

201803100110002

DOMS

Page No. 1/1

Date

/

/

Date: 15-12-2020Course: 030010517 CC12 Software Testing TechniquesInternal Evaluation: Case Analysis and Concept Mapping-3Name: Miloni Chetanbhai PatelEx. No.: 201803100110002Programme: TY BCA

Q.1 Write a detailed note on Acceptance Testing with any one example of your choice. The short note must cover Purpose, checklist of Testing Items, Analysis and Review of testing and its impact on the software delivery.

Solⁿ: - Acceptance Testing can be defined as a functional trial performed on product before it is launched into the market.

- It ensures the quality and design of the product are functional, durable and safe.

→ Purpose: To evaluate system's compliance with business requirements & verify it is ready to be delivered to end users.

201803100110002

DOMS

Page No.

Date

/ /

→ Checklist:

- Initialization of Project
- Planning of Test
- Designing of Acceptance Testing
- Acceptance testing execution
- Release Decisions
- Post Acceptance Testing Actions

→ Analysis & review of Test impact:

- It is one of the final stages of piece of software testing cycle & after occurs before a client, a customer accepts the new application and encourages close.
- It acts as form of initial quality control to identify problems & defects while they can still be corrected relatively painless & inexpensive.
- They are designed to replicate the anticipated real-life use of the product to verify that it is fully functional & complies with specification between customer & manufacturer.
- If the actual results match the expected results for each test case, the product will pass & be considered adequate. else it will be abandoned.

201803100110002
DOMS Page No. 1
Date / /

→ Types of Acceptance Testing:

- (UAT) - User Acceptance Testing
- Alpha Testing
- Beta Testing
- (BAT) - Business Acceptance Testing
- (CAT) - Contract Acceptance Testing

→ Example:

- Assuming that there is a software that tracks mobile in which an administrator administers mobile resources & it is web based application.
- It undergoes different kind of testing such as functional, integration, system etc.
- Here, the Acceptance testing comes into the picture, before deploying the software to the end user. Acceptance testing checks any last issues left.

201803/00110002

DOMS

Page No. 121

Date

Q.2 If content testing on url: <http://srimca.edu.in> has to be carried out which assertions of Selenium IDE would be most relevant and used? Give reason for using such assertions. Carry out content testing of the site covering any four different assertions / verifications using Selenium IDE. Put screen shot of such a test.

Solⁿ: List of Assertion:

1. Verify Title
2. assert Title
3. Verify Text
4. assert Text
5. Assert element present
6. Assert element not present
7. Verify Text

- In Testing, we used this test to enhance the user experience and understand the application or website.
- AssertText & Assert Title is used to test if the website Title & Text written in it are matching the expected value or not.
- Verify Element present & assert element present checks whether the expected element is present or not. Visa versa with verify Element not present & assert element not present.

Selenium IDE - Q2*

Project: Q2*

Tests + [Run current test Ctrl+R]

Search tests...

Command	Target	Value
1 open	/	
2 set window size	1053x908	
3 assert title	Shrimad Rajchandra Institute of Management and Computer Application	
4 verify title	Shrimad Rajchandra Institute of Management and Computer Application	
5 assert text	css=marquee-showing	La Net Team Software Solution Pvt Ltd company is coming for campus placement on 10 October 2020.
6 verify text	css=marquee-showing	La Net Team Software Solution Pvt Ltd company is coming for campus placement on 10 October 2020.
7 close		

Command [] # []

Target [] []

Value []

Description []

Log Reference

2. setWindowSize on 1053x908 OK	22:34:40
3. assertTitle on Shrimad Rajchandra Institute of Management and Computer Application OK	22:34:40
4. verifyTitle on Shrimad Rajchandra Institute of Management and Computer Application OK	22:34:41
5. assertText on css=marquee-showing with value La Net Team Software Solution Pvt Ltd company is coming for campus placement on 10 October 2020. OK	22:34:41
6. verifyText on css=marquee-showing with value La Net Team Software Solution Pvt Ltd company is coming for campus placement on 10 October 2020. OK	22:34:42
7. close OK	22:34:42
TC01 completed successfully	22:34:42

Selenium IDE - Q2*

Project: Q2*

Executing - [Run current test Ctrl+R]

TC02*

Command	Target	Value
1 open	/	
2 set window size	1053x908	
3 verify element not present	linkText=SiS	
4 assert element present	linkText=Student Corner	
5 assert element not present	linkText=Training & Placements	
6 close		

Command [] # []

Target [] []

Value []

Description []

Runs: 1 Failures: 1

Log Reference

1. open on / OK	22:39:41
2. setWindowSize on 1053x908 OK	22:39:41
3. verifyElementNotPresent on linkText=SiS Failed: Element with locator linkText=SiS was found	22:39:41
4. assertElementPresent on linkText=Student Corner OK	22:39:43
5. assertElementNotPresent on linkText=Training & Placements Failed: Element with locator linkText=Training & Placements was found	22:39:44
TC02 ended with 2 error(s)	22:39:44

201803100110002

DOMS

Page No. MDP

Date

/

/

Q.3 Define mobile usability testing in your own words. List any four Usability test cases of the mobile app demonstrated by you for Practical Test-3.

