

	<b>TEST STRATEGY</b>	JUNE 2023
		Automation Exercise

## WEBSITE: AUTOMATION EXERCISE

### Test Plan, Design and Strategy

	<b>TEST STRATEGY</b>	JUNE 2023
		Automation Exercise

## Content

1. Introduction .....	3
2. Scope .....	3
2.1 Automatable Functionalities .....	3
2.2 Non-Automatable Functionalities .....	4
2.3 User Flow .....	4
3. Roles and Responsibilities .....	4
4. Risks Management y Emergency Preparedness .....	5
5. Test Environment and Testing Tools.....	5
5.1 Environment .....	5
5.2 Testing Tools .....	5
6. Automation Software Architecture .....	6
7. Acceptance Criteria .....	6
7.1 Entry Criteria .....	6
7.2 Exit Criteria .....	7
8. Automated Tests Planning.....	7
8.1 Timeline .....	7
8.2 Automation Sprint Planning .....	8
9. Test Results.....	8
9.1 Test Matrix .....	8
9.2 Test Report.....	8

	<b>TEST STRATEGY</b>	JUNE 2023
		Automation Exercise

## 1. Introduction

This document describes the test automation strategy will be implemented as part of the “Automation Exercise” Project. Among the special points, the following stand out: scope, risks and emergency preparedness, environment and testing tools, design pattern, acceptance criteria, design and test execution; and test report.

## 2. Scope

The type of testing will be implemented, it will be black box (tests based on functionalities). It will manage the following techniques:

- Equivalence partitioning -> the idea behind the technique is to divide a set of test conditions into groups or sets that can be considered as same. Partitioning usually happens for test objects, which includes inputs, outputs, internal values, time-related values, and for interface parameters.
- Boundary value analysis (BVA) -> consisting of numeric or sequential data. The minimum and maximum values of a partition are its boundary values.

On the other hand, the test cases covered will be automated for desktop and mobile versions.

### 2.1 Automatable Functionalities

- Home Screen
- Product Details
- Cart and Cart Summary
- Check Out
- Account Creation / Sign Up
- Sign In
- Address
- Payment
- Order Confirmation
- Contact Us

	TEST STRATEGY	JUNE 2023
		Automation Exercise

## 2.2 Non-Automatable Functionalities

Accessibility is not included.

## 2.3 User Flow

1. User lands on the page and scroll to the middle.
2. User chooses a product and clicks on “View product” at the bottom of the image.
3. User enters the value 30 in the quantity field.
4. User clicks on “Add to cart” and after clicking on “View cart”.
5. User clicks on “Proceed to checkout”.
6. User enters an email and clicks on “Register/Log in”.
7. User enters a name and email in “New User Sign up”.
8. User enters the rest of the information and clicks on “Create Account”.
9. User clicks on “Continue” located below of the title “Account Created!”.
10. User clicks on the shopping cart located on the header.
11. User clicks on “Proceed to checkout”.
12. User enters a comment and clicks on “Place Order”.
13. User enters the information about fake credit card and clicks on “Pay and Confirm Order”.
14. User clicks on the continue button.
15. User clicks on “Log out” at the top on the header.
16. User enters the previously created account in “Log in your account”.
17. User clicks on the “Contact Us” located on the header.
18. User fills out the form and clicks on the submit button.
19. User clicks on “OK” button localized on the pop-up.
20. User clicks on the “Log out” button on the header.

## 3. Roles and Responsibilities

Roles	Responsibilities
QA Leader	Automation Testing planning and control Report the testing progress
Automation Engineer / QA Analyst	Automation Test analysis and test design Automated test execution Report defects/bugs Reporting the tests results
Product Owner / Stakeholders	Decisions making

	TEST STRATEGY	JUNE 2023
		Automation Exercise

#### 4. Risks Management y Emergency Preparedness

N	Risk	Probability (1-5)	Impact (1-5)	Severity (Pro * Imp)	Emergency Preparedness
1	Changes request in the automated test cases.	3	4	12	Prioritize the changed functionalities list for the next sprint.

#### 5. Test Environment and Testing Tools

##### 5.1 Environment

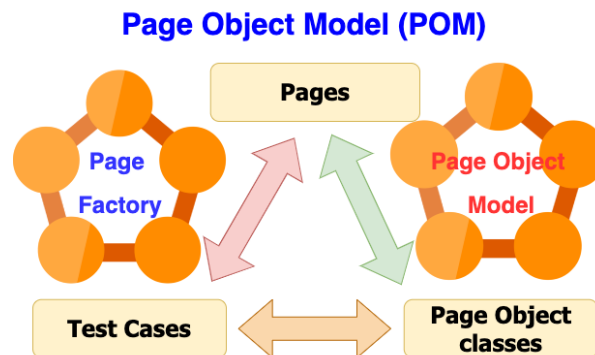
The testing environment is “Automation Exercise website”: <https://www.automationexercise.com/>

##### 5.2 Testing Tools

Tools	Description
Cypress (JavaScript)	Framework in order to automate the test cases of the project.
Viewport (Desktop and Mobile)	Desktop -> 1920 x 1080 Mobile -> 390 x 844
Cypress Test Runner	It is a graphical user interface (GUI) that allows you to easily visualize and debug your tests. Also, shows the test results (failed, passed and skip test cases).
Browsers: Chrome and Electron.	Instances where the tests will be run.
Operating Systems	Windows and Mac
Faker Plugin	It is a popular library that generates fake (but reasonable) data that can be used for things.

	<b>TEST STRATEGY</b>	JUNE 2023
		Automation Exercise

## 6. Automation Software Architecture



The project architecture is based on the **POM** (Page Object Model), which is a trending technique used in test automation in the Quality Engineering world. Simply put, the Page Object Model refers to using the Objects/Classes to depict and represent all the locators and functions (Components used for the automation) related to that particular page in a web application.

With the Page Object Model, you can simply break down a whole web application into multiple pages and use classes to depict those pages. In this way, each page in the web application corresponds to a particular class in the Page Object. Also sometimes a single page in the application can be used across multiple classes in the Page Object, according to the functionalities of the page.

