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Automation Exercise Project

Software Requirements Specification

3/10/2025

Prepared for

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0.1 Revision History

Date	Description	Author	Comments
3/10/2025	Version 1	Amr Ashraf	Initial Draft
5/10/2025	Version 1.1	Amr Ashraf	Added products and Search
6/10/2025	Version 1.2	Madonna Ramadan	User Management

1. Introduction

The Automation Exercise - Test Plan & Requirements Overview this document describes the minimal release and testing scope for the “Automation Exercise” practice website (a public demo site used for automation and API practice). The goal of this release is to provide a clear, test-oriented requirements baseline so developers and testers can plan, implement and automate test cases against the demo site.” automationexercise.com”

1.1 Purpose

The purpose of this document is to define what will be delivered and tested for the initial release of the automation exercise practice site (functional features and the testing boundaries). This document will be used by stakeholders: product owner, developers, QA engineers, automation engineers, and reviewers. (Templates and structure follow common SRS / Test Plan practice as recommended by ISO/IEEE requirements guidance).

1.2 Definitions, Acronyms, and Abbreviations

Term	Definition
UI	User interface
SRS	Software Requirements Specification
FR	Functional Requirement
TR	Technical Requirement

1.3 Audience

Developers, Testers / Automation Engineers, Product Owner, Release Manager, and other stakeholders responsible for test coverage and release decisions.

2. Specific Requirements

2.1 Functional Requirements

ID	Description
FR1	Users should be able to view a list of all available products.
FR2	Each product must display a name, price, and image.
FR3	Users should be able to open the product details page.
FR4	Product details page must show description, price, availability, and add-to-cart button.
FR5	The search bar should allow users to find products by name or keyword.
FR6	Search results should only display relevant products.
FR7	User should be able to filter products by category (e.g., Men, Women, Kids).
FR8	Users should be able to filter products by brand.
FR9	Search results must be cleared or reset when the user navigates away.

Checkout Process

ID	Description
FR10	The system shall allow users to review items in the shopping cart before proceeding to checkout.
FR11	The system shall display the subtotal, tax, shipping cost, and total amount.
FR12	The system shall allow users to update the quantity or remove products from the cart.
FR13	The system shall require users to log in or register before completing checkout
FR14	The system shall collect necessary billing and shipping information from the user.
FR15	The system shall validate all mandatory fields before proceeding (e.g., address, phone, email).

FR16	The system shall allow users to select a shipping method (Standard, Express, etc.).
FR17	The system shall display a summary of the order before final confirmation.

Payment Module

ID	Description
FR18	The system shall allow users to choose a payment method (Credit/Debit Card, PayPal, or Cash on Delivery).
FR19	The system shall securely transmit payment details using HTTPS.
FR20	The system shall validate payment card details (number, expiry date, CVV).
FR21	the system shall display appropriate error messages for failed or incomplete payments.
FR22	The system shall update the order status to 'Paid' once payment confirmation is received.
FR23	The system shall generate a unique order ID for each successful transaction.
FR24	The system shall send an email confirmation to the user after successful payment.

Order Management

ID	Description
FR25	The system shall store all order details in the database for future reference.
FR26	The system shall allow users to view their order history in their profile section.
FR27	The system shall allow admins to view and manage all orders.
FR28	The system shall display order tracking details (if applicable).
FR29	The system shall allow users to cancel orders before shipment if payment is pending.

Sign up

ID	Description
FR30	The system shall allow new users to sign up by providing their name, email, password.
FR31	The system shall validate all input fields during sign up
FR32	The system shall verify that the entered email address is in a valid format
FR33	the system shall check for duplicate email addresses before creating an account
FR34	The system shall encrypt the user's password before saving it in the database.
FR35	The system shall display an appropriate error message for missing or invalid input fields
FR36	The system shall display a success message upon successful account creation.

