

**AutomationE E-Commerce Website
Testing Project**

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Introduction

Project Overview

AutomationExercise is a thorough training website for automation engineers of all skill levels, from beginners to experts. QA engineers may practice automated and API testing using the website's many features and functions. AutomationExercise helps users improve their automation abilities by offering a broad variety of scenarios and components, so they are well-prepared for testing issues that arise in the real world.

Purpose and Objectives

This project's main goal is to analyze and improve the AutomationExercise website's functionality using Playwright, a modern automation framework. The following goals are the focus of this project:

- Use automated testing to verify that the different functionalities offered on the AutomationExercise website work as intended.
- Create and implement user stories together with the matching acceptance criteria to guarantee thorough test coverage.
- Make thorough test strategies and scenarios that address various aspects of the operation of the website.
- To increase productivity and automate the testing process, use Playwright automation scripts.
- Examine and record test findings, including analysis and suggestions for any problems or enhancements found.

User Stories and Acceptance Criteria

User Story 1 : Register User

As a user,

I want to create a new account with personal and contact information, and have the ability to delete my account when necessary.

Acceptance Criteria:

Scene 1: Creating a New Account

Given I am on the registration page

When I fill in personal and contact information

And I submit the registration form

Then a new account is created successfully

Scene 2: Deleting My Account

Given I am logged into my account

When I navigate to the account settings

And I initiate the account deletion process

Then I confirm the deletion request

And my account is permanently deleted

And I am logged out from all sessions

User Story 2 : Login User with correct email and password

As a user,

I want to successfully log into my account, delete it,

So that I can manage my account effectively.

Acceptance Criteria:

Given I am on the login page

And I have registered credentials

When I enter my correct email and password

And I click on the login button

Then I should be redirected to my account dashboard

And I should see a success message confirming my login

User Story 3 : Login User with incorrect email and password

As a user,

I want to receive clear error message when I attempt to log in with incorrect email and password combinations,

So that I can retry with correct credentials.

Acceptance Criteria:

Given I am on the login page

When I enter an incorrect email or password

And I click on the login button

Then I should receive an error message stating "Incorrect email or password"

And I should remain on the login page without being redirected

User Story 4 : Logout User

As a user,

I want to be able to logout from my account easily,

So that I can securely end my session.

Acceptance Criteria:

Given I am logged into my account

When I navigate to the logout option or click on the logout button

Then I should be logged out from my account

And I should be redirected to the login page or a logged-out state

And I should no longer have access to my account features without logging in again

User Story 5 : Register User with Existing Email Address

As a user,

I want to receive a clear message when I attempt to register with an email address that is already in use,

So that I can choose a different email or attempt to log in instead.

Acceptance Criteria :

Given I am on the registration page

And there is already a user registered with the email address I am trying to use

When I enter the existing email address and submit the registration form

Then I should receive an error message stating "Email address already exists"

And I should remain on the registration page without the form being submitted

User Story 6 : Contact Us Form Submission

As a user,

I want to be able to fill out and submit a "Contact Us" form with my name, email address, message, and selected topic,

So that I can send inquiries or feedback to the organization.

Acceptance Criteria:

Scene 1

Given I am on the "Contact Us" page

When I fill out the form with valid information including my name, email address, message, and a topic

And I click on the submit button

Then The form should be submitted successfully

And I should receive a confirmation message that my message has been sent

Scene 2

Given I am on the "Contact Us" page

When I attempt to submit the form with an invalid email format

Then I should receive specific error messages indicating which fields need to be corrected or filled out

And I should remain on the "Contact Us" page with my previously entered information still visible

User Story 7 : Verify Test Cases Page

As a user,

I want to verify that I can navigate to the test cases page successfully,

So that I can access and review test cases related to the application.

Acceptance Criteria

Given I am on the home page of the website

When I navigate to the test cases section or click on a link/button to access the test cases

Then I should be redirected to the test cases page

And I should see the relevant test cases displayed on the page

User Story 8 : Verify Products and Product Detail Page

As a user,

I want to randomly click on products and verify that their details (such as name, category, price, availability, condition, and brand) are visible on the product detail page,

So that I can make decisions about the products whether to buy or not.

Acceptance Criteria

Given I am on the homepage or product listing page

When I randomly click on a product image or its associated link

Then I should be navigated to the product detail page

And I should see the product name, category, price, availability, condition, and brand.

User Story 9 : Search Product

As a user,

I want to search for a product by entering its name in the search input on the products page and verify that the search results display the needed products,

So that I can find specific products quickly and easily.