## 7. Acceptance Criteria

### 7.1 Entry Criteria

- The environment should be ready for testing previously.
- The website should have been tested manually.
- The high and blockers bugs should have been tested and closed previously.
- The Cypress framework should be installed and ready.
- The website pages should have some **data-qa data-testid**, **id** or **class** (not recommended) in order to localize the elements of the pages.

	TEST STRATEGY	JUNE 2023
		Automation Exercise

## 7.2 Exit Criteria

- The most functionalities have been automated (>90%).
- The test cases have been executed successfully.
- There are not high and several open bugs.

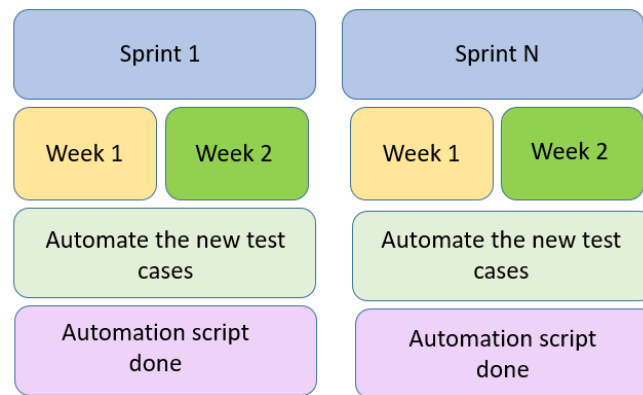
## 8. Automated Tests Planning

### 8.1 Timeline

Sprint	Functionalities (Pages)	Days	Commentaries
1	Home Screen	1	
	Product Details	0,5	
	Cart and Cart Summary	1	
	Check Out	1,5	
	Account Creation / Sign Up	2	
	Sign In	0,5	
	Address	1	
	Payment	0,5	
	Order Confirmation	0,5	
	Contact Us	1,5	
	Total	10	Sprint every 2 weeks
N			

	TEST STRATEGY	JUNE 2023
		Automation Exercise

## 8.2 Automation Sprint Planning



The automation tasks should start after the manual tests have finished. The sprint will be 2 every weeks, the automation team should begin the development of the automation scripts by pages or functionalities. The team will do continuous deliveries during the sprint and at the end of the sprint should be done all planned automation scripts.

## 9. Test Results

### 9.1 Test Matrix



Test Matrix.xlsx

### 9.2 Test Report

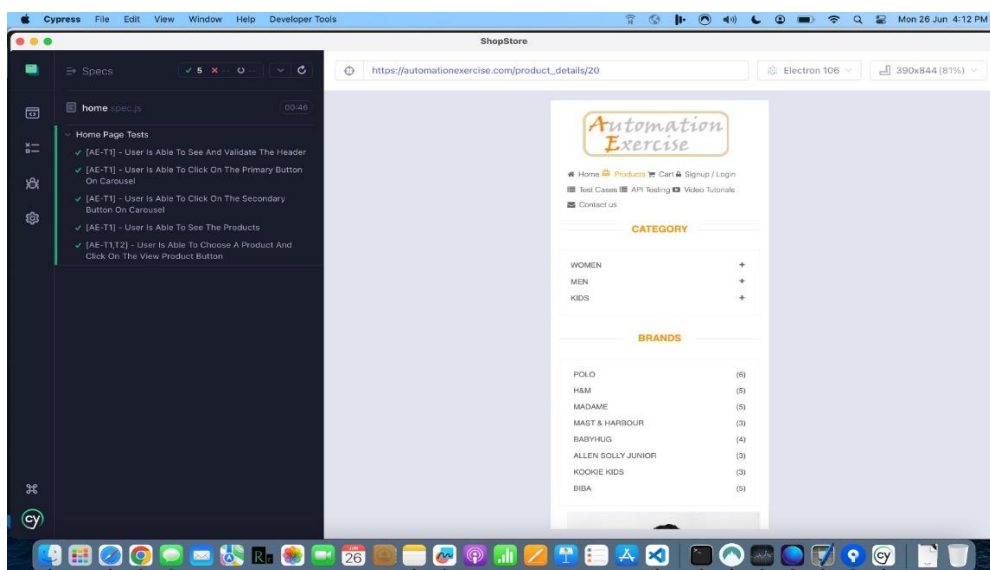
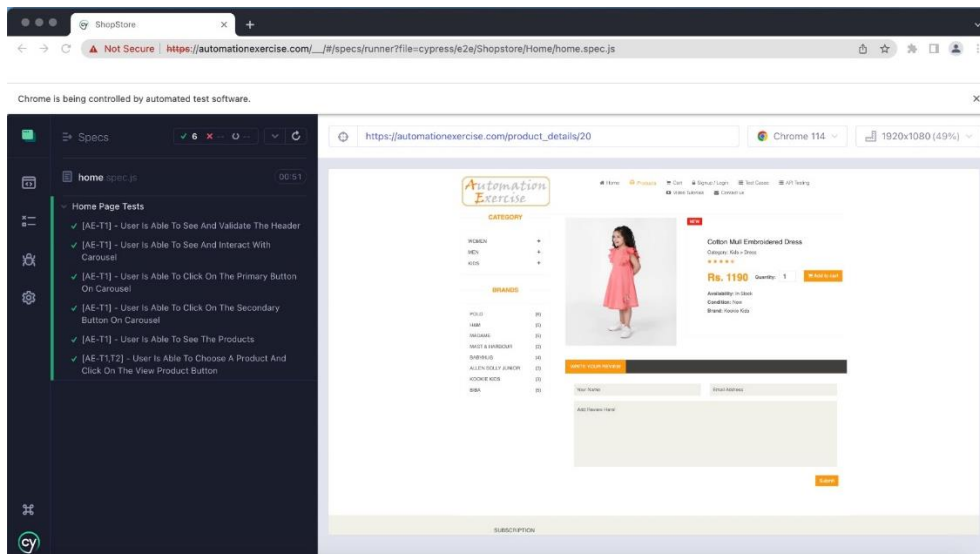
Devices	Total Test Cases	Passed Test Cases	Failed Test Cases	Non- Automated Test Cases
Desktop (1920 x 1080)	47	35	0	12
Mobile (390 x 844)	47	35	0	12