Login

ID	Description
FR37	The system shall allow registered users to log in using their Email, password
FR38	The system shall validate all required login fields are filled
FR39	The system shall compare entered credentials with stored data in the database.
FR40	the system shall create a maintain a user session after successful login.
FR41	The system shall display an error message for invalid email and password.
FR42	The system shall lock the account temporarily after multiple failed login attempts (optional security measure)

Logout

ID	Description
FR43	The system shall allow logged-in users to log out securely
FR44	The system shall terminate the active session upon logout

FR45	The system shall clear cookies and temporary data related to the user session
FR46	the system shall display a confirmation message after successful log out.

Delete account

ID	Description
FR47	The system shall allow new users to permanently delete their account.
FR48	The system shall ask users to confirm deletion before proceeding
FR49	The system shall require password re-entry before deleting the account
FR50	The system shall verify user credentials before deletion.
FR51	The system shall delete the user 's data and related records from the database.
FR52	the system shall display a confirmation message after successful deletion
FR53	The system shall display an error message if password verification fails

Contact Us

ID	Description
FR54	The system shall provide "contact us" form with input field: name, email, subject, and message.
FR55	The system shall validate all input fields before submission
FR56	The system shall check that email field contains a valid email address.
FR57	the system shall send the message content to the support team's email address.
FR58	The system shall display a success message upon successful message delivery.
FR59	The system shall display an error message for incomplete or invalid fields

3.Front End Details

Checkout & payment page

ID	Component	Description	Technical Requirements
FR-1	Checkout Button	“Proceed to Checkout” button visible when cart has items	Redirects to Checkout page via HTTPS.
FR-2	Checkout Page	Displays cart summary, subtotal, and taxes	Page loads under 3 seconds.
FR-3	Address Section	Collects billing/shipping address	All fields validated for emptiness and format.
FR-4	Shipping Method	Shows shipping options	One option preselected; cost included in total.
FR-5	Payment Method	Displays payment choices	Disabled methods appear greyed out.
FR-6	Card Payment Form	Input for card details	16-digit number, valid expiry, 3-digit CVV.
FR-7	Submit Payment	User submits payment	Front-end validation before submission.
FR-8	Payment Response	Displays success or failure message	Shows appropriate feedback to user.
FR-9	Confirmation Page	Displays order details and total	Data must match checkout input.
FR-10	Email Notification	Confirmation message displayed	Shows message: “A confirmation email has been sent.”

User Management pages

ID	Component	Description	Technical Requirements
FR-11	Signup Page	The signup page allows new users to create an account by entering their personal details (Full Name, Email, Password, Confirm Password). The form validates the input fields before submission (e.g., valid email format, password length, and match). Once validated, it sends data to the backend for registration.	<ul style="list-style-type: none"> - HTML form with labeled input fields and a “Sign Up” button. - Client-side validation using JavaScript. - Password strength indicator. - Error messages for invalid or empty fields. - CSS for responsive and user-friendly design. - AJAX/Fetch API to send data securely to backend. - Use HTTPS for secure data transfer.
FR-12	Login Page	The login page allows registered users to access their accounts using Email and Password. It provides validation for empty or incorrect inputs and displays appropriate error messages. Successful login redirects the user to the homepage or dashboard.	<ul style="list-style-type: none"> - HTML login form with input fields for Email and Password. - Client-side validation for empty or invalid inputs. - Error message display for incorrect credentials. - CSS for alignment and responsive layout. - JavaScript to handle form submission and call backend API. - “Remember Me” checkbox (optional).
FR-13	Logout Function	The logout feature enables users to securely end their session. Once clicked, it clears session data/cookies and redirects the user to the homepage or login page.	<ul style="list-style-type: none"> - Logout button in navigation bar. - JavaScript function to clear user token/session. - Redirect to Login or Home page after logout. - Visible only when the user is logged in. - Responsive button placement for mobile/desktop.
FR-14	Delete Account Page	This page allows users to permanently delete their accounts. It requires	<ul style="list-style-type: none"> - “Delete Account” button in user profile settings. - Confirmation modal using JavaScript. - Frontend

		confirmation before deletion (e.g., a popup or “Are you sure?” message). After confirmation, it triggers the backend API to delete the account and redirects the user to the homepage.	call to DELETE API endpoint. - CSS for alert/popup styling. - Redirect function after successful deletion. - Secure action confirmation to prevent accidental deletion.
FR-15	Contact Us Page	The Contact Us page enables users to send messages or inquiries to the support team. It contains fields like Name, Email, Subject, and Message. The form validates input before submission and shows a success message once sent.	- HTML form with text inputs and textarea. - JavaScript validation for empty fields and valid email format. - CSS for layout and mobile responsiveness. - Submit button triggering backend POST request. - Display success/error messages dynamically. - Optional integration with email API or backend message system.