Acceptance Criteria

Scene 1

Given I am on the products page

When I enter a product name in the search input field

And I click on the search button

Then I should see search results that match the product name I entered

Scene 2

Given I am on the products page

When I enter a product name in the search input field that does not match any products

And I click on the search button

Then I should see a message indicating that no products were found

User Story 10 : Verify Subscription on Homepage

As a user,

I want to enter my email address in the subscription input field on the homepage and verify that a success message is displayed upon successful subscription,

So that I know I have been subscribed.

Acceptance Criteria:

Scene 1

Given I am on the homepage

When I enter a valid email address in the subscription input field

And I click on the arrow button to submit

Then I should see a success message saying "Successfully subscribed!"

And I should remain on the homepage.

Scene 2

Given I am on the homepage

When I enter an invalid email address in the subscription input field

And I click on the arrow button to submit

Then I should see an error message indicating the email address is invalid

And I should be able to correct the email address without a problem.

Scene 3

Given I am on the homepage

When I enter a valid email address that is already subscribed

And I click on the arrow button to submit

Then I should see an error message indicating the email address is already subscribed

And I should remain on the homepage with the ability to try another email address

User Story 11 : Verify Subscription on Cart Page

As a user,

I want to enter my email address in the subscription field on the cart page and verify that a success message is displayed upon successful subscription,

So that I know I have been subscribed.

Acceptance Criteria

Scene 1

Given I am on the cart page

When I enter a valid email address in the subscription field

And I click on submit

Then I should see a success message saying "You have subscribed!"

And I should remain on the cart page.

Scene 2

Given I am on the cart page

When I enter an invalid email address in the subscription input field

And I click on submit

Then I should see an error message indicating the email address is invalid

And I should be able to correct the email address.

Scene 3

Given I am on the cart page

When I enter a valid email address that is already subscribed

And I click on submit

Then I should see an error message indicating the email address is already subscribed

And I should remain on the cart page with the ability to try another email address.

User Story 12 : Add Products to Cart

As a user,

I want to add products to my cart and verify that the correct products are in my cart,

So that I can ensure I am purchasing the right items.

Acceptance Criteria:

Scenario: Add Products to Cart and Verify Cart Contents

Given I am on the product detail page

When I click the "Add to Cart" button

Then the product should be added to my cart

And I should see a confirmation message indicating the product has been added to my cart

Given I have added a product to my cart

When I navigate to the cart page

Then I should see the product listed in my cart

And the product details (name, category, price, availability, condition, brand) should match the product I selected

Given I have multiple products in my cart

When I review the items in my cart

Then each product's details should accurately reflect the products I added

User Story 13 : Verify Product quantity in Cart

As a user,

I want to verify that when I add a product to the cart and increase its quantity, the correct quantity is displayed on the cart page,

So that I can be sure I am purchasing the desired amount of the product.

Acceptance Criteria:

Scene: Add Product to Cart and Verify Quantity

Given I am on the product detail page

When I click the "Add to Cart" button

Then the product should be added to my cart

And I should see a confirmation message indicating the product has been added to my cart

Given I have added a product to my cart

When I increase the quantity of the product

Then the quantity should be updated in my cart **And** I should see a confirmation message indicating the quantity has been updated

User Story 14 : Place Order: Register while Checkout

As a user,

I want to place an order by registering while checking out and then delete my account after the order is placed,

So that I can complete my purchase and manage my account according to my preferences.

Acceptance Criteria

Scene: Place Order

Given I am on the cart page with products added

When I proceed to checkout

Then I should be given the option to register for an account if I am not already logged in

And I should be able to enter my personal details (name, email, password) to register

Scene : Register While Checkout

Given I have entered my personal details to register

When I complete the registration process

Then I should be automatically logged in

And I should be redirected to the checkout page to complete my order

Scene : Checkout

Given I am on the checkout page as a registered user

When I enter my shipping and payment information

And I place the order

Then I should see an order confirmation message indicating that my order has been successfully placed

Scene : Delete Account

Given my order has been successfully placed

When I need to see my account settings

And I choose to delete my account

Then I should see a confirmation message indicating that my account has been deleted

And I should no longer be able to log in with the deleted account credentials

User Story 15 : Place Order: Register before Checkout

As a user,

I want to register before checking out, place my order, and then delete my account,

So that I can complete my purchase and manage my account according to my preferences.

