Part1

What makes Test Case Effective?

Following are the requirement:

1. Must be related to the topic
2. Must be Understandable by anyone/High level Language
3. Must be brief
4. Depends/Related with the Scenario(s)

Good and Bad Test Cases?

Good Test Cases:

Scenario_1: Login into Website
    ID: TS_001
    Test_case_1: Login into Website with valid Credentials
        ID: TC_001
        Steps:
            a. Visit website
            b. Enter username
            c. Enter password
            d. Click on Login
        Expected Result: Logs into Website
        Actual Result: Logs into Website

    Test_case_2: Login into Website with invalid Credentials
        ID: TC_002
        Steps:
            a. Visit website
            b. Enter username
            c. Enter password
            d. Click on Login
        Expected Result: Logs into Website
        Actual Result: Asks are you a Human

Bad Test Cases:

Scenario_1: Login into Website
    ID: TS_001
    Test_case_1: Login into Website with valid Credentials
        ID: TC_001

Steps:

a. Visit website
b. Enter username
c. Enter password
d. Click on Login

Expected Result:

Actual Result: Logs into Website

[Note: Expected Result is not provided to compare with Actual Result to find Errors]

Test_case_2: Check Valid Title of Website

ID: TC_002

Steps:

a. Visit website
b. Check Title is present in Website URL

Expected Result: Title is Correct

Actual Result: Title is present in URL

[Note: We may get the proper title as expected but need to check not through website URL. Need to check title of the Webpage not to check title is present in URL]

Part2

Choosen Scenario: Login Functionality

Pre-requisite:

a. Browser: Chrome
b. Device: Laptop
c. Internet: 4G
d. Website: FlipKart
e. Home URL: https://www.flipkart.com/
f. Login URL: https://www.flipkart.com/account/login?ret=/
g. Mobile: POCO F1
h. Phone Number: 7077480329
i. Number_1: 70774 80329
j. Email: routhfamily123@gmail.com

Test Case Template

Test Case ID	Test Scenario	Preconditions	Test Steps	Expected Result	Priority	Status
TC_001	Login Functionality with Invalid Credentials	User must have Pre-requisi test given above.	1. Enter Login URL. 2. Window must be Maximized. 3. Zoom: 100%. 4. Enter Number_1 in phone Number. 5. Click on Request OTP.	Shows 'Please enter valid Email ID/Mobile number' Should not get OTP to the Number_1.	H	PASS
TC_002	Login Functionality with Valid Credentials	User must have Pre-requisi test given above.	1. Enter Login URL. 2. Window must be Maximized. 3. Zoom: 100%. 4. Enter	Shows pop up message below center corner represents OTP has sent for 3	H	PASS

			Phone Number in phone Number input tag. 5. Click on Request OTP. 7. Enter the OTP and Wait Without clicking on Button	seconds. After 5 seconds approx gets a 6 digit OTP message. (Tells do not share this code…) (**After Entering OTP Automatically logs into the page no Need to click on Button shown below**)		
TC_003	Hover over the Account after Login	User must have Pre-requisi test given above.	Do the TC_002 then Hover over the Account	Shows different options like Logout, Profile etc	H	PASS
TC_004	Checking the Profile for the first time after Providing only Phone Number.	User must have Pre-requisi test given above.	Do the TC_002 then click on Profile	Must only store Phone Number detail. But it Automatically takes the email.	M	PASS
TC_005	Enter Number and characters as phone Number	User must have Pre-requisi test given above.	Enter “7077gagasa” Click enter key.	Shows +91 when entering 7077 then When entering characters removes +91. After	M	PASS

				Clicking Enter key. Shows a message 'Please enter valid Email ID/Mobile number' and Request OTP is disabled.		

Part3

Equivalence Partitioning:

In the Software testing, Equivalence Partitioning is the Black Box Testing Technique. Which is used to reduce number of Test Cases based on boundary conditions, grouping them in form of range values.

Boundary Value Analysis:

In the Software testing, Equivalence Partitioning is the Black Box Testing Technique. Where Equivalence Partitioning is to group the test cases based on range where boundary value Analysis is to check the result in terms of taking values that are at the boundaries and not considering all the test case values which may leads to complexity in system testing.

Decision Table Testing:

In the Software testing, Decision Table Testing is the Black Box Testing Technique. Which Provides all possible combination of input and covers Scenarios based on the range or length. It is mainly used to ensure all the Scenarios are in tabular form. Where each column becomes a test case means each row represents the input and its condition in each column.

State Transition Testing:

In the Software testing, Decision Table Testing is the Black Box Testing Technique. It represents the flow from one Point to Another based on input provided to the initial node where initial node represents the initial webpage and final node is after login where the intermediate stage in user action like providing inputs like username, password then finally clicking on Login button.

Exploration Testing:

It is where the tester learns while testing and can act as the end user. Where tester explores different features and learn effectively.