3.1. Technical Requirements

Products

- T1 The “Products” page must load within 5 seconds on a stable internet connection.
- T2 All product images, names, prices, and ratings must be displayed properly without broken links or missing data.
- T3 Each product card on the Products page must contain the following elements: image, title, price, and “View Product” button.
- T4 Clicking “View Product” must open the corresponding Product Details page for the correct product.
- T5 The Product Details page must display the following fields: Product image, name, category path, star rating, price, quantity selector, Add to Cart button, Availability, Condition, and Brand.

- T6 The Quantity field must accept only **positive** integers; negative, zero, or non-numeric values must be restricted.
- T7 Clicking the Add to Cart button must correctly add the product with the selected quantity to the cart.
- T8 The Price field must dynamically calculate the total cost (price × quantity) and display correctly in the cart.
- T9 Availability should display “In Stock” or “Out of Stock” based on product status.
- T10 Condition should always display accurate status (“New” or “Used”).
- T11 The Brand displayed must match the brand selected or shown on the previous page.
- T12 Category and brand filters on the left sidebar must dynamically refresh the products shown on the page.
- T13 Product reviews section must include input fields for Name, Email, and Review message.
- T14 Clicking Submit under the review section must display a confirmation message (“Thank you for your review”) or equivalent feedback.
- T15 The “Add to Cart” and “Submit” buttons must have visible hover and active states to indicate interaction.
- T16 The navigation menu (Home, Products, Cart, etc.) must remain accessible and functional on the Product Details page.
- T17 The Product Details layout must remain responsive — all sections visible without overlapping or cutoff at 100%, 75%, and 50% zoom levels.
- T18 When navigating between products, the URL should dynamically reflect the product ID or name for clarity.
- T19 The Back button or browser navigation must correctly return to the previous Products list page with same filters active.
- T20 The Product Details page must be compatible across browsers (Chrome, Edge, Firefox – latest versions).

- T21 If any field (price, brand, image, etc.) fails to load, the system must handle it gracefully without page crash.
- T22 Applying search results, category, or brand filters must not break or distort the Product Details layout.
- T23 The user session must retain product browsing context until logout or browser close.
- T24 **Reviewer Name** field must follow these rules:
- Can contain letters and spaces only
 - **Cannot contain numbers**
 - Cannot be blank
 - Cannot contain special characters
 - Cannot start with a space
- T25 Email field must follow valid email format
- T26 Review field must follow these rules:
- Cannot be blank
 - Must contain at least 10 characters.

Signup

- T27 The “Signup” page must load within 3 seconds on a stable internet connection.
- T28 All input fields (Full Name, Email, Password, Confirm Password) must be displayed correctly without overlapping or missing elements.
- T29 Full Name field must not accept numbers, special characters, or leading/trailing spaces.
- T30 Email field must accept only valid email formats and must be unique in the system.
- T31 Password field must hide input characters and require a minimum of 8 characters, including uppercase, lowercase, digits, and special characters.
- T32 Confirm Password field must match the Password field before submission.
- T33 All required fields must show a red border or validation message when left empty.
- T34 Clicking “Sign Up” must send user data to the backend and show a success message (“Account created successfully”) or an error message if failed.

- T35 If the email already exists, a validation message (“Email already registered”) must appear below the Email field.
- T36 The page must remain responsive and properly formatted on desktop, tablet, and mobile screens.
- T37 “Sign Up” button must have visible hover and active states to indicate interactivity.

