# **Requirement Analysis (Automation Exercise - Products & Carts Page)**

Project : Automation Exercise - Products & Carts Pages

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## **1. Scope**

Testing of the Product and Cart pages on the Automation Exercise website, covering the user interface testing and API endpoint testing.

## **2. Objective**

Ensuring that all functionalities on the product and cart pages operate according to business requirements, both from the user interface and the data/backend (API) perspectives.

## **3. Functional Requirements**

### UI Functional Requirements

| **No** | **Feature** | **Description** |
| --- | --- | --- |
| 1 | Display All Product | Display all available products on the product listing page. |
| 2 | Search Product | Display relevant products based on the user's search keywords. |
| 3 | View Specific Product | View detailed information of a selected product. |
| 4 | Select Specific Category | Users can select any available category and view products under it. |
| 5 | Select Brand | Users can select a brand to view all related products. |
| 6 | Add to Chart | Add selected product(s) to the shopping cart. |
| 7 | Cart Page Display | Display all items in the cart along with quantity and total price. |
| 8 | Write a Review | Allow users to write and submit a product review. |
| 9 | Remove Item from Cart | Remove a specific item from the cart. |
| 10 | Increase Quantity for Item in Cart | Increase the quantity of a product in the cart. |
| 11 | Decrease Quantity for Item in Cart | Decrease the quantity of a product in the cart. |
| 12 | Proceed to Checkout | Redirect users to the checkout page to complete the purchase. |

### API Functional Requirements

| **No** | **API** | **Description** |
| --- | --- | --- |
| 1 | GET All Products List | Retrieves a list of all available products in the system. |
| 2 | POST To All Products List | Adds new product data to the product list. Typically used by admin users (not accessible to all users). |
| 3 | GET All Brands List | Retrieves a list of all brands available on the platform. |
| 4 | PUT To All Brands List | Updates brand information. Usually performed by admin users. |
| 5 | POST To Search Product | Searches for products based on the keyword entered by the user. |
| 6 | POST To Search Product Without search\_product parameter | Attempts to search for products without providing the search\_product parameter. |

## **4. Non-Functional Requirements**

| **No** | **Type** | **Requirement Description** |
| --- | --- | --- |
| 1 | Compatibility | The website must be fully functional and display correctly on Chrome, Firefox, and Safari browsers. |
| 2 | Security | Only authenticated users are allowed to proceed to the checkout process. |
| 3 | Performance | The website must load within 3 seconds under normal network conditions. |
| 4 | Responsiveness | The website layout must adapt correctly to various screen sizes (desktop, tablet, mobile). |
| 5 | Localization | The website must support multiple language options for users. |

## **5. Acceptance Criteria**

* All functional requirements are working as expected.

## **6. Reference**

* Website :
  + <https://www.automationexercise.com/products>
  + <https://www.automationexercise.com/view_cart>
  + <https://www.automationexercise.com/api_list>