

## Requirements Gathering – BUGZ

System Under Test: [Automation Exercise](#)

### 1. Functional Requirements

ID	Feature	Description	Expected Behavior
FR1	User Registration	Users can sign up with personal details.	Users can sign up with personal details. New accounts should be created successfully with valid data; invalid inputs show error messages.
	<ul style="list-style-type: none"><li>• The system shall allow users to access the Signup/Login page from the homepage.</li><li>• The system shall display a New User Signup form containing fields for Name and Email.</li><li>• Upon clicking “Signup”, the system shall navigate to the Account Information page.</li><li>• The system shall require the following mandatory fields: Title, Name, Email, Password, Date of Birth, Address, Country, State, City, Zip Code, and Mobile Number.</li><li>• The system shall validate that the email address is unique before creating the account.</li><li>• After successful registration, the system shall display a message: “ACCOUNT CREATED!”.</li><li>• After clicking “Continue”, the user shall be automatically logged in and redirected to the homepage.</li><li>• The system shall display the text “Logged in as [username]” in the header when the user is logged in.</li></ul>		
FR2	User Login/Logout	Users can log in and log out.	Users can log in and log out. Successful login with valid credentials; error messages with invalid credentials.
	<ul style="list-style-type: none"><li>• The system shall allow users to access the Login section on the Signup/Login page.</li></ul>		

	<ul style="list-style-type: none"> <li>• The system shall require users to enter a valid Email and Password.</li> <li>• The system shall authenticate the user's credentials and grant access if they are valid.</li> <li>• The system shall display "Logged in as [username]" on successful login.</li> <li>• The system shall show an error message: "Your email or password is incorrect!" when invalid credentials are entered.</li> <li>• The system shall provide a Logout option when the user is logged in.</li> <li>• Clicking Logout shall end the user session.</li> <li>• After logout, the user shall be redirected to the Login page.</li> </ul>		
FR3	Product Browsing	Users can view products, categories, and filters.	Product pages load correctly, categories show filtered items, and images/details display.
FR4	Product Search	Search bar to find products by name.	Relevant products appear for valid keywords; error messages or empty results for invalid keywords.
FR5	Cart Management	Users can add, view update and remove products from the cart.	Allows users to manage their shopping cart by adding, viewing, updating, and removing products, continuing shopping, and maintaining cart data after login or registration.
	<ul style="list-style-type: none"> <li>• The system displays an <b>"Add to Cart"</b> button on all product listing and product detail pages.</li> <li>• When the user clicks <b>"Add to Cart,"</b> a confirmation popup appears displaying: "Your product has been added to cart."</li> <li>• The selected product is added to the cart with the correct <b>name, price, and quantity.</b></li> </ul>		

	<ul style="list-style-type: none"> <li>• The <b>Cart page</b> lists each product's image, name, unit price, quantity, and total.</li> <li>• Subtotal prices are calculated correctly based on selected quantities.</li> <li>• The <b>"Proceed to Checkout"</b> and <b>"Continue Shopping"</b> buttons are visible and functional.</li> <li>• Each cart item includes a <b>delete ("X")</b> icon that removes the product when clicked.</li> <li>• When all items are deleted, the message appears: "Cart is empty!"</li> <li>• Clicking <b>"Continue Shopping"</b> returns the user to the homepage while preserving existing cart contents.</li> <li>• Cart data remains saved after login or registration; items added before authentication remain visible afterward.</li> <li>• Cart totals and item details remain consistent before and after login.</li> <li>• When the cart is empty, the <b>"Proceed to Checkout"</b> button becomes hidden.</li> </ul>		
FR6	Checkout & Payment	Users can proceed to checkout and simulate payment	Allows users to proceed from the cart to checkout, provide delivery and billing details, review orders, and securely complete payment.
	<ul style="list-style-type: none"> <li>• Clicking <b>"Proceed to Checkout"</b> opens the checkout page.</li> <li>• If the user is not logged in, the system redirects them to the <b>Login/Signup</b> page.</li> <li>• If logged in, the checkout page displays the <b>order summary</b> and <b>address details</b>.</li> <li>• Delivery and billing address forms are displayed and validated; missing or invalid inputs show clear error messages.</li> <li>• An <b>address summary</b> appears in the order review section.</li> <li>• The system displays an order summary with items, quantities, and total price.</li> </ul>		