	<b>TEST STRATEGY</b>	JUNE 2023
		Automation Exercise

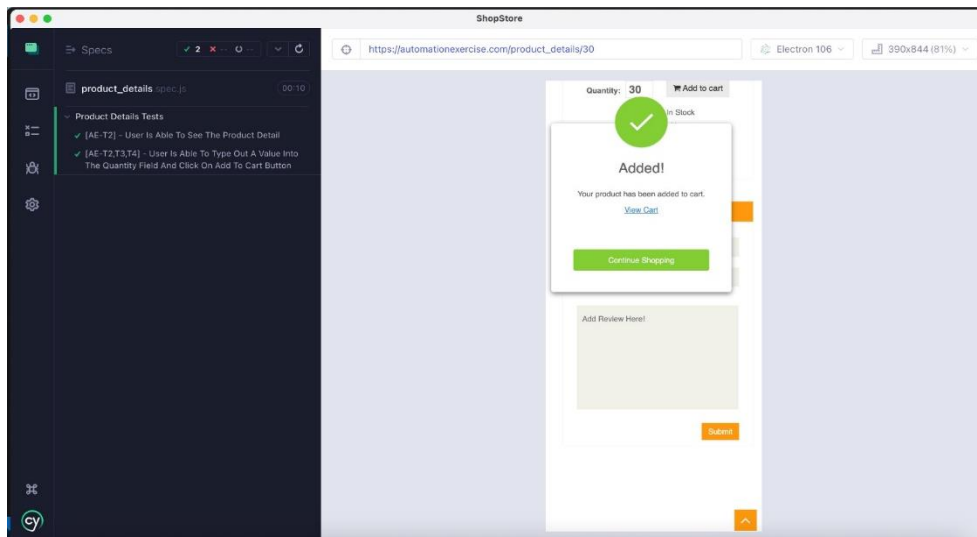
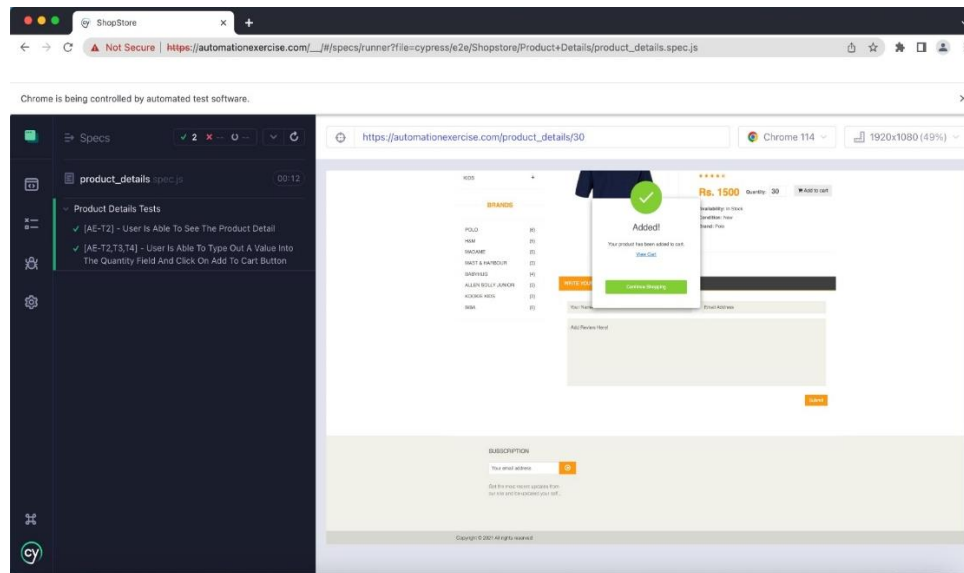
The test report will be shown with some screenshots of the Cypress Test Runner for all automated modules.

- Home Screen (Desktop and Mobile)



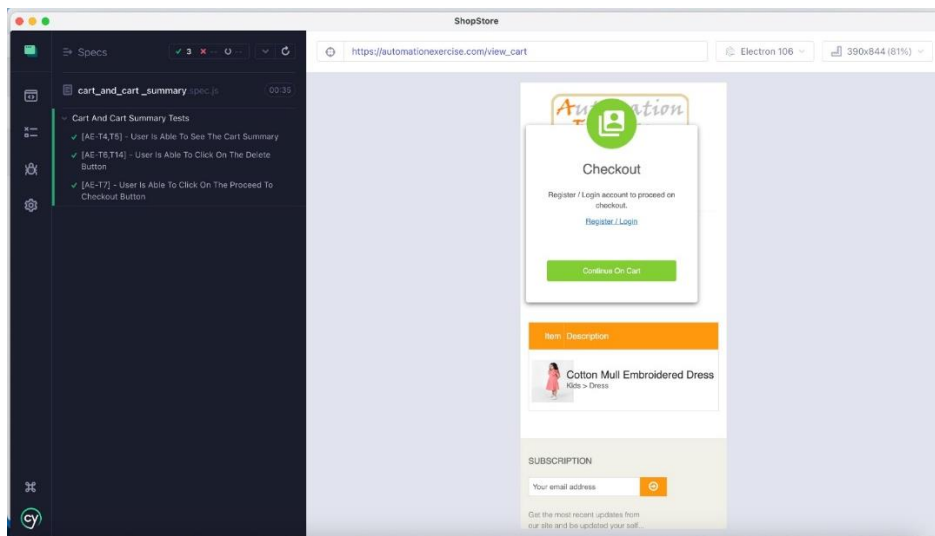
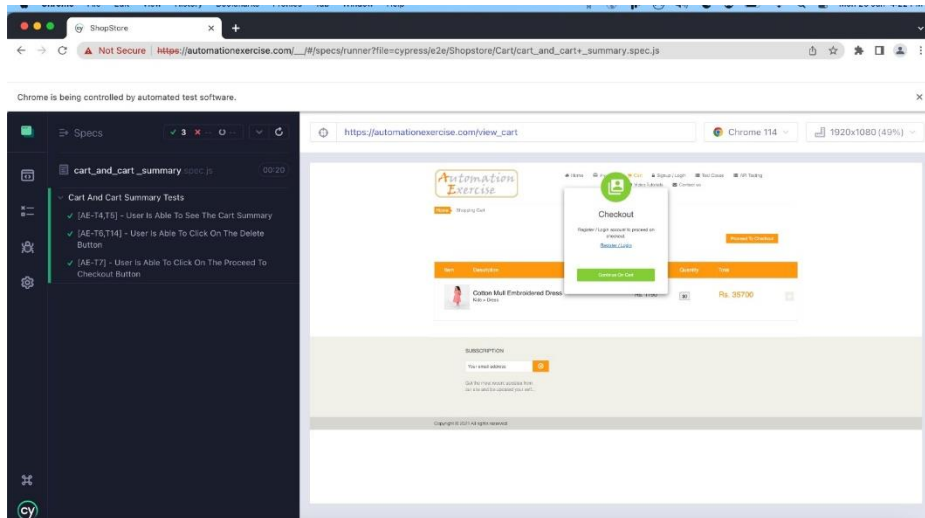
	<b>TEST STRATEGY</b>	JUNE 2023
		Automation Exercise

