TUTORIAL 7

Execute test cases manually using different input values and log the results.

Objective:

To **execute test cases manually**, observe system behavior for various inputs, and **log the actual results** along with **pass/fail status**.

Step-by-Step Solution for Manual Test Case Execution

STEP 1: Select a Module for Testing

Let's select the **Login Module** of an Online Banking System.

STEP 2: Prepare the Test Case Template

Use the following format:

TC_ID **Test Scenario** **Test Steps** **Test Data** **Expected Result** **Actual Result** **Status**

STEP 3: Write Test Cases for Login Module

TC_ID	Test Scenario	Test Steps	Test Data	Expected Result
TC_Login_01	Valid login	1. Go to login page2. Enter valid username & password3. Click Login	Username: user123Password: pass@123	User navigates to dashboard
TC_Login_02	Invalid password	Enter valid username but incorrect password	user123 / wrongpass	Error: "Invalid credentials"
TC_Login_03	Empty username	Leave username empty	(blank) / pass@123	Error: "Username is required"

| TC_Login_04 | SQL injection | Use ' OR '1'='1 in username and password | ' OR '1'='1 | Error or block login |
| TC_Login_05 | Case sensitivity check | Enter correct username in lowercase | USER123 / pass@123 | Error: "Invalid credentials" |

STEP 4: Execute Test Cases Manually

Open the application (local setup or demo URL) and perform each test manually.

For Example:

TC_Login_01 - Valid Login

- Open banking app login page.

- Enter username: user123

- Enter password: pass@123

- Click "Login"

➡ **System Response**: Redirected to dashboard ✅

STEP 5: Log Actual Results

TC_ID	Test Scenario	Test Steps	Test Data	Expected Result	Actual Result	Status
TC_Login_01	Valid login	Open login → enter correct credentials	user123 / pass@123	Redirect to dashboard	Redirected successfully	Pass
TC_Login_02	Invalid password	Enter valid username, wrong password	user123 / wrongpass	Error: "Invalid credentials"	Error displayed correctly	Pass

TC_Login_03	Empty username	Leave username field empty	(blank) / pass@123	Error: "Username is required"	Got: "Username is required"	Pass
TC_Login_04	SQL injection	Use ' OR '1'='1 as input	' OR '1'='1 / ' OR '1'='1	Error or blocked login	Login blocked and alert raised	Pass
TC_Login_05	Case Sensitivity	Use all caps in username	USER123 / pass@123	Error message	Logged in anyway – accepted	**Fail**

STEP 6: Log Failures as Bug Reports (if any)

❌ Bug Example for TC_Login_05:

Field	Value
Bug ID	BUG_001
Title	Username is not case-sensitive
Module	Login
Steps to Reproduce	1. Open login2. Enter USER123 / pass@1233. Click login
Expected Result	Error: "Invalid credentials"
Actual Result	User logged in
Severity	Medium
Priority	High

STEP 7: Summarize Test Execution Report

Execution Summary

Total Test Cases	Passed	Failed	Blocked
5	4	1	0

STEP 8: Deliverables for Students

Ask students to submit the following:

- Filled test case table with execution results

- At least one bug report (if any failed test)

- Screenshots of failed test (optional)

- Summary table of execution

Tools for Manual Testing (Optional)

- Excel or Google Sheets (to maintain test cases)

- Word or Google Docs (for bug reports)

- Demo testing website: http://parabank.parasoft.com or any local setup

Learning Outcomes for Students

- Understand how to **manually execute test cases**

- Learn to **compare expected vs actual output**

- Practice writing **defect reports**

- Improve observational and reporting skills