is working fine.

Verify that on double-clicking the mouse we can go inside a folder and open up the file.

1. Check that mouse is comfortable to hold

Check the dimensions of the mouse and check that it is comfortable to hold. It should be within the range of the hand.

**Question 6. There is a simple program with the following items:**

* **Input Box A**
* **Input Box B**
* **ADD button**
* **Result Text Box [=A+B]**

**Identify all the test cases for the program**

Solution:

Scenario

1. Leave one input box empty
2. Leave both input boxes empty
3. Add the positive values in both input boxes and check the result
4. Add alphanumeric and special characters in input boxes.

Test Cases

1. Leave one input box empty
2. Add a positive value in input box B. and press the ADD button. The empty input box should automatically be considered as the value 0 and the result will be equal to the value in box B
3. Add a positive value in Input box A and press add button. The empty input box should automatically be considered as the value 0 and the result will be equal to the value in box A
4. Leave both input boxes empty
5. Leave both the input boxes empty, press the ADD button. The sum should be equal to zero.
6. Add the positive values in both input boxes and check the result

Randomly add the positive values in both the inputs.

Press the Add button.

The sum of both numbers should be displayed.

1. Add alphanumeric and special characters in input boxes.

Add alphabets and special characters in the input box. Line A-Z or a-z or @, #.,$%^&\*(), etc. anything other than numbers. Press ADD Button. An error message should be displayed saying that only positive integers are allowed.