



SIVAN CHAUSHU

# AUTOMATION & MANUAL QA PROJECT

- SELENIUM (JAVA)
- TESTRAIL
- SQL

# SELENIUM CHECKOUT TESTING

This project automates end-to-end testing of the Swag Labs website using Selenium WebDriver and Java. The script verifies login, item addition to the cart, the checkout process, and UI elements through positive and negative test cases. This ensures functionality, efficiency, and reliability throughout the user journey.



### C3: Swag Labs - Create a new order

Type	Priority	Estimate	References
Functional	High	5 minutes	None
Automation Type	None		

#### Preconditions

1) A computer with chrome browser

2) User details:

Valid Username: standard\_user

Valid Password: secret\_sauce

First name - Dani

Last name - Cohen

Zip/Postal Code - 777

3) Product details:

Proudct name - Sauce Labs Bike Light

Price - 9.99\$

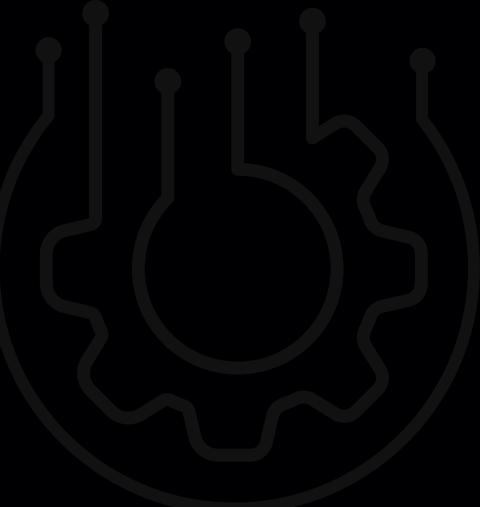
Tax - 0.80\$

Payment infotmation - SauceCard #31337

Shipping information - Free Pony Express Delivery!