Login Page

- T38 The “Login” page must load within 3 seconds on a stable internet connection.
- T39 Email and Password fields must be displayed properly and support client-side validation.
- T40 Email must follow a valid email format; invalid format should display a validation message.
- T41 Password field must mask characters during input.
- T42 Clicking “Login” must authenticate the user and redirect to the home page or dashboard if credentials are correct.
- T43 Incorrect login attempts must show an error message (“Invalid email or password”).
- T44 The “Remember Me” checkbox must allow the system to keep the user logged in until they manually log out.
- T45 “Forgot Password” link must redirect to the Password Reset page.
- T46 Login button must have hover and active visual feedback.
- T47 Login form layout must remain responsive and accessible on all major browsers.

Logout Functionality

- T48 Clicking “Logout” must immediately terminate the current session.
- T49 User must be redirected to the homepage or login page after successful logout.
- T50 A message (“You have logged out successfully”) must be displayed after logout.
- T51 All authentication tokens and session data must be cleared from the browser.
- T52 Logout button must be accessible from all pages (usually via the navigation bar).
- T53 Logout button must display hover and active states for better user experience.

Delete Account Feature

- T54 “Delete Account” button must be visible under user settings or profile section.
- T55 Clicking “Delete Account” must open a confirmation popup asking “Are you sure you want to delete your account?”.
- T56 Popup must include a password confirmation field before deletion can proceed.
- T57 If the password entered is incorrect, an error message (“Incorrect password”) must be displayed.
- T58 On confirming deletion, the system must remove the account and redirect to the homepage or signup page.
- T59 A success message (“Your account has been deleted successfully”) must be displayed.
- T60 If the deletion fails, an error message must appear without reloading the page.
- T61 All related user data (session, cart, saved items) must be cleared from the browser.
- T62 The confirmation popup and layout must remain responsive on all screen sizes.

Contact Us Page

- T63 The “Contact Us” page must load within 3 seconds on a stable internet connection.
- T64 Form must include: Name, Email, Subject, Message fields, and “Send” button.
- T65 Name field must not accept numbers or special characters.
- T66 Email field must accept only valid email formats.
- T67 Subject must allow alphanumeric characters up to 100 characters.
- T68 Message field must require at least 10 characters and cannot be left blank.
- T69 All fields must show validation errors if left empty or filled incorrectly.
- T70 Clicking “Send” must display a confirmation message (“Your message has been sent successfully”) or show an error if submission fails.
- T71 If the internet connection fails, an appropriate error message must be shown (“Failed to send. Please try again.”).
- T72 “Send” button must have hover and active states for interactivity feedback.
- T73 Contact form layout must remain responsive and accessible across browsers (Chrome, Edge, Firefox, Safari).
- T74 After successful submission, all input fields must be cleared automatically.

3.2 Functional validations

Product Page

ID	Validation Description
F1	System must display all available products on the “All Products” page.
F2	Each product must show correct name, price, and image.
F3	Clicking on a product’s image or View Product button must open the correct Product Details page.
F4	Product information on the listing page (name, price, brand) must match data shown on the Product Details page.
F5	The total number of products displayed must match the count shown beside each brand and category name.
F6	Products must remain correctly aligned and visible when scrolling through the page.
F7	“Add to Cart” button on each product card must be clickable and add the selected product successfully to the cart.
F8	If a product image or data is missing, a placeholder or default message must appear without breaking page layout.

Search bar

ID	Validation Description
F9	User must be able to enter a keyword in the search bar and click the search button.
F10	When a valid keyword (e.g., "Dress") is entered, only matching products must be displayed.
F11	When a partial keyword is entered (e.g., "Dre"), all products containing that string must appear.
F12	When an invalid keyword is entered, system must display "Product not found" message.
F13	Search results must appear within 3 seconds after submitting the query.
F14	Search results must display products in the same format (image, name, price) as the main Products page.
F15	Clearing the search input or navigating away must reset product list to All Products view.
F16	Search must not be case-sensitive (e.g., "dress" and "Dress" should return same results).
F17	Search function must ignore leading or trailing spaces in the entered keyword.
F18	Searching must not cause layout breakage or blank product frames.

