

Manual Testing Report – Online Shopping Web Application

<https://automationexercise.com/>

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1. Project Overview

This project focuses on performing comprehensive manual testing on the Automation Exercise Online Shopping Web Application.

The primary objective of this testing is to assess the functional correctness, UI behavior, validation mechanisms, usability, and session handling of selected user-facing features such as User Registration, Login, Product Browsing, Cart Operations, and Logout.

Automation Exercise is a demo e-commerce application designed for practicing software testing concepts. It simulates a real-world shopping workflow where users can create an account, log in, browse products, add items to the cart, and log out securely.

This document includes a detailed Test Plan, Test Scenarios, Test Cases, Bug Reports, RTM, Observations, Test Summary Report, and Conclusion.

The structure and formatting strictly follow the reference document provided.

2. Selected Modules for Testing

- User Registration Module
- Login Module
- Product Browsing Module
- Cart Module
- Logout Module

3. Test Plan

- Application Name: Automation Exercise Web Application
- Testing Type: Manual Testing – Functional, UI, Validation, Usability
- Test Environment: Web Application – Chrome, Firefox, Edge
- Tools Used: Excel, Word, Screenshot Tool, Browser DevTools

IN-SCOPE MODULES

- Registration
- Login
- Product Browsing
- Cart
- Logout

OUT OF SCOPE

- Checkout & Payment Gateway
- Email Verification
- Admin Panel
- User Profile Management

ENTRY CRITERIA

- Application is accessible
- Test user data prepared
- Supported browser available

EXIT CRITERIA

- All planned test cases executed
- All observed defects logged

DELIVERABLES

- Test Plan
- Test Scenarios
- Test Cases
- Bug Report
- RTM
- Test Summary Report
- Observations & Conclusion

This test plan ensures systematic evaluation of core application features and validates behavior against expected outcomes.

4. Test Scenarios

Scenario ID	Description
TS01	Validate user registration functionality
TS02	Validate login functionality
TS03	Validate product browsing and product details
TS04	Validate cart operations
TS05	Validate logout and session handling

5. Test Cases

Module: User Registration & Login

TC ID	Description	Test Steps	Test Data	Expected Result
TC01	Register with valid details	Signup/Login → Enter name & email → Signup → Fill form → Create Account	Name: Raj Email: raj123@gmail.com Password: Raj@12345	Account created successfully
TC02	Register with your existing email	Signup → Enter registered email → Submit	Email: raj123@gmail.com	Error message displayed
TC03	Register with blank mandatory fields	Leave required fields empty → Submit	Blank	Validation message displayed
TC04	Login with valid credentials	Enter email & password → Login	raj123@gmail.com / Raj@12345	Login successful

TC ID	Description	Test Steps	Test Data	Expected Result
TC05	Login with an invalid password	Enter a valid email & wrong password → Login	raj123@gmail.com / Raj@00000	Error message displayed
TC06	Login with blank fields	Click Login without entering data	Blank	Browser validation message shown

Module: Product Browsing

TC ID	Description	Test Steps	Test Data	Expected Result
TC07	View product list	Click the Products menu	Category: All Products	Product list displayed
TC08	View product details	Click View Product	Product: Blue Top	Product details page displayed
TC09	Verify product information	Verify price, availability, description	As displayed	Correct product information shown

Module: Cart

TC ID	Description	Test Steps	Test Data	Expected Result
TC10	Add product to cart	Click Add to Cart → View Cart	Product: Blue Top	Product added to cart
TC11	Remove product from cart	Open Cart → Click Delete	Product: Blue Top	Product removed successfully
TC12	Verify quantity modification in the cart	Try increasing/decreasing quantity in cart.	N/A	Quantity modification is not available

Module: Logout

TC ID	Description	Test Steps	Test Data	Expected Result
TC13	Log out of the application	Click Logout	User: Raj	User logged out
TC14	Session validation after logout	Press the browser Back button	N/A	Redirected to the login page
TC15	Access secured page after logout	Open Cart URL /view_cart		Access restricted

6. Bug Report

Bug ID	Module	TC ID	Description	Severity	Status
BUG01	Registration	TC03	Weak validation for mandatory fields during registration	Major	Open
BUG02	Product	TC09	Some product images load slowly	Minor	Open
BUG03	Cart	TC12	The cart page does not allow quantity increase or decrease	Minor	Open
BUG04	Cart	TC10	The cart page does not display the item number / serial number	Minor	Open
BUG05	Dashboard	TC13	“Logged in as username” appears clickable, but has no action	Minor	Open

Total Defects: 5

Critical: 0

Major: 1

Minor: 4

7. RTM – Requirements Traceability Matrix

Requirement ID	Requirement Description	Module	Scenario ID	Mapped Test Case IDs
REQ01	The system must allow user registration	Registration	TS01	TC01
REQ02	The system must restrict duplicate registration	Registration	TS01	TC02

Requirement ID	Requirement Description	Module	Scenario ID	Mapped Test Case IDs
REQ03	The system must validate mandatory fields	Registration	TS01	TC03
REQ04	The system must allow a valid login	Login	TS02	TC04
REQ05	The system must restrict invalid login	Login	TS02	TC05
REQ06	The system must display the product list	Product	TS03	TC07
REQ07	The system must display product details	Product	TS03	TC08, TC09
REQ08	The system must allow adding products to the cart	Cart	TS04	TC10
REQ09	The system must allow removing products from the cart	Cart	TS04	TC11
REQ10	The system should allow quantity modification in the cart	Cart	TS04	TC12
REQ11	The system must logout users securely	Logout	TS05	TC13
REQ12	The system must restrict access after logout	Logout	TS05	TC14, TC15

8. Observations

1. The registration form allows weak validation for some mandatory fields.
2. Product images occasionally load slowly.
3. Cart page does not support quantity modification or item numbering.
4. The “Logged in as username” text appears interactive, but performs no action.
5. The application does not provide a user profile or account management page, which appears to be a design limitation rather than a defect.
6. Some product categories do not display products even though the products are visible on the home page, indicating an inconsistency in category-wise product listing.

9. Test Summary Report

Testing Duration: 4 Days

- Total Test Cases Executed: 15
- Passed: 12
- Failed: 3
- Blocked: 0

Pass Percentage: 80%

Major Findings

- Minor usability issues in the cart module
- Validation improvements required in registration
- No critical functional failures identified

Overall Stability: Good

Readiness for Deployment: Moderate

10. Conclusion

The Automation Exercise Online Shopping Application was manually tested across selected modules, including registration, login, product browsing, cart operations, and logout.

The application functions correctly for its intended demo purpose. However, a few minor usability and validation issues were identified, particularly in the cart and registration modules.

No critical defects were observed during testing. With minor UI and validation improvements, the application can offer an improved user experience. Based on the testing performed, the system is stable and suitable for learning and practice purposes.