- Product Details (Desktop and Mobile)



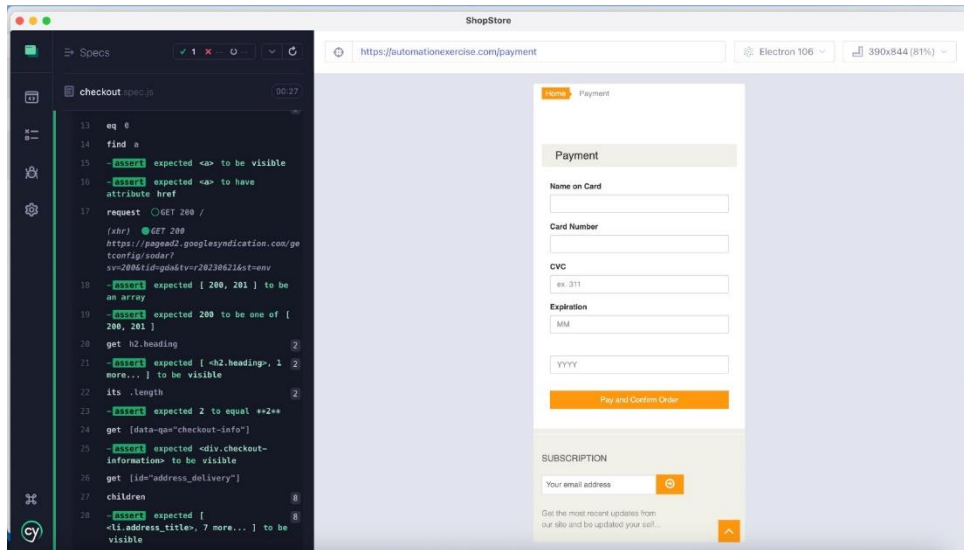
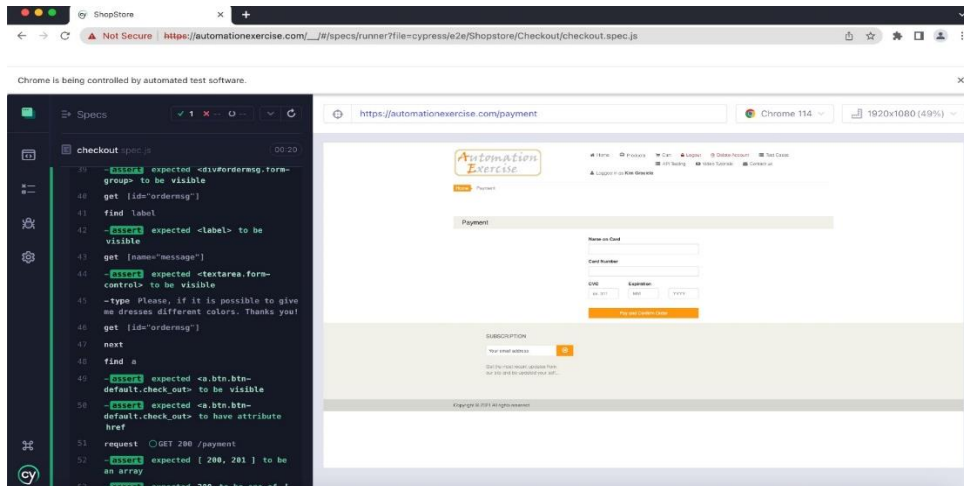
	<b>TEST STRATEGY</b>	JUNE 2023
		Automation Exercise

- Cart and Cart Summary (Desktop and Mobile)



