### **Test Plan**

#### **1. Test Plan Overview**

This test plan outlines the testing approach for automating a scenario on the website https://automationexercise.com/. The test case will simulate a user navigating the website, adding a product to the cart, registering an account, making a purchase, and submitting a contact form.

#### **2. Scope**

The test will cover the following functionalities:

* Navigation to the website
* Product selection and quantity update
* Adding a product to the cart
* User registration and account creation
* Checkout process
* Adding comments and payment details
* Form submission and logout

#### **3. Objectives**

* Validate that the user can navigate the website and interact with various elements.
* Ensure that the product can be added to the cart and quantity updated.
* Verify the user registration and account creation process.
* Confirm the functionality of the checkout and payment process.
* Test the contact form submission.

#### **4. Test Environment**

* Browsers: Chrome, Firefox, Safari
* Platform: Web (Desktop)

#### **5. Assumptions**

* The website is accessible and functional.
* Test data (e.g., user details) is available and valid.
* The necessary tools (e.g., Cypress) are installed and configured.

#### **6. Test Deliverables**

* Automated test scripts
* Test results and logs
* Defect reports (if any)

#### **7. Risks and Contingencies**

* Potential website downtime.
* Changes to the website's UI elements.
* Browser-specific issues.

### **Test Strategy**

#### **1. Test Approach**

* Use Cypress for end-to-end test automation.
* Implement tests to simulate user interactions and validate expected outcomes.
* Utilize Cypress commands to interact with the website's elements.

#### **2. Test Design**

* Test Cases:
  + Navigation and product selection
  + Product quantity update and cart addition
  + User registration and account creation
  + Checkout process and payment
  + Contact form submission and confirmation

#### **3. Test Execution**

* Tests will be executed in the defined test environment.
* Each test case will be automated using Cypress and executed in sequence.

#### **4. Entry and Exit Criteria**

* Entry Criteria:
  + Website is up and running.
  + Test environment is set up.
  + Test data is ready.
* Exit Criteria:
  + All test cases executed.
  + All defects reported and retested.
  + Test results documented.

#### **5. Tools and Technologies**

* Test Automation Tool: Cypress
* Programming Language: JavaScript
* Version Control: Git
* Test Management: Jira (optional for defect tracking)

### **Test Case**

| **Step** | **Action** | **Expected Outcome** |
| --- | --- | --- |
| 1 | Go to the test website | User navigates to the website |
| 2 | Choose a product | User clicks on a product link |
| 3 | Add a quantity of 30 to the product | User clears the quantity input and types 30 |
| 4 | Add the product to the cart | User clicks the "Add to Cart" button |
| 5 | View the cart | User clicks on the "View Cart" link |
| 6 | Proceed to checkout | User clicks the "Proceed to Checkout" button |
| 7 | Register an account | User clicks on the "Register" link |
| 8 | Fill in registration form | User fills in registration details and clicks the signup button |
| 9 | Fill in user information | User fills in required user information and clicks the create account button |
| 10 | Continue after creating an account | User clicks on the continue button |
| 11 | Go back to the cart | User clicks on the cart link |
| 12 | Proceed to checkout | User clicks the "Proceed to Checkout" button |
| 13 | Add a comment and proceed to payment | User adds a comment in the comment box and clicks the payment link |
| 14 | Add payment info | User fills in payment details and clicks the pay button |
| 15 | Continue with the purchase | User clicks on the continue button |
| 16 | Log out | User clicks on the logout link |
| 17 | Log in | User logs back in using email and password |
| 18 | Go to contact us page | User clicks on the contact us link |
| 19 | Fill out the contact form | User fills out the contact form with name, email, subject, and message |
| 20 | Submit the contact form and confirm | User clicks the submit button and accepts the confirmation popup |