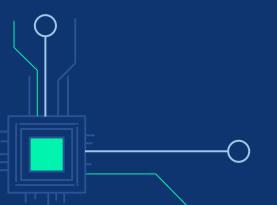


CS-522 CS522 - Software QA and Test Automation Instructor - Mr. Mori, Charles



**NATNAEL HAILE** 

20007

# **TABLE OF CONTENTS**



# 01. INTRODUCTION

GOAL

Automate End-to-End testing on Amazon using Selenium WebDriver.

#### **APPROACH**

Selenium for streamlined automation.

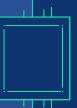
#### **FOCUS**

Specific products in the same category

#### **METHOD**

Meticulously designed use cases and test cases for comprehensive coverage.

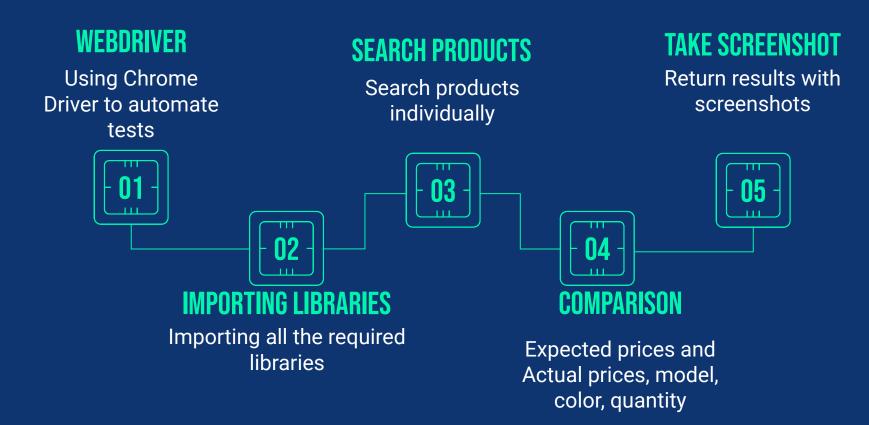








# 02. AUTOMATION DESIGN



### 03. USE CASE

- "End-to-End Test Scenario: Holiday Shopping on Amazon.com"
- Objective: Simulate the process of:
  - Searching for a target product (e.g., JBL bluetooth Speaker Flip6)
  - Comparing prices
  - Exploring promotions
  - Adding the item to the cart without completing the purchase

### **04. TEST CASE**



#### **TEST USE CASE**

HOLIDAY SHOPPING FOR JBL BLUETOOTH SPEAKER ON AMAZON

### **PRECONDITIONS**



A functioning browser that can run the Amazon site (chrome/firefox)

#### **SCENARIO**

EXPLORING AND PURCHASING JBL
BLUETOOTH SPEAKER FOR
UPCOMING HOLIDAY DEALS

# **TEST CASE: STEPS**

#### **ACTION**

#### **EXPECTED RESULT**

**OPEN AMAZON.COM** 

Launch a web browser or Amazon app.

Amazon homepage or app interface is displayed.

**SEARCH** 

Enter "JBL bluetooth Speaker Flip 6" in the search bar and press Enter.

Search results page shows a list of available speakers.

FIND MODEL, COLOR, AND COMPARE PRICE Browse through search results to find a suitable model and preferred color.

Compare prices, specifications, and customer reviews.

User selects a specific bluetooth speaker model and color and has an understanding of price range and features.

# **TEST CASE**

#### **POST CONDITIONS**

Script execution is stopped at the "Added to Cart" step. No actual purchase is made, and no payment information is used.

ACTION	EXPECTED RESULT
Click on the JBL bluetooth Speaker Flip 6 to view details.Check for holiday deals.	Details page opens; identify any promotions.
Adjust quantity on details page. Choose future promotion option if available. Click "Add to Cart".	Item added with specified quantity.
Stop at "Added to Cart" step.	No purchase; script execution halted.