	<ul style="list-style-type: none"> <li>• The user can enter comments in the <b>“Comment”</b> text box before placing the order.</li> <li>• Clicking <b>“Place Order”</b> moves the user to the payment page.</li> <li>• The payment form displays fields for: <ul style="list-style-type: none"> <li>○ Name on Card</li> <li>○ Card Number</li> <li>○ CVC</li> <li>○ Expiration Date</li> </ul> </li> <li>• Input validation rules ensure: <ul style="list-style-type: none"> <li>○ <b>Name on Card:</b> only alphabetic characters and spaces, not empty.</li> <li>○ <b>Card Number:</b> exactly 16 digits, numeric only.</li> <li>○ <b>CVC:</b> exactly 3 digits, numeric only.</li> <li>○ <b>Expiration Date:</b> follows <b>MM/YY</b> format, valid month and non-expired year.</li> </ul> </li> <li>• Clicking <b>“Pay and Confirm Order”</b> submits the payment.</li> <li>• If any field is empty, an error message appears: “Please fill out this field.”</li> <li>• Upon success, the system displays: “Your order has been placed successfully!”</li> <li>• The confirmation page shows the order summary and <b>Order ID</b>.</li> <li>• A <b>“Download Invoice”</b> button becomes available.</li> <li>• After order completion, the <b>cart resets (becomes empty)</b> for the next purchase.</li> </ul>		
FR7	Contact Us Form	Page displays fields: Name, Email, Subject, Message, and optional file upload.	All fields are visible and properly labeled; layout is responsive across devices.
	<ul style="list-style-type: none"> <li>• The <b>Contact Us</b> page shall display a form with fields for <b>Name, Email, Subject, Message</b>, and an <b>optional file upload</b> input.</li> <li>• The system shall <b>validate required fields</b> and ensure the <b>email address follows the correct format</b>. <ul style="list-style-type: none"> <li>○ Empty or invalid fields shall trigger <b>inline error messages</b> until corrected.</li> </ul> </li> <li>• The system shall allow users to <b>attach a file</b> with the following supported formats: .txt, .jpg, .pdf, and .png. <ul style="list-style-type: none"> <li>○ Unsupported or oversized files (<b>&gt;5MB</b>) shall be rejected with a clear error message.</li> </ul> </li> </ul>		

	<ul style="list-style-type: none"> <li>Clicking the <b>“Submit”</b> button shall send the form data to the server. <ul style="list-style-type: none"> <li>Upon clicking, a browser alert shall appear: “Automationexercise.com says: Press OK to proceed.”</li> </ul> </li> <li>After successful submission, the system shall display a <b>confirmation message</b> indicating that the form was submitted successfully.</li> <li>The system shall handle invalid inputs or missing fields gracefully by: <ul style="list-style-type: none"> <li>Displaying appropriate error messages.</li> <li>Preventing form submission until all issues are resolved.</li> </ul> </li> </ul>		
FR8	Account Deletion	Allows logged-in users to permanently delete their accounts and all associated data from the platform.	Logged-in users can access the “Delete Account” option from their dashboard and use it.
	<ul style="list-style-type: none"> <li>Logged-in users shall have access to a <b>“Delete Account”</b> button within their <b>dashboard</b>. <ul style="list-style-type: none"> <li>The button shall be <b>visible and clickable only</b> when the user is authenticated.</li> </ul> </li> <li>Upon confirmation, the system shall <b>delete all user-related data</b> from the database. <ul style="list-style-type: none"> <li>Deleted data shall be <b>permanently removed</b> with <b>no recovery option</b>.</li> </ul> </li> <li>After successful deletion, the system shall display a <b>final confirmation message</b>: “ACCOUNT DELETED!”</li> <li>Once the account is deleted, the <b>user session shall terminate immediately</b>. <ul style="list-style-type: none"> <li>The user shall be <b>logged out</b> and <b>redirected</b> to the homepage or login screen.</li> </ul> </li> <li>Deleted users shall <b>no longer be able to log in</b> with the same credentials. <ul style="list-style-type: none"> <li>Login attempts with deleted credentials shall fail and display an appropriate <b>error message</b>.</li> </ul> </li> </ul>		

## 2. Non-Functional Requirements

ID	Category	Requirement	Expected Behavior
NFR1	Usability	The interface should be easy to use.	Navigation is intuitive; error messages are clear and helpful.
NFR2	Compatibility	Website should work across devices/browsers	Functional on Chrome, Firefox, Edge, and mobile devices.
NFR3	Reliability	The system should handle multiple users.	No crashes or errors when multiple users browse or checkout simultaneously.

## 3. User Stories & Use Cases

ID	User Story	Use Case	Expected Behavior
US1	As a new user, I want to create an account so I can shop.	The user signs up with valid details.	An account is created, and confirmation is shown.
US2	As a returning user, I want to log in so I can access my account.	User enters email & password.	Login is successful, and the user is redirected to their account.
US3	As a shopper, I want to browse and search products so I can find what I need.	The user views categories and uses a search bar.	Relevant products are displayed with correct details.
US4	As a shopper, I want to add items then view the items in my cart so that I can review them before checkout.	1. User clicks "Add to cart" on any product. 2. A popup confirmation appears ("Your product has been added to cart"). 3. User can click "View Cart". 4. The cart page shows product image, name, quantity, and price.	All added items are listed correctly, subtotal matches the item prices, and the "Proceed To Checkout" button is visible.
US5	As a shopper, I want to add items to my cart so I can purchase them later.	1. User clicks "Add to cart" on any product. 2. A popup confirmation appears ("Your product has been added to cart").	Items are added to cart, with accurate prices and found at any time in the cart icon.