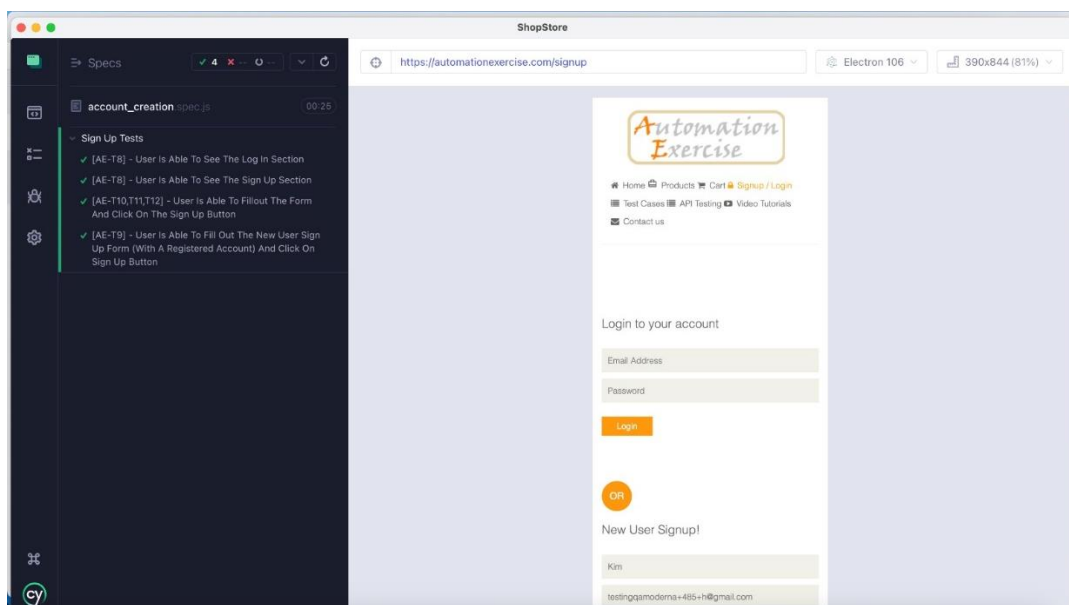
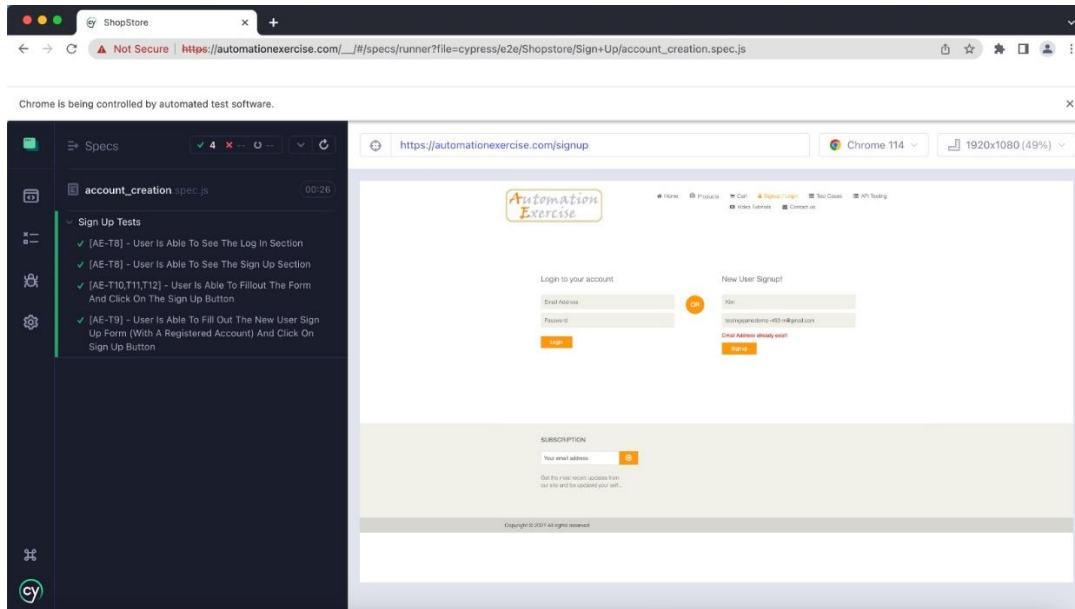
	<h1>TEST STRATEGY</h1>	<p>JUNE 2023</p>
		<p>Automation Exercise</p>

- Check Out (Desktop and Mobile)



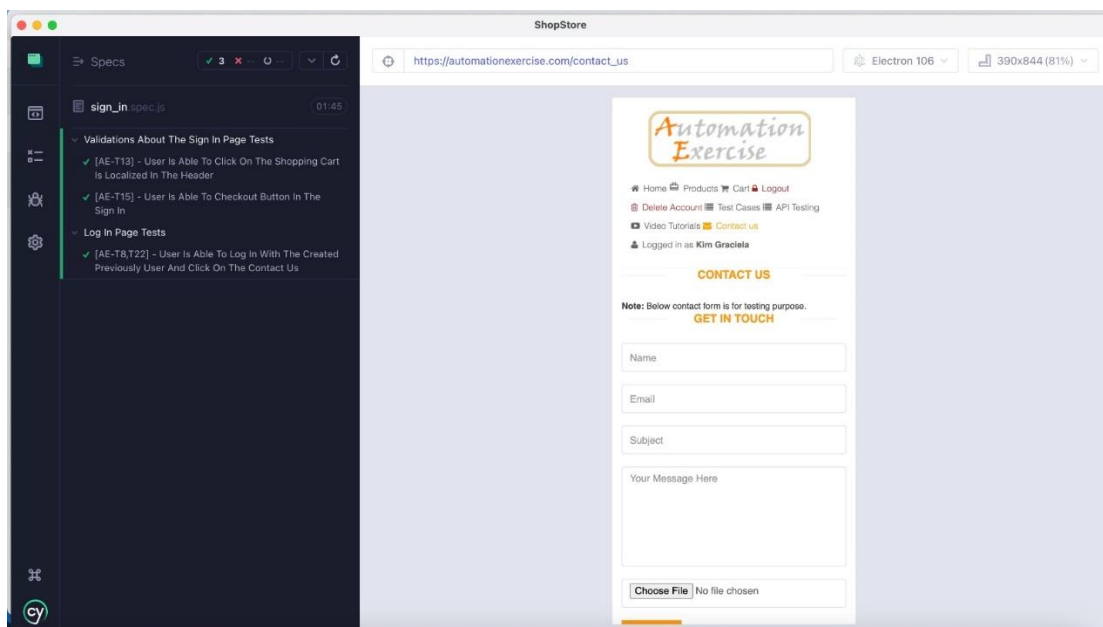
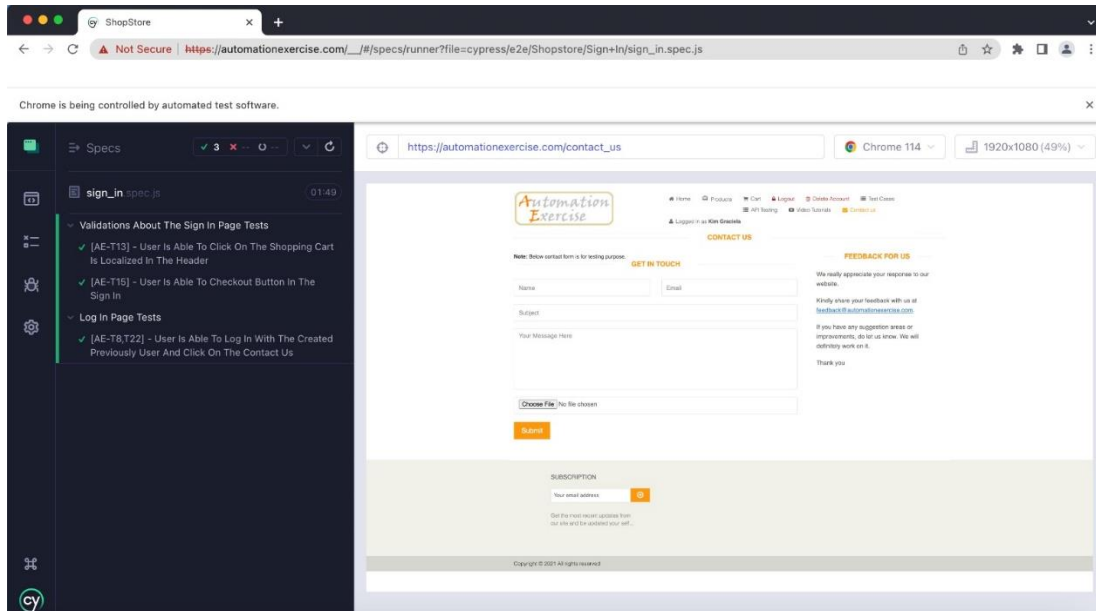
	<b>TEST STRATEGY</b>	JUNE 2023
		Automation Exercise