# 05. OUTPUT

```
/ Users nati Library Caches JetBrains IdealC2023.3 at temp-testing-customsuite.xml
                                                                                                                                               ♣ ✓ No Project1 ▼ ▶ # C □ Q C >>

    TestAmazonSearchTestNG.java

                                                                             TestAmazonPriceSearchDataDriven.java
                                                                                                                                             d log4jExample.java × d TestAmazonSearchData ✓
  ■ Proiect ▼
                                                                                                               groject.java

▼ CS522 Selenium ~/IdeaProjects/CS522 Selenium

                                                          package week15:
                                                                                                                                                                          A4 A2 ×2 ^
   > idea

✓ ■ Features

           mySFBUCreateAccount.feature
          mvSFBULogin1.feature
          mySFBULogin2.feature
                                                         public class Project1 {
         mySFBULogin4.feature
                                                              public static final Logger logger = LogManager.getLogger(Project1.class);

✓ Image: Src

      > week9
      ∨ D week10
           TestAmazonSearch

✓ D week11

                                                              nublic Project1() {
     ✓ 0 14 12 ₹
                                   Ľ Q

→ Tests passed: 1 of 1 test – 42 sec 914 ms

      Default Suite
                                   42sec 914ms 18:00:15.412 [main] INFO week15.Project1 - Setting up the test...

✓ ✓ CS522 Selenium

                                               18:00:24.788 [main] INFO week15.Project1 - Test setup completed.

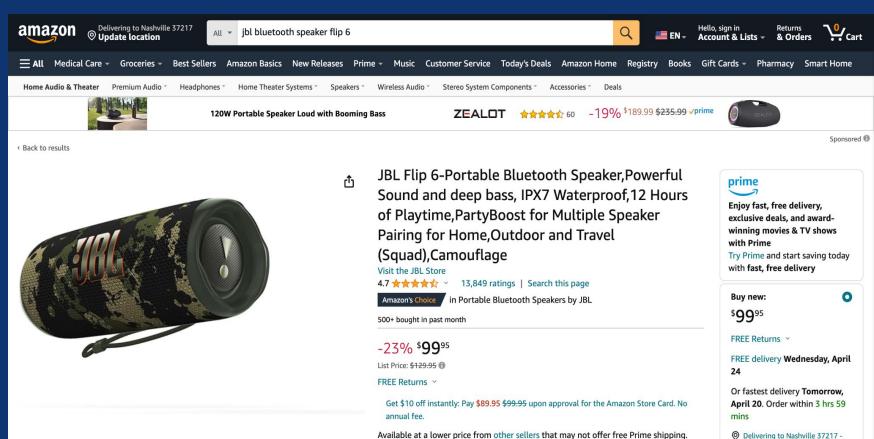
✓ ✓ Project1

                                                18:00:24.798 [main] INFO week15.Project1 - Executing searchItem...

✓ searchItemFromExcel 33 sec 255 ms

                                                18:00:29.535 [main] INFO week15.Project1 - Taking screenshot...
                                                18:00:30.337 [main] INFO week15.Project1 - Search completed for item: jbl bluetooth speaker
                                                18:00:30.337 [main] INFO week15.Project1 - Finished Executing searchItem...
                                                18:00:30.337 [main] INFO week15.Project1 - Taking screenshot...
                                                18:00:30.817 [main] INFO week15.Project1 - Finished Taking screenshot...
  ==
                                                18:00:30.817 [main] INFO week15.Project1 - Executing selectItem...
                                                18:00:39.992 [main] INFO week15.Project1 - Taking screenshot...
                                                18:00:40.673 [main] INFO week15.Project1 - 'Camouflage' color selected for the item.
                                                18:00:40.673 [main] INFO week15.Project1 - Taking screenshot...
                                                18:00:44.186 [main] INFO week15.Project1 - Finished Executing selectItem...
                                                18:00:44.187 [main] INFO week15.Project1 - Taking screenshot...
                                                18:00:44.576 [main] INFO week15.Project1 - Finished Taking screenshot...
                                                18:00:44.576 [main] INFO week15.Project1 - Executing adding to cart
                                                18:00:47.709 [main] INFO week15.Project1 - Taking screenshot...
                                                18:00:51.245 [main] INFO week15.Project1 - Taking screenshot...
                                                18:00:57.672 [main] INFO week15.Project1 - Finished Executing adding to cart
                                                18:00:57.672 [main] INFO week15.Project1 - Taking screenshot...
                                                18:00:58.052 [main] INFO week15.Project1 - Finished Taking screenshot...
                                                18:00:58.056 [main] INFO week15.Project1 - Tearing down the test...
                                                18:00:58.328 [main] INFO week15.Project1 - Test teardown completed.
   ▶ Version Control ▶ Run III TODO 19 Problems III Terminal 1 Services 		 Build
☐ Tests passed: 1 (2 minutes ago)
                                                                                                                                                                    171:64 LF UTF-8 4 spaces %
```

# OUTPUT



Update location

### OUTPUT

Subtotal

\$99,95 Your order qualifies for FREE Shipping.

Choose this option at checkout

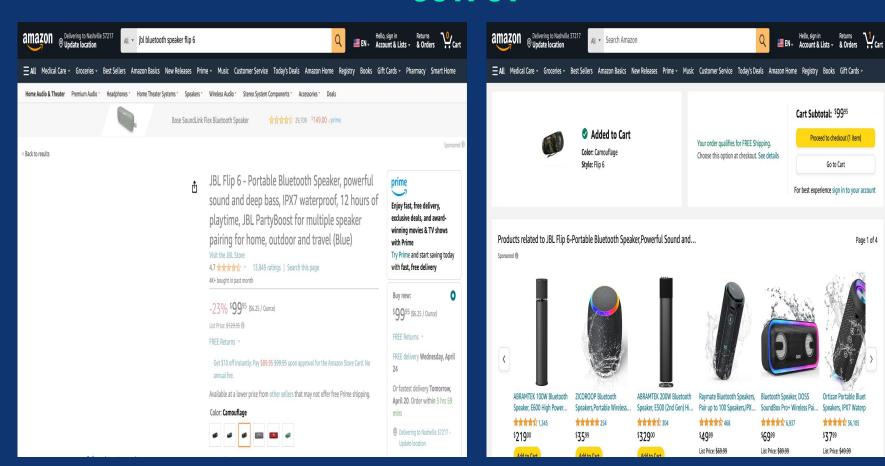
See details

Go to Cart

\$99.95

1 v Ū

Page 1 of 4



### **06. CONCLUSION**

The End-to-End Shopping Test, aimed at replicating the process of adding a JBL bluetooth Speaker Flip 6 to the cart on Amazon.com, has met its goals. Through a comprehensive automation script leveraging tailored web testing frameworks and libraries, the test executed seamlessly. It meticulously followed key steps, from accessing the Amazon homepage to searching for the desired speaker, adjusting quantities, and finally adding the item to the cart.