		3. User can click "View Cart" later to view the added items or click "Continue Shopping"	
US6	As a shopper, I want to update quantities in my cart so I can adjust my purchase.	1.User clicks "Home" 2. User clicks "Add to cart" on the product want to increase. 3.A popup confirmation appears ("Your product has been added to cart"). 4. User can click "View Cart". 5. The Cart page displays the product image, name, updated quantity, and price.	Quantity and subtotal update correctly.
US8	As a shopper, I want to see a clear message when my cart is empty so that I know no items are selected for purchase.	1.User clicks the "Cart" page	The cart page contains the message "Cart is empty! Click here to buy products."
US9	As a shopper, I want to remove items from the cart so I can discard unwanted products.	1. User clicks the "X" (delete) icon beside an item. 2. System removes the item from the cart.	Item disappears from cart list, message "Cart is empty!" is displayed if no items remain.
US10	As a registered shopper, I want to proceed to the checkout so I can confirm my order.	1. User clicks "Proceed To Checkout" on the Cart page. 2. If not logged in, user is redirected to the login/signup page. 3. If logged in, user is taken to checkout.	Redirects correctly depending on login status. Order summary displays correctly.
US11	As a new user, I want to enter my delivery details so that I can receive my order.	1.user sign up with name and email 2.system redirected the user to another	All required fields (name, address, country, etc.) must be filled.

		<p>page to fill user details and delivery address</p> <p>2. User clicks create account button</p> <p>5. System redirects the user to a page with the message "Account Created!"</p> <p>Congratulations! Your new account has been successfully created!</p> <p>You can now take advantage of member privileges to enhance your online shopping experience with us.</p> <p>"</p> <p>6. User clicks continue button to be directed to home page</p>	Validation errors appear for missing/invalid data.
US12	As a shopper, I want to add a comment about my order before payment.	<p>1. User enters text in the "Comment" field on checkout page.</p> <p>2. User clicks "Place Order."</p>	Comment is recorded with the order. User is redirected to payment page.
US13	As a shopper, I want to make secure payment so I can complete my purchase.	<p>1. User enters payment details (name on card, card number, CVC, expiration date).</p> <p>2. User clicks "Pay and Confirm Order."</p>	Payment form validates card fields. Success message "Your order has been placed successfully!" is shown.
US14	As a shopper, I want to see confirmation after payment so I know my order was successful.	After payment, the system displays a success message and "Download Invoice" link.	Confirmation page appears. Invoice download works. Cart becomes empty for the next order.
US15	As a user, I want to contact support so I can get help, share feedback or ask a question.	The user navigates to the "Contact Us" page. The system displays the contact form with fields: Name, Email, Subject, Message, and optional file upload.	system should display a browser alert stating "Automation exercise.com says: Press OK to proceed." Upon confirmation, the



		<p>The user fills in the required fields and optionally attaches a file.</p> <p>The user clicks the "Submit" button.</p> <p>The system validates the inputs.</p>	<p>form data is submitted, and a success message is shown if the submission is valid.</p>
US16	<p>As a user, I want to delete my account if needed so I can remove my data and discontinue using the platform.</p>	<ol style="list-style-type: none"> <li>1. Users log into the platform.</li> <li>2. The user selects the "Delete Account" option.</li> <li>3. The system displays a confirmation prompt explaining consequences, with the message "ACCOUNT DELETED!"</li> <li>4. System deletes account and associated data.</li> </ol>	<p>The system should prompt for confirmation, remove all associated data, revoke access, and display a final message confirming successful deletion.</p>
US17	<p>As a user, I want to see all products so that I can browse and view product details.</p>	<p>The user clicks the "Products" button.</p>	<p>All products are displayed, and the user can click on any product to view its details, including name, price, category, review, availability, brand name, and condition.</p>
US18	<p>As a user, I want to search for a specific product so that I can</p>	<p>The user enters the product name or a</p>	<p>Products related to the entered keyword appear</p>

	quickly find what I'm looking for.	keyword in the search box.	in the search results.
US19	As a user, I want to view products filtered by gender so that I can easily find items for men, women, or kids.	The user selects a gender category (Women, Men, Kids).	Products related to the selected gender appear on the page.
US20	As a user, I want to view products by brand name so that I can explore items from my preferred brands.	The user clicks on a brand name.	Products related to the selected brand appear on the screen.