- Account Creation / Sign Up (Desktop and Mobile)



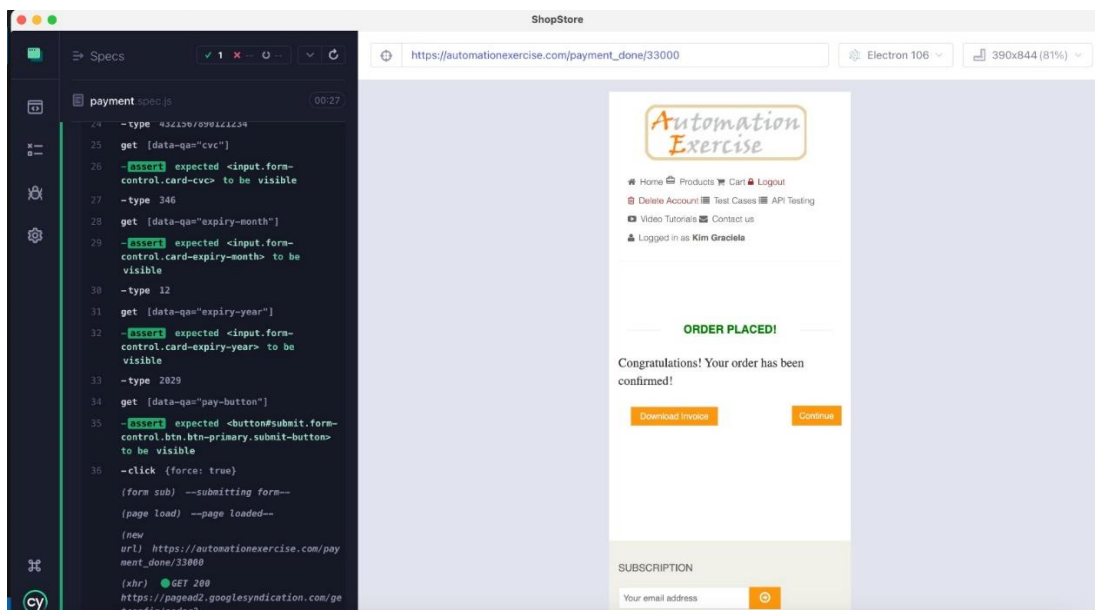
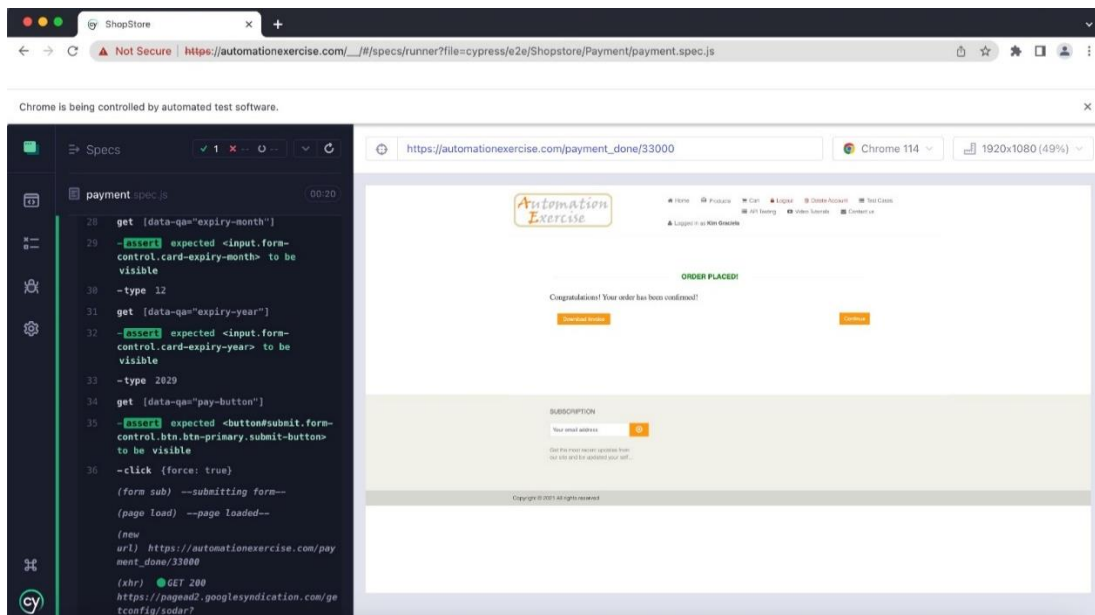
	<b>TEST STRATEGY</b>	JUNE 2023
		Automation Exercise

- Sign In (Desktop and Mobile)



