

# E-Commerce Website – Requirements Document

## 1. Project Overview

This document describes the core functional and non-functional requirements of the e-commerce application hosted at **automationexercise.com**.

The goal is to define clear testing scope and features for manual testing.

**Application Under Test:** <https://automationexercise.com>

**Document Version:** 1.0

**Last Updated:** November 16, 2025

**Prepared By:** Monish Parulekar

## 2. Functional Requirements

### 2.1 User Account Module

ID	Requirement
FR1	User should be able to register with valid details (name, email, password)
FR2	User should be able to log in using email & password
FR3	User should be able to log out successfully
FR4	User should recover a password using “Forgot Password” feature
FR5	User should be able to update profile information
FR6	System should prevent duplicate email registration
FR7	System should validate email format during registration

### 2.2 Product Catalog Module

ID	Requirement
FR8	User should be able to view product categories (Men, Women, Kids)
FR9	User should be able to view individual product details
FR10	User should be able to search products using keywords
FR11	User should be able to filter/sort products based on Categories and Brand names
FR12	User should see product price, description, availability, and image
FR13	User should be able to navigate between product categories

### 2.3 Cart Module

ID	Requirement
FR14	User should be able to add product to cart
FR15	User should be able to view cart summary with all added items
FR16	User should be able to update product quantity in cart

ID	Requirement
FR17	User should be able to remove product from cart
FR18	Cart should show accurate total price calculation
FR19	Cart should persist items during the session
FR20	User should see cart item count in header

#### 2.4 Checkout Module

ID	Requirement
FR21	User should be able to proceed to checkout from cart
FR22	User should be able to enter shipping & billing details
FR23	User should be able to review order summary before payment
FR24	User should be able to add comments/notes to order
FR25	User should be able to confirm the order
FR26	System should validate required checkout fields

#### 2.5 Payment Module

ID	Requirement
FR27	User should be able to enter payment card details
FR28	User should be able to simulate payment processing
FR29	System should display order confirmation message after successful payment
FR30	User should receive order confirmation number

#### 2.6 Order Module

ID	Requirement
FR31	User should be able to view order history in account
FR32	User should be able to view order details
FR33	User should be able to download invoice
FR34	User should receive email confirmation

#### 2.7 Contact Us Module

ID	Requirement
FR35	User should be able to access Contact Us page
FR36	User should be able to submit contact form with required fields
FR37	User should be able to upload a file attachment
FR38	User should receive success message after form submission
FR39	System should validate contact form fields

## 2.8 Subscription Module

ID	Requirement
FR40	User should be able to subscribe to newsletter
FR41	User should see subscription confirmation message
FR42	System should validate email format for subscription

## 2.9 UI & Navigation

ID	Requirement
FR43	User should navigate pages via navbar/footer
FR44	Website should maintain consistent layout & branding across pages
FR45	All pages should load correctly without broken links
FR46	User should see breadcrumb navigation on product pages
FR47	Footer should contain all relevant links and information

## 3. Non-Functional Requirements

### 3.1 Performance

ID	Requirement
NFR1	Pages should load within 3–5 seconds under normal conditions
NFR2	Search results should return within 2 seconds
NFR3	Cart operations should respond within 1 second

### 3.2 Usability

### 3.3 Compatibility

ID	Requirement
NFR8	Website should work on Chrome, Firefox, Edge, Safari
NFR9	Site should be responsive on mobile devices (iOS/Android)
NFR10	Website should function properly on tablet devices
NFR11	Website should support minimum screen resolution of 1024x768

### 3.4 Security

ID	Requirement
NFR12	Password fields must be masked (hidden characters)
NFR13	Login should validate and reject incorrect credentials
NFR14	System should prevent SQL injection in input fields
NFR15	Session should timeout after period of inactivity

### 3.5 Accessibility

ID	Requirement
----	-------------

ID	Requirement
NFR16	Website should have proper alt text for images
NFR17	Website should be keyboard navigable
NFR18	Forms should have proper ARIA labels

#### 4. Test Environment Requirements

- **Browser:** Chrome (latest), Firefox (latest), Edge (latest)
- **Operating System:** Windows 10/11, macOS, Linux
- **Mobile Devices:** iOS Safari, Android Chrome
- **Internet Connection:** Stable broadband connection (minimum 2 Mbps)
- **Test Data:** Valid email addresses for registration and testing

#### 5. Out of Scope

- Payment gateway integration with real money transactions
- Backend API testing
- Performance/stress/load testing
- Database testing
- Security penetration testing
- Third-party integrations testing

#### 6. Assumptions

- Website is stable and publicly accessible at all times
- Payment flow is simulated, not processing real transactions
- Test data is not persisted long term and may be cleared
- Website is hosted on a test/demo environment
- No authentication required to access public pages
- All features mentioned are available and functional

#### 7. Dependencies

- Stable internet connection required for testing
- Access to valid email accounts for registration testing
- Browser compatibility requirements met
- Website uptime and availability

#### 8. Constraints

- Testing limited to manual test execution only
- No access to backend systems or databases
- Cannot modify website configuration or settings
- Limited to functional and UI testing only

## 9. Acceptance Criteria

A requirement is considered met when:

- Feature works as described in the requirement
- No critical bugs are found during testing
- Feature is accessible across supported browsers
- Feature meets usability standards
- Error handling works appropriately

A requirement is considered not met when:

- Feature does not exist or is not implemented
- Feature exists but has critical defects
- Feature fails on supported browsers/devices
- Feature does not meet usability standards

Note: Requirements marked as “not met” will be documented in the Test Summary Report with appropriate justification (missing feature, blocked, or defect found).

## 10. Glossary

Term	Definition
FR	Functional Requirement
NFR	Non-Functional Requirement
UI	User Interface
UX	User Experience
AUT	Application Under Test
RTM	Requirements Traceability Matrix

**Document Status:** Approved for Testing

**Next Steps:** Proceed with Test Plan creation based on these requirements