- Ans:
- Mobile Usability testing products according to what end users experience according to what end user requires.
 - It refers to the usability testing performed on mobile products running on mobile platforms.
 - It involves having participants who represent your picture users perform tasks with prototype in controlled environment.
 - List Of Test Cases performed in Practical Test-3:
 - Verify Element Exist
 - Verify Element Test
 - Set Text
 - Get Text
 - Verify match
 - Verify Not matched
 - Verify link
 - Verify Submission

2018 03/00110002

DOMS

Page No. 1/1

Date / /

Q4 Search the keyword "Cross Platform Testing" and do as directed:

- write about Cross Platform Testing in five to six sentences of your own
- List any two importance of such a testing strategy.
- List any two tools that support such type of testing.

Soln: a) - Cross Platform Testing ensures the quality of end product under different OS types, versions & locales confirms seamless application functioning.

- It is used to check the applicability & working of an application across different platform such as different OS, browser or other devices.
- It encapsulates both cross browser and cross OS testing for software products.
- Even different version of service packs for Microsofts products can dramatically change end-product behaviour.
- Different OS also have a variety of versions that should be checked for end product support.

201803100110002

DOMS

Page No. 10/11

Date

/ /

b) Importance of Cross Platform Testing:

- To get a full suite of tests easily & quickly flag any back-end issues or bug for testing a large scale web app across different desktop or browser or OS, they can be fixed as soon as possible.
- To apply a single script across multiple platforms & devices ensure scripts do not have to be created.
- That also ensure that consistency & accuracy of test script is efficient.
- This translates to a high level of product quality, since the chances of errors are reduced.

c) Tools for testing:

- 1) Mabl
- 2) Browsershots
- 3) Lambda Test
- 4) BrowserStack

201803100110002

DOMS

Page No.

MyoM

Date

/

/

Q.5) List any four test cases for mobile Performance Testing.

- Solⁿ:
- 1) To validate required CPU cycle for optimization.
 - 2) To validate application longevity whenever the user load is rigorous.
 - 3) To evaluate product and hardware to determine it to handle projected load volumes.
 - 4) To validate the network performance while moving around with device.
 - 5) To validate the application performance when only intermittent phases of connectivity is required.

201803100110002

DOMS

Page No.

Date

Q.6 Write the purpose of the assertion shown in the image below. Also list the input parameters for the assertion and describe about the output interpretation after running this assertion.

Sol. - Duration Assertion is shown in the image given.

- The purpose of this assertion is that it validates each response that is received within a given amount of time.

- Any response that takes longer than the given number of milliseconds is recorded as a failed response.

Input Parameters

Description

- Duration in milliseconds

- The max number of each response is allowed before being marked failed if response takes more than ms supplied.

- Name

- As shown in the tree, its value is descriptive names of element.

→ Interception of Assertion:

- If the operation took > 1000 ms for loading then it is failed.
- If the jMeter receives response within the specified time as milliseconds, result passes.

Q-7 Describe any one point of difference between API and Web services.

API

- API are application interfaces implying on app can communicate with other app in standardized manner.
- It is used for any style of communication.

Web service

- It is type of API accessed through a network connection.
- It is used for REST, SOAP & XML type of communication.

Q-8 Write any two similarities between API & web services.

- Solⁿ:
- Both support XML
 - Both run on Web Browser
 - Both can be used by any of client who understands XML.
 - Both provide support for HTTP protocol.

Q-9 Do as directed:

a) Response SLA assertion is asserted & tested in Example 1. It is a part of SLA assertion.

b) Steps for Response SLA Assertions.

1. Open a test step.
2. In Ready API Test, select GET Request in the Navigator panel & click to Add Assertion.
3. From the dialog box, select the SLA category on the left & then response SLA on right & click Add.
4. After you click Add, the created API displays the dialog box where you can configure parameters of assertion.
5. After setting parameters click OK.

c) - The test case passes between the given parameters.
 - If the value is greater than 1000ms, the test case fails.
 - If the request takes longer than specified time, case fails.
 - If the execution time is less or equal to specified time, the test case pass.