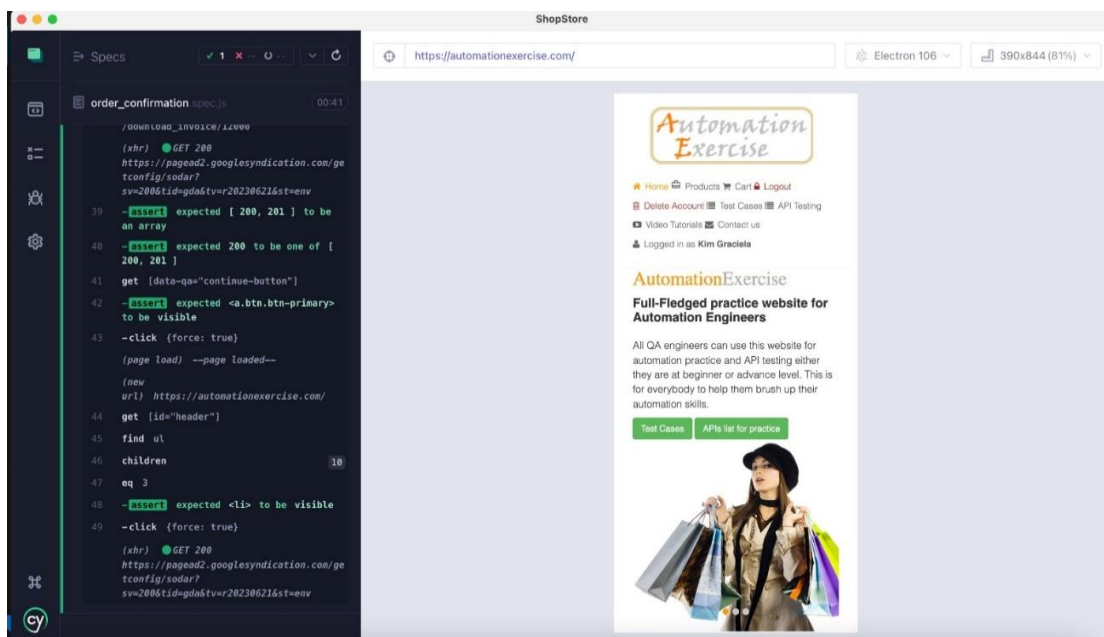
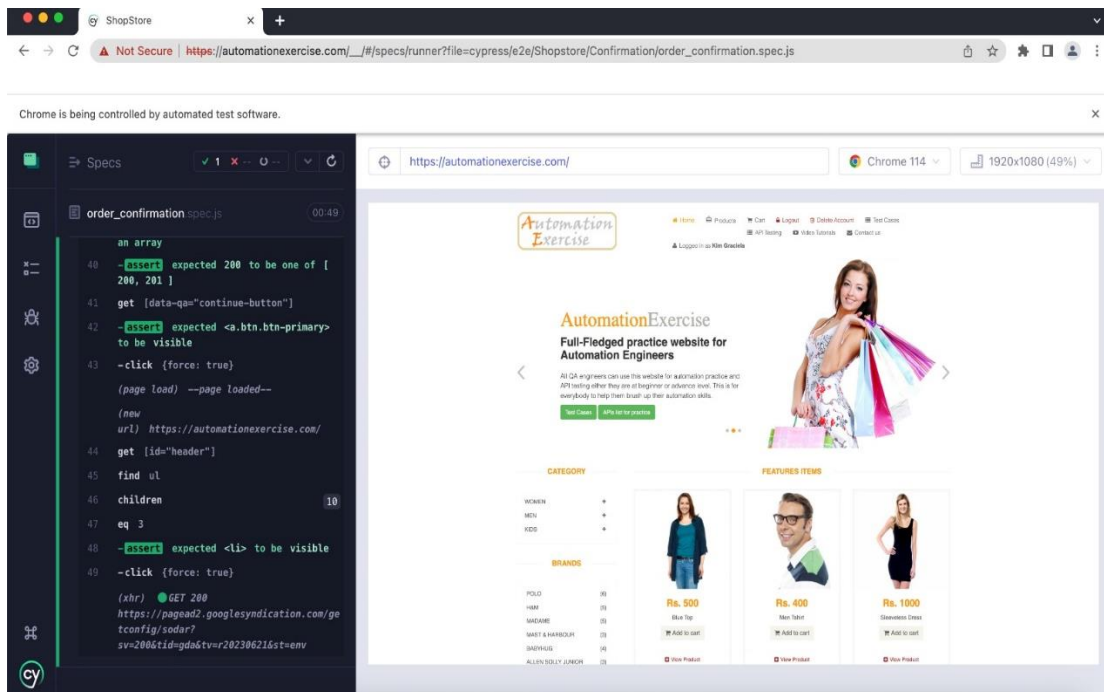
	<h1>TEST STRATEGY</h1>	<p>JUNE 2023</p>
		<p>Automation Exercise</p>

- Payment (Desktop and Mobile)