Category and filters

ID	Validation Description
F19	Clicking on a category (e.g., Women, Men, Kids) must display products belonging to that category only.
F20	Clicking on a subcategory (e.g., Women → Tops) must show only products under that subcategory.
F21	Selecting a brand (e.g., Polo, H&M) must filter and display products for that brand only.
F22	The number of products shown after applying a filter must match the count in parentheses beside that brand/category.
F23	Switching between different categories or brands must refresh the product list accordingly.
F24	Only one brand or category filter must be active at a time.
F25	After applying filters, clicking “All Products” must restore the full product list.
F26	Product filters must function consistently across browsers (Chrome, Edge, Firefox).
F27	Filtered product results must display correct names, prices, and images.

Product Details Page

ID	Validation Description
F28	The product Details page must display product name, image, price, category, availability, condition, and brand.
F29	The quantity input must accept only numeric values greater than zero.
F30	Clicking “Add to Cart” from Product Details must add the correct product and quantity to the cart.
F31	The availability field must display “In Stock” for available items and “Out of Stock” otherwise.
F32	The condition field must correctly display “New” or “Used” as defined for the product.
F33	The brand displayed must match the brand shown in the product list and sidebar.
F34	Clicking browser Back or “Products” link must return user to previous Products list with filters intact.
F35	When switching products using navigation, Product Details must update accordingly without reload errors.
F36	Page layout must remain consistent at all resolutions (100%, 75%, 50%).
F37	Star ratings (if enabled) must accurately display an average rating for the product.

F38	button (Add to Cart) must show hover/active effects to confirm interaction
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Review Section

ID	Validation Description
F39	The review form must display input fields for Name, Email, and Review message.
F40	<p>Reviewer Name field:</p> <ul style="list-style-type: none"> • Cannot be blank • Must not contain special characters • Can contain letters and spaces only • Cannot start with a space
F41	<p>Email field:</p> <ul style="list-style-type: none"> • Cannot be blank • Must follow valid email format
F42	<p>Review message:</p> <ul style="list-style-type: none"> • Cannot be blank • Must contain at least 10 characters
F43	Clicking Submit must display confirmation message (“Thank you for your review”) or equivalent success alert.
F44	Review form must prevent submission if any required field is missing or invalid.
F45	Review fields must clear automatically after successful submission.
F46	Submitting multiple reviews in a row must create new entries, not overwrite existing ones (if review list visible)

Checkout & payment page

Validation ID	Validation Description	Expected Behavior
F47	Required Fields	Displays inline error for missing mandatory fields.

F48	Card Number	Accepts only 16 numeric digits; error for invalid input.
F49	Expiry Date	Rejects past or invalid dates.
F50	CVV	Accepts exactly 3 digits; non-numeric disallowed.
F51	HTTPS Security	All pages served via HTTPS.
F52	Total Amount	Final total matches cart total + shipping.
F53	Timeout	Shows timeout message after 30 seconds of no response.
F54	UI Compatibility	Valid layout across Chrome, Edge, and Firefox.

ID	Validation Description	Expected Behavior
F55	Validate that all required fields on the Signup page (Full Name, Email, Password, Confirm Password) are filled before submission.	System must display a validation message "All fields are required" if any field is left empty.
F56	Validate Full Name input format.	Full Name must accept only letters and spaces; special characters or numbers trigger an error "Invalid name format."
F57	Validate Email format on Signup.	System must reject invalid email formats and display "Please enter a valid email address."
F58	Check for duplicate Email registration.	If the email already exists, system must display "Email already registered."