Acceptance Criteria

Scene : Get Registered

Given I am on the website

When I choose to register for an account

Then I should be able to enter my personal details and successfully create an account

And I should see a confirmation message indicating that my account has been created

Scene : Login and Add to cart

Given I have successfully registered an account

When I log in with my new account credentials

And I add products to my cart

Then I should see the products listed in my cart

Scene : Checkout

Given I have products in my cart

When I proceed to checkout

And I enter my shipping and payment information and I place the order

Then I should see an order confirmation message indicating that my order has been successfully placed

Scene : Delete account

Given my order has been successfully placed

When I go to my account settings

And I choose to delete my account

Then I should see a confirmation message indicating that my account has been successfully deleted

And I should no longer be able to log in with the deleted account credentials

User Story 16 : Place Order: Login before Checkout

As a user,

I want to log in before checking out, place my order, and then delete my account,

So that I can complete my purchase and manage my account according to my preferences.

Acceptance Criteria:

Scene: Login

Given I am on the website

When I choose to log in with my account credentials

Then I should be successfully logged in

And I should see a welcome message or be redirected to the homepage or my account dashboard

Scene : Add to cart

Given I have successfully logged in

When I add products to my cart

Then I should see the products listed in my cart

Scene : Checkout

Given I have products in my cart

When I proceed to checkout

And I enter my shipping and payment information

And I place the order

Then I should see an order confirmation message indicating that my order has been successfully placed

Scene : Delete account

Given my order has been successfully placed

When I navigate to my account settings

And I choose to delete my account

Then I should see a confirmation message indicating that my account has been successfully deleted

And I should no longer be able to log in with the deleted account credentials

User Story 17 : Remove Products from Cart

As a user,

I want to remove products from my cart and verify that they are no longer listed in the cart,

So that I can update my cart contents according to my preferences.

Acceptance Criteria:

Given I am on the cart page

When I click the "Remove" button next to the product

Then the product should be removed from my cart

And I should see a confirmation message indicating the product has been removed

And the product should no longer be listed in my cart

User Story 18 : View Category Products

As a user,

I want to view products by category to ensure that I see all relevant products under a specific category,

So that I can easily find and browse products of interest.

Acceptance Criteria

Given I am on the homepage or any page with category links

When I click on a category link

Then I should be navigated to the category page

And I should see the correct category name displayed at the top of the page

And I should see a list of products that belong to the selected category

Given I am on the category page

When I view the products listed

Then each product should display the correct details including name, image, price, and any other relevant information

And all the products should belong to the selected category

Given I am on the category page

When I click on a product

Then I should be navigated to the product detail page

And the product details should match the selected product

User Story 19 : View and Cart Brand Products

As a user,

I want to view products by a specific brand and add them to my cart,

So that I can shop for products from my preferred brand and easily make a purchase.

Acceptance Criteria:

Given I am on the brand page

When I select a brand

Then I should see products belonging to that brand displayed

And each product should show details such as name, image, price.

User Story 20 : Search Products and Verify Cart After Login

As a user,

I want to search for products, add them to my cart, log in, and verify that the correct products are still in my cart,

So that I can continue shopping.

Acceptance Criteria:

Scene: Search Products

Given I am on the homepage or product listing page

When I search for a specific product using the search bar

Then I should see relevant products matching my search query

Scene : Add to cart

Given I am viewing search results

When I add a product to my cart

Then the product should be added to my cart

And I should see a confirmation message indicating the product has been added

Scene : Login

Given I have added products to my cart

When I log in to my account

Then I should be successfully logged in

And I should see all previously added products still in my cart

And the product details such as name, category, price, quantity should match what I added.

User Story 21 : Add Review on Product

As a user,

I want to be able to add a review for a product,

So that I can share my feedback and experiences with other users.

Acceptance Criteria:

Given I am on the product detail page

When I find the review section or add review button

Then I should see a form to put my name, email, review, and title

And options to submit the review

Then I should receive a confirmation message that my review has been added.

User Story 22 : Add to Cart from Recommended Items

As a user,

I want to add a recommended item to my cart directly from the home page.

Acceptance Criteria:

Given I am on the home page

When I see a product in the recommended items section

And I click "Add to Cart"

Then the product should be added to my cart

And I should see a confirmation message

Given I have added a product to my cart from recommended items

When I view my cart

Then the product should be listed with accurate details

User Story 23 : Verify Address Details in Checkout

As a user,

I want to review and ensure the accuracy of my address details during checkout.

Acceptance Criteria:

Given I am on the checkout page

When I view the address section

Then I should see my billing address and delivery address displayed

Given I have completed the checkout process

When I find the option to delete my account

Then I should see a confirmation message to verify my decision

Given I confirm my decision to delete my account

When I proceed with the deletion process

Then my account should be permanently deleted from the system

And I should receive a confirmation message that my account has been deleted.