

# Software Requirements Specification

For: Automation Exercise E-Commerce Website

Version: 2.0

Date: October 18, 2025

Status: Approved

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## Introduction .1

### Purpose 1.1

The purpose of this document is to describe and validate the functional and non-functional requirements of the Automation Exercise E-Commerce Website

<https://automationexercise.com>.

This SRS serves as the definitive reference for testers and QA teams performing manual, automation, and front-end API testing.

.Only requirements observable and testable through the public web interface are included

### Scope 1.2

The scope covers all user-facing modules and workflows available on the website, including

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## Scope 1.2

The scope covers all user-facing modules and workflows available on the website, including

- User registration, login/logout, and account deletion
- Product browsing, search, and filtering
- Product detail viewing
- Shopping cart and checkout (with simulated payment)
- Contact Us form and Newsletter subscription
- Static navigation and pages (e.g., Home, Products, Cart, Contact, Test Cases)

Out of Scope: Back-office admin functions, database operations, and server configurations, which are not available for public testing.

## Definitions & Acronyms 1.3

| Term                   | Definition                                       |
|------------------------|--|
| <b>SRS</b>             | Software Requirements Specification              |
| <b>UI</b>              | User Interface                                   |
| <b>User</b>            | Visitor interacting with the website             |
| <b>Guest User</b>      | User who has not logged in                       |
| <b>Registered User</b> | User who has created and logged into an account  |
| <b>Cart</b>            | Virtual container for selected items             |
| <b>Checkout</b>        | Order placement process (simulated payment only) |

## Overall Description .2

### Product Perspective 2.1

The system is a stand-alone web application that simulates an online shopping experience for apparel and accessories. Its primary goal is to offer practice scenarios for software test .automation and quality engineering exercises

.All transactions and order confirmations are simulated — no real payments occur

## User Characteristics 2.2

1. Guest User:
  - Can browse products, search, filter, and add to cart.
  - Cannot place orders until registered/logged in.
2. Registered User:
  - Inherits all Guest User functionalities.
  - Can complete simulated checkout and view order confirmation.
  - Can delete account to reset test data.

## 2.3 Assumptions & Constraints

- The site is publicly accessible via standard browsers with an active internet connection.
- All financial operations are simulated; no real monetary processing occurs.
- The interface and messages are in English.
- Backend administrative modules are not accessible for validation and are excluded.

## 3. Specific Requirements

### Functional Requirements 3.1

#### FR-AUTH: User Authentication Module

| ID         | Requirement Description   |
|------------|---|
| FR-AUTH-01 | New users can register via the “Signup/Login” page by providing name and unique email.  |
| FR-AUTH-02 | After submitting the email and name, users complete a detailed registration form (title, password, date of birth, address, etc.). |
| FR-AUTH-03 | All mandatory fields must be validated for non-empty input before submission.   |

|            |   |
|------------|---|
| FR-AUTH-04 | If an email already exists, the system shall display “Email Address already exist!” |
| FR-AUTH-05 | Registered users can log in with correct email and password.                        |
| FR-AUTH-06 | Incorrect email or password shows “Your email or password is incorrect!”            |
| FR-AUTH-07 | Upon login, the header displays “Logged in as [username]”.                          |
| FR-AUTH-08 | Users may log out and be redirected to Signup/Login.                                |
| FR-AUTH-09 | Users can delete their account and see “ACCOUNT DELETED!” message.                  |

#### FR-PROD : Product Discovery Module

| ID         | Requirement Description  |
|------------|--|
| FR-PROD-01 | Homepage displays featured products and categories.  |
| FR-PROD-02 | “Products” page shows the full product list.   |
| FR-PROD-03 | “View Product” button opens a product details page with image, name, category, price, availability, and brand. |
| FR-PROD-04 | Search bar returns all products matching keywords.   |
| FR-PROD-05 | Products page allows filtering by Category and Subcategory (e.g., Women → Dress).                              |
| FR-PROD-06 | Products can be filtered by Brand.   |

#### FR-CART : Shopping Cart Module

| ID         | Requirement Description   |
|------------|---|
| FR-CART-01 | Users can add products with chosen quantity to cart from Product Details. |

|            |   |
|------------|---|
| FR-CART-02 | After adding, a confirmation popup appears with “View Cart” and “Continue Shopping”.  |
| FR-CART-03 | “Cart” page lists all added items (image, description, price, quantity, total price). |
| FR-CART-04 | Cart shows correct sum of item prices and updates totals on quantity changes.         |
| FR-CART-05 | Users can remove an item from cart with “X” (Remove) button.                          |
| FR-CART-06 | Cart retains content within same session for guest users.                             |

#### FR-CHK : Checkout and Simulated Payment

| ID        | Requirement Description  |
|-----------|--|
| FR-CHK-01 | Users can proceed to checkout only if logged in.   |
| FR-CHK-02 | Clicking “Proceed to Checkout” as Guest prompts registration/login popup.                |
| FR-CHK-03 | Checkout page displays user address details and cart summary (Review Order).             |
| FR-CHK-04 | Users can enter comments for delivery before placing the order.                          |
| FR-CHK-05 | Clicking “Place Order” opens Payment form (Name on Card, Card Number, CVC, Expiration).  |
| FR-CHK-06 | Submitting payment details shows confirmation “Your order has been placed successfully!” |
| FR-CHK-07 | Invoice can be downloaded after order placement.   |

#### FR-MISC : Miscellaneous Features

| ID         | Requirement Description  |
|------------|--|
| FR-MISC-01 | “Contact Us” form accepts name, email, subject, message, and optional file upload. |

|            |  |
|------------|--|
|            | Confirmation message is shown on submission.   |
| FR-MISC-02 | "Test Cases" page is accessible from header menu to list predefined testing scenarios.             |
| FR-MISC-03 | Newsletter subscription in footer accepts email and shows "You have been successfully subscribed!" |

## Non-Functional Requirements 3.2

### NFR-PERF : Performance

| ID          | Requirement   |
|-------------|---|
| NFR-PERF-01 | All pages should load (visually complete) within 3 seconds on standard broadband. |
| NFR-PERF-02 | Search and filter responses should return within 2 seconds.                       |

### NFR-USAB : Usability and UI

| ID          | Requirement  |
|-------------|--|
| NFR-USAB-01 | Consistent navigation (menu/footer) across all pages.                                    |
| NFR-USAB-02 | All buttons, links, and inputs provide visual feedback on hover or focus.                |
| NFR-USAB-03 | Responsive layout adapted for desktop, tablet, and mobile devices.                       |
| NFR-USAB-04 | Form validation messages should be clear and displayed next to the field in error.       |
| NFR-USAB-05 | Website should meet basic WCAG 2.1 Level AA criteria for contrast & keyboard navigation. |

### NFR-SEC : Security

| ID | Requirement |
|----|-------------|
|----|-------------|

|            |   |
|------------|---|
| NFR-SEC-01 | All communication must occur over HTTPS (TLS).                              |
| NFR-SEC-02 | Authentication forms should use secure mechanisms to transmit passwords.    |
| NFR-SEC-03 | Application should block basic XSS such as HTML/JavaScript input in fields. |