F59	Validate Password strength.	Password must meet minimum complexity (8+ chars, uppercase, lowercase, number, special char); otherwise display “Weak password.”
F60	Validate Confirm Password matches Password.	If both passwords don’t match, show “Passwords do not match.”
F61	Validate Terms and Conditions checkbox (if available).	System must prevent signup until user checks the “I agree” checkbox.
F62	Verify successful signup submission.	On valid input, account is created, user redirected to Login page, and success message “Account created successfully” displayed.
F63	Validate empty Email or Password fields during Login.	System must display “Email and Password are required.”
F64	Validate incorrect login credentials.	System must display “Invalid email or password.” and prevent login.
F65	Validate Remember Me checkbox functionality.	When checked, user session remains active after browser close; unchecked ends session on close.
F66	Validate Forgot Password link.	Clicking the link redirects to “Password Reset” page.
F67	Validate successful login.	Valid credentials must log user in and redirect to Home/Dashboard.
F68	Validate Logout action.	Clicking “Logout” must clear user session and redirect to Login or Home page with message “Logged out successfully.”
F69	Validate that user cannot access restricted pages after logout.	Attempting to access restricted pages must redirect to Login page.
F70	Validate Delete Account button visibility.	Button must appear only for logged-in users.
F71	Validate confirmation popup on Delete Account.	Clicking the button must show confirmation message “Are you sure you want to delete your account?”.

F72	Validate password confirmation during Delete Account.	If incorrect password entered, system must show "Incorrect password." and cancel deletion.
F73	Validate successful account deletion.	Correct password and confirmation must delete user account and show "Account deleted successfully."
F74	Validate data clearance after account deletion.	All local session, cache, and cart data must be cleared from browser.
F75	Validate Contact Us form required fields.	Name, Email, Subject, and Message fields must be filled before sending; otherwise show "All fields are required."
F76	Validate Contact Us Name field.	Name must accept only letters and spaces; invalid entries show "Invalid name format."
F77	Validate Contact Us Email format.	Invalid email input shows "Please enter a valid email."
F78	Validate Message field length.	Message must contain at least 10 characters; shorter inputs show "Message too short."
F79	Validate successful Contact Us submission.	Valid form submission shows "Your message has been sent successfully."
F80	Validate Contact Us error handling.	If sending fails due to connection error, system must display "Failed to send. Please try again."
F81	Validate clearing of fields after successful submission.	All form fields must reset after displaying success message.
F82	Validate responsive layout for all pages.	Pages (Signup, Login, Contact Us, Delete Account) must remain usable and properly aligned on all screen sizes.
F83	Validate hover and active states for buttons.	Buttons ("Sign Up", "Login", "Logout", "Delete", "Send") must change color or style on hover/active.
F84	Validate redirection after successful actions.	Signup → Login page, Login → Home page, Logout → Login page, Delete Account → Home page.

F85	Validate error message display location.	Error messages must appear directly under or beside the related input field for clarity.
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Shopping Cart Module

Software Requirements Specification (SRS)

Date: 6/10/2025

Prepared for: Eng: Abdelarhman Osama

1. Introduction

The **Cart System** module manages the user's shopping experience by allowing product addition, removal, quantity adjustment, and validation of stock availability.

This document defines the functionalities, validations, and requirements of the Cart Management feature.

1.1 Purpose

The main purpose of this SRS is to define software and functional requirements for the **Cart Management System**, including operations like adding products, managing quantities, validating stock, updating totals, and preparing for checkout.

1.2 Definitions, Acronyms, and Abbreviations:

Term	Definition
BC	Bar code - unique product identifier
QTY	Quantity of items added to the cart
ST	Sub Total –the price before any discounts and taxes
TL	Total after the taxes and discounts “if it exists”
AC	Adding to cart-Adding items to the shopping cart
RC	Remove from cart-Remove / delete items from the shopping cart
IC	Inventory Check -ensures the quantity added to cart does not exceed available stock

1.3 Audience

This document is intended for developers, testers, product owners, automation engineers, and QA teams responsible for designing, developing, and validating the cart feature.

2. Specific Requirements

2.1 Functional Requirements

Cart Operations

ID	Description
FR1	Users can add products to the cart from the product page or listing page.
FR2	The system validates stock availability before adding an item.
FR3	If requested quantity > available stock, show: “Only X items available in stock.”
FR4	Users can update the product quantity directly from the cart page.
FR5	Quantity field restricted between 1 and available stock.
FR6	Users can remove products individually from the cart.
FR7	“Clear Cart” removes all items after confirmation prompt.

