



Report Submission for W3Schools

Title: Manual Testing Tutorial: Test Case Design and Execution for a Login & Registration System

1. Objective:-

The goal of this tutorial is to demonstrate how to manually design, document, and execute test cases for a real-world web application — a login and registration system — using a structured approach. It simulates real QA practices and teaches fault detection, bug reporting, and result documentation.

2. Project Overview:-

- **Application Name:** Login and Registration System
 - **Technology Stack:** PHP, HTML, CSS, MySQL
 - **Environment:** XAMPP on Localhost
 - **URL:** <http://localhost/login-registration>
 - **Purpose:** Allow users to:
 - Register with email/password
 - Log in securely
 - Access a protected dashboard
 - Log out securely
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3. Tools and Software Used:-

Tool	Purpose
Google Chrome	Browser Testing
XAMPP	Local Development (PHP + MySQL)
Visual Studio Code	Code Editing
Excel / Google Sheets	Documenting Test Cases
Snipping Tool	Capturing Screenshots
Windows 10	Operating System







4. Functional Modules:-

Module	Function
Registration	Register new users with validation
Login	Authenticate users
Dashboard	Restricted area for logged-in users
Logout	End session and redirect

5. Test Scenarios:-

Sr. No.	Module	Test Scenario
1	Registration	Register with valid data
2	Registration	Reject invalid email
3	Login	Login with correct credentials
4	Login	Handle incorrect credentials
5	Dashboard	Block unauthenticated access
6	Logout	Logout clears session


6. Sample Test Case Results:-

TC ID	Description	Input	Expected Output	Actual Output	Status
TC01	Valid Registration	Email: user@test.com Pass: Abc@123	Registered and redirected	Registered and redirected	 Pass
TC02	Invalid Email	Email: usertest.com Pass: Abc@123	Error: Invalid Email Format	Error shown	 Pass
TC03	Valid Login	Email: user@test.com Pass: Abc@123	Redirect to dashboard	Dashboard opened	 Pass
TC04	Invalid Login	Email: user@test.com Pass: wrongpass	Error: Invalid credentials	Error shown	 Pass
TC05	Direct Access to Dashboard	Open /dashboard.php	Redirect to login	Redirected	 Pass
TC06	Logout	Click "Logout"	Session destroyed and redirect	Logout successful	 Pass

7. Bug Report:-

Bug ID	Title	Steps	Expected	Actual	Priority	Status
BUG01	Login allows blank password	Leave password blank and log in	Show validation error	Redirects to dashboard	High	Open

 **Impact:** Critical security vulnerability allowing unauthorized access.

 **Fix Suggested:** Enforce server-side validation.

8. Execution Summary:-

Metric	Count
Total Test Cases	6
Executed	6
Passed	6
Failed	0
Major Bugs	1
Minor Bugs	0




9. Learning Outcomes:-

- Analyzed and broke down web modules into testable units
 - Designed and executed manual test cases
 - Practiced real-time bug reporting
 - Strengthened understanding of QA workflows
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10. Conclusion:-

The login system met functional requirements under normal and edge conditions. A significant bug was discovered, proving the importance of robust server-side validation. This exercise mirrors real QA scenarios and encourages secure development practices.

11. Attachments:-

-  [Test Case Sheet](#)
-  Screenshots
-  [Buge Report](#)