	<h1>TEST STRATEGY</h1>	<p>JUNE 2023</p>
		<p>Automation Exercise</p>

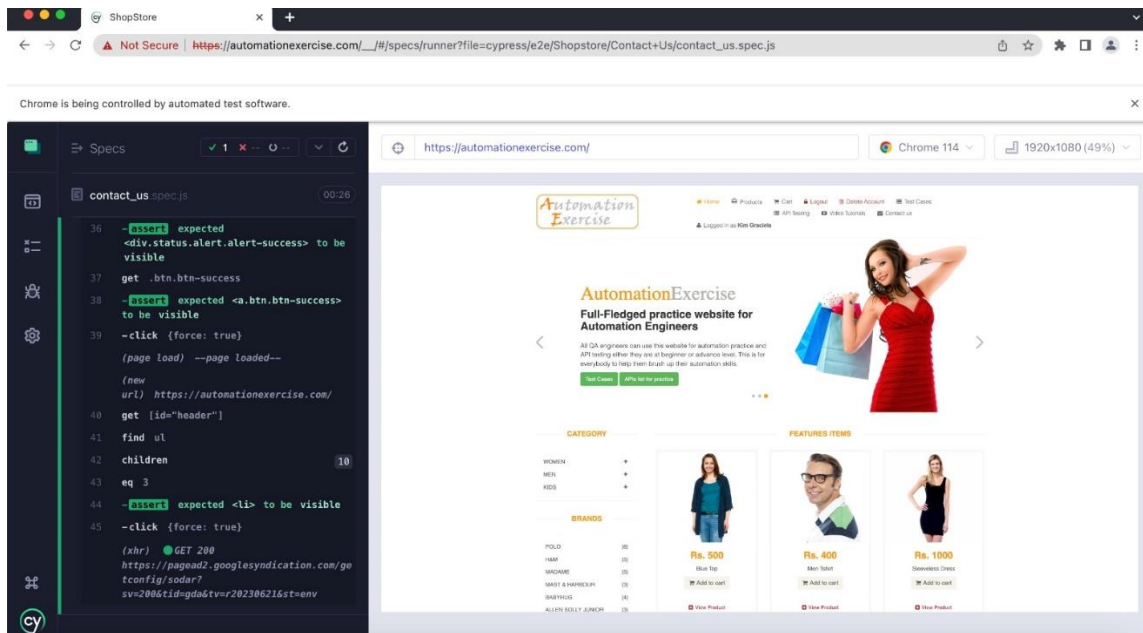
- Order Confirmation (Desktop and Mobile)





	<h1>TEST STRATEGY</h1>	<h2>JUNE 2023</h2>
		<h2>Automation Exercise</h2>

- Contact Us (Desktop and Mobile)



Chrome is being controlled by automated test software.

Specs: **contact\_us.spec.js** 00:26

```

36 -assert expected
   <div.status.alert.alert-success> to be
   visible
37 get .btn.btn-success
38 -assert expected <a.btn.btn-success>
   to be visible
39 -click {force: true}
   (page load) --page loaded--
   (new url) https://automationexercise.com/
40 get [id="header"]
41 find ul
42 children 10
43 eq 3
44 -assert expected <li> to be visible
45 -click {force: true}
   (xhr) GET 200
   https://pagead2.googlesyndication.com/pagead/js/adsbygoogle.js
   sv=2006&id=gda&tv=20230621&st=env

```

AutomationExercise  
Full-Fledged practice website for Automation Engineers

Test Cases | API's for practice




CATEGORY

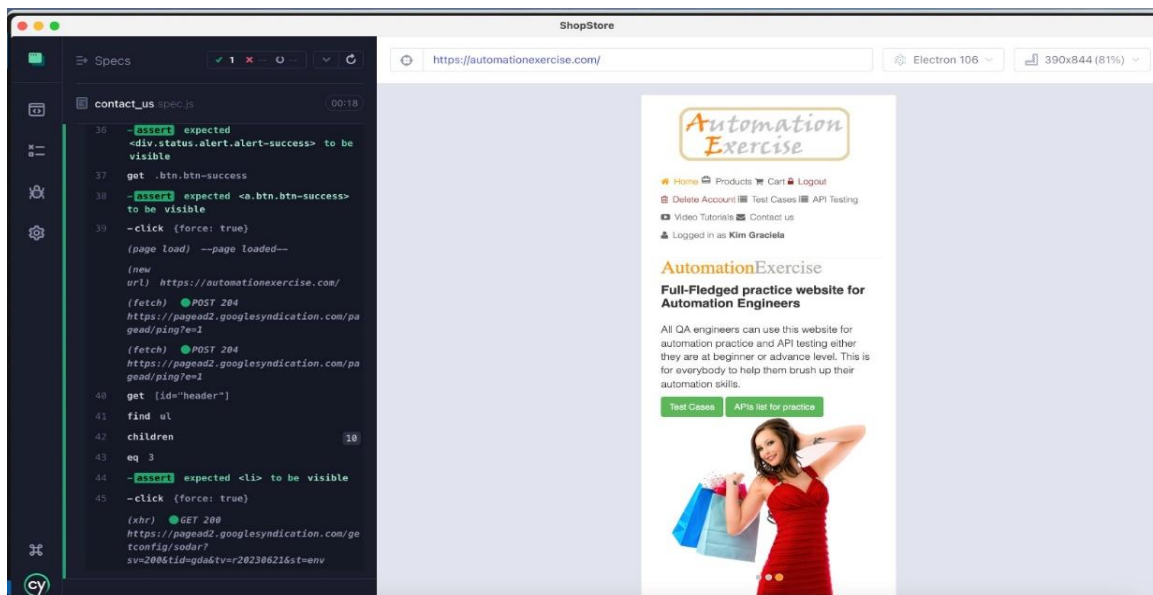
WOMEN	+
MEN	+
KIDS	+

BRANDS

POLO	RS
H&M	RS
WINDCHEASE	RS
WEEK & HAWKLEY	RS
SWITCHES	RS
ALPINE KIDLY JUNCTION	RS

FEATURES ITEMS

 <b>Rs. 500</b> Blue Top Add to cart	 <b>Rs. 400</b> Men T-shirt Add to cart	 <b>Rs. 1000</b> Dress Add to cart
---	---	---



ShopStore

Specs: **contact\_us.spec.js** 00:18

```

36 -assert expected
   <div.status.alert.alert-success> to be
   visible
37 get .btn.btn-success
38 -assert expected <a.btn.btn-success>
   to be visible
39 -click {force: true}
   (page load) --page loaded--
   (new url) https://automationexercise.com/
   (fetch) POST 204
   https://pagead2.googlesyndication.com/pagead/ping?e=1
   (fetch) POST 204
   https://pagead2.googlesyndication.com/pagead/ping?e=1
40 get [id="header"]
41 find ul
42 children 10
43 eq 3
44 -assert expected <li> to be visible
45 -click {force: true}
   (xhr) GET 200
   https://pagead2.googlesyndication.com/pagead/js/adsbygoogle.js
   sv=2006&id=gda&tv=20230621&st=env

```

AutomationExercise  
Full-Fledged practice website for Automation Engineers

Test Cases | API's for practice

AutomationExercise  
Full-Fledged practice website for Automation Engineers

Test Cases | API's for practice