FR8	Cart items remain after refreshing using cookies or local storage (Cart Persistence).
FR9	Subtotal, tax, and total auto-update when quantity or product list changes.
FR10	Cart displays image, name, price, quantity, subtotal, and availability.

Checkout Preparation

ID	Description
FR11	Prevent checkout if cart is empty.
FR12	Validate product availability before checkout.
FR13	If item becomes OOS during checkout, show: “Item unavailable — please update your cart.”
FR14	Cart summary must be accurate before redirection to checkout.
FR15	Cart data must sync with user account if logged in.

3. Front-End Details

Cart Page Components

ID	Component	Description	Technical Requirements
FR-1	Cart Table	Displays product image, name, price, quantity, and subtotal.	Updates dynamically without full reload.
FR-2	Quantity Selector	Increase/decrease product quantity.	Numeric only + stock validation.
FR-3	Remove Button	Deletes one product from cart.	Updates total immediately.
FR-4	Clear Cart Button	Deletes all items.	Requires user confirmation.
FR-5	Stock Message	Shows “Only X available” if exceeding stock.	Appears in red below quantity.
FR-6	Cart Summary	Shows subtotal, tax, total.	Auto-updates dynamically.
FR-7	Proceed to Checkout	Redirect to checkout page.	Disabled if cart invalid.

4. Technical Requirements

ID	Description
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T1	Cart data persists via cookies or user session.
T2	All updates must reflect instantly (AJAX / JS).
T3	Quantity updates auto-trigger recalculation.
T4	Stock validation API check before checkout.
T5	Prevent adding inactive or unavailable products.
T6	Log all cart actions in database for analytics.
T7	Support Chrome, Edge, Firefox (latest).
T8	Response time < 3 seconds per action.
T9	Display placeholder if image or price fails to load.
T10	Clear guest cart data on logout/session timeout.

5. Non-Functional Requirements

ID	Category	Requirement
NFR1	Performance	Cart updates (add/remove/update) must execute under 3 seconds.
NFR2	Usability	UI must be simple, responsive, and intuitive.
NFR3	Security	Only authorized users can access saved cart data.
NFR4	Reliability	Cart data must not be lost after browser refresh or crash.
NFR5	Portability	Works across web and mobile versions.
NFR6	Maintainability	Code structure must support future scalability.
NFR7	Availability	Cart service should have 99% uptime.
NFR8	Compatibility	Must support all major browsers and screen sizes.

6. Test Cases

Test ID	Test Scenario	Steps	Expected Result
T1	Add product to cart	1- Open product page 2- “click” add to cart	Product appears in cart with correct price & quantity

T2	Remove product from cart	1-open cart Page 2-" click" remove	Product will be deleted from the cart
T3	Update product quantity	1-add item to cart 2- change quantity	The quantity will be updated, and the sub total and total will change
T4	Exceed Stock limit	1-stock "1" 2- user select "2"	The screen will display that there is only 1 in the stock
T5	Empty car	Remove all items from the cart	It will display "your cart is empty"
T6	Multiple product	1-add "shampoo" and "brush" 2- check total	It will display the brush code and shampoo code and their prices
T7	Cart total	1-Add products 2- add any number of quantities	It will add the products price and display it
T8	Price Validation	1- Add products 2- Check data base price	If database price match, then it passes
T9	checkout	1- Add valid item 2- Click "Checkout"	Cart data successfully passed to checkout page.

Date	Version	Prepared For	Author
6/10/2025	1.0	Eng.Abdelrahman Osama	Shahd Salah

1. Introduction

This section of the Software Requirements Specification focuses on the Orders & Account module of the Automation Exercise project. It covers all functionalities that occur after the checkout process, including order confirmation, viewing order history, downloading invoices, editing account information, and verifying successful order placement. This part belongs to Member 5 of the project team.

1.1 Purpose

The purpose of this document is to define the requirements and functional specifications for the Orders & Account section of the Automation Exercise website. The goal is to ensure smooth user interaction after an order has been successfully placed, providing full access to order information and user account management.

2. Functional Requirements

ID	Description
FR60	The system shall display an 'Order Confirmed' page after a successful checkout.
FR61	The system shall allow users to view their past orders in an 'Order History' section.
FR62	Each order entry shall display order ID, date, total amount, and status.

FR63	The system shall allow users to download invoices for completed orders in PDF format.
FR64	The system shall allow users to edit their account information including name, email, and password.
FR65	The system shall validate all account update fields before submission.
FR66	The system shall send an email notification to users after account information is updated.
FR67	The system shall ensure that post-checkout data (order ID, total price, date) matches checkout input data.

3. Technical Requirements

ID	Description
TR1	Order confirmation page must load within 3 seconds after successful payment.
TR2	Order history data should be retrieved from the database securely using HTTPS requests.
TR3	Invoice generation should use a standardized PDF template containing all order details.
TR4	Account update forms must use client-side validation for empty and invalid fields.

TR5	All API requests related to account or order data must use secure HTTPS protocols.
TR6	User data must be encrypted when transmitted and stored in the database.

4. Front-End Details

The Orders & Account module includes several interactive user interface components designed to provide clear visibility and management of order and account data.

Component	Description	Technical Notes
Order Confirmation Page	Displays message confirming successful order placement with summary details.	Includes order ID, date, and total. Redirects automatically after payment confirmation.
Order History Page	Shows list of all previous orders placed by the logged-in user.	Pagination enabled; latest order shown first. Option to download invoice.
Download Invoice Button	Allows users to download a PDF invoice for completed orders.	Triggers backend PDF generation API; downloaded securely via HTTPS.
Edit Account Page	Enables users to update name, email, or password.	Validates all input fields; password strength indicator included.

Post-Checkout Verification	Ensures that order data is consistent with checkout details.	Cross-checks total amount, order ID, and timestamp against checkout record.
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5. Summary

This SRS section defines the functional and technical requirements for the Orders & Account module, covering post-checkout activities such as order history, invoice download, and account management. It ensures that users can manage their post-order interactions efficiently, securely, and with clear system feedback.

DATE	VERSION	PREPARED FOR	AUTHOR
6-10-2025	1.0	Eng.Abdelrahman osama	Jomana khodir

SRS Document for Member 6 - Navigation & Static Pages + Cross-Browser

1. Introduction

1.1 Purpose

The purpose of this document is to specify the requirements for navigation and static pages testing on the Automation Exercise website. This includes verifying that links work correctly and that pages are displayed properly across multiple browsers.

1.2 Scope

The scope includes static pages such as Home, Contact Us, Test Cases, and Footer links. Testing includes navigation between pages and cross-browser layout verification on Chrome, Firefox, Edge, and Safari.

2. System Requirements (SR)

ID	Description
SR_001	Header links work correctly and open the expected pages.
SR_002	Footer links work correctly and navigate to proper pages.
SR_003	Clicking the site logo redirects user to the homepage.
SR_004	Static content pages (Contact Us, Test Cases) display completely and correctly.

3. Non-Functional Requirements (NFR)

ID	Description
NFR_001	Cross-browser compatibility: Pages render correctly on Chrome, Firefox, Edge, Safari.
NFR_002	Performance: Each page loads within 3 seconds on a stable internet connection.

NFR_003	Usability: Navigation between pages is clear and user-friendly.
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4. Test Scenarios / Test Cases Reference

Test Case ID	Description
TC_001	Verify homepage loads properly (Home Page Load).
TC_002	Verify all header navigation links work correctly (Header Navigation).
TC_003	Verify footer links redirect properly (Footer Links).
TC_004	Verify clicking logo redirects to homepage (Logo Navigation).
TC_005	Verify static content pages display correctly (Contact Us, Test Cases).
TC_006	Verify page layout and elements are consistent across browsers (Cross-Browser Layout).

5. Assumptions & Constraints

- All browsers are up-to-date.
- Users have stable internet connection.
- Static content pages remain unchanged during the testing period.