4) Cart should be empty

# MANUAL



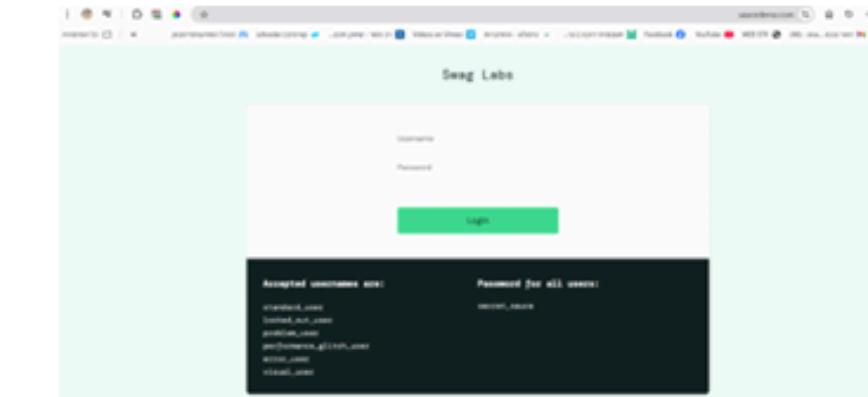
TESTRAIL

## Steps

1

Navigate to URL: <https://www.saucedemo.com/>

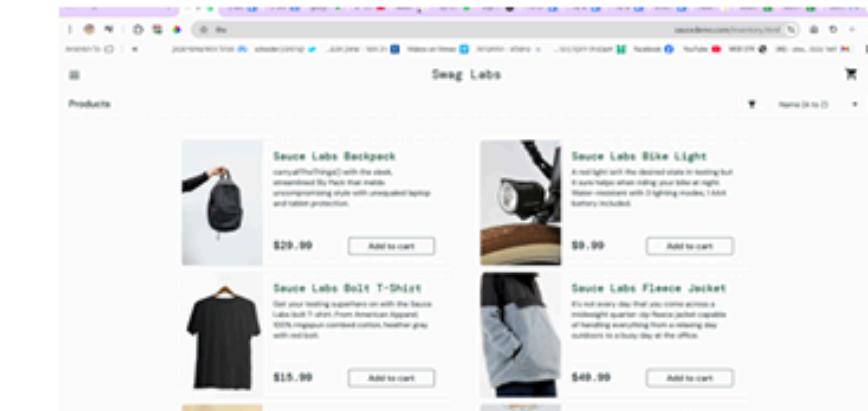
Login screen will appear successfully



2

Enter Username and Password, and click "Login" button

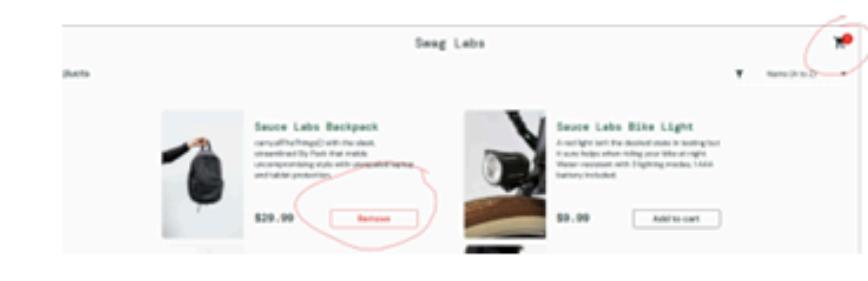
Product screen will appear successfully



3

Press "Add to cart" button under product name: "Sauce Labs Bike Light"

- 1) "Add to cart" button will change to "Remove"
- 2) Bubble with number 1 will appear inside the cart icon



# MANUAL

TESTRAIL

4 Press on the cart icon at the upper right side of the Page

1) "Your cart" screen will appear successfully  
2) product details will be displayed



5 Press on "Checkout" button

"Your information" screen will appear successfully



6 Enter First name, Last name and a Zip/Postal Code, and Press "Continue" button

"Checkout: Overview" screen will appear successfully

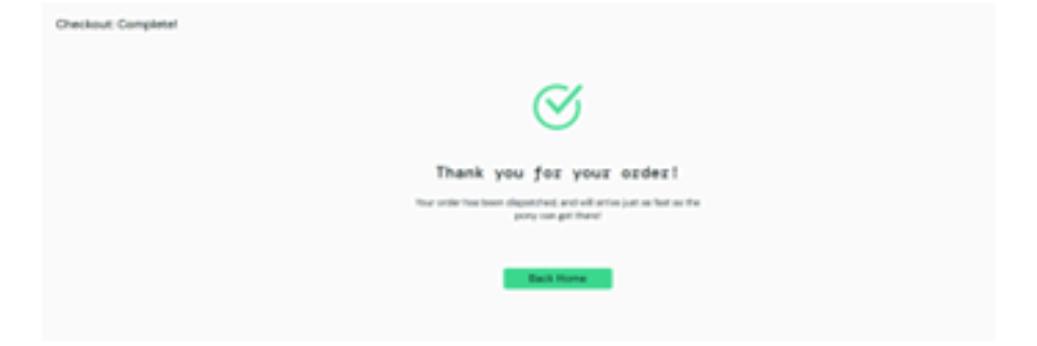


# MANUAL

# TESTRAIL

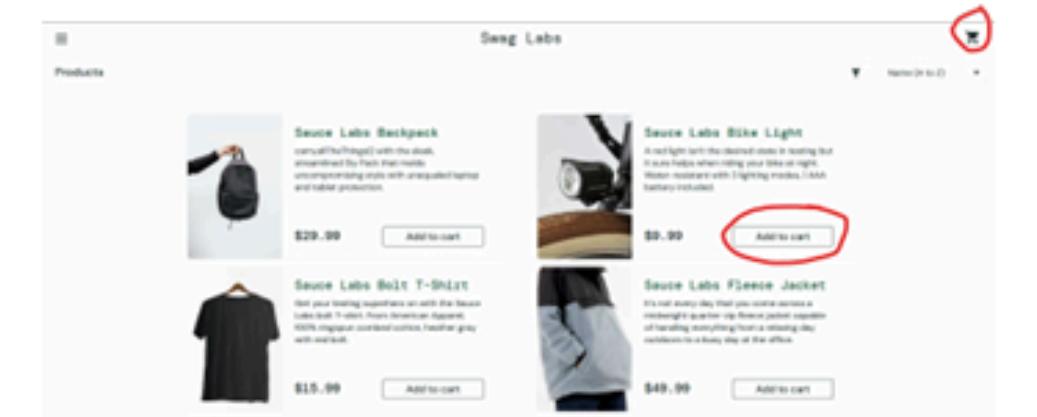
7 Press "Finish" button

"Checkout: Complete!" screen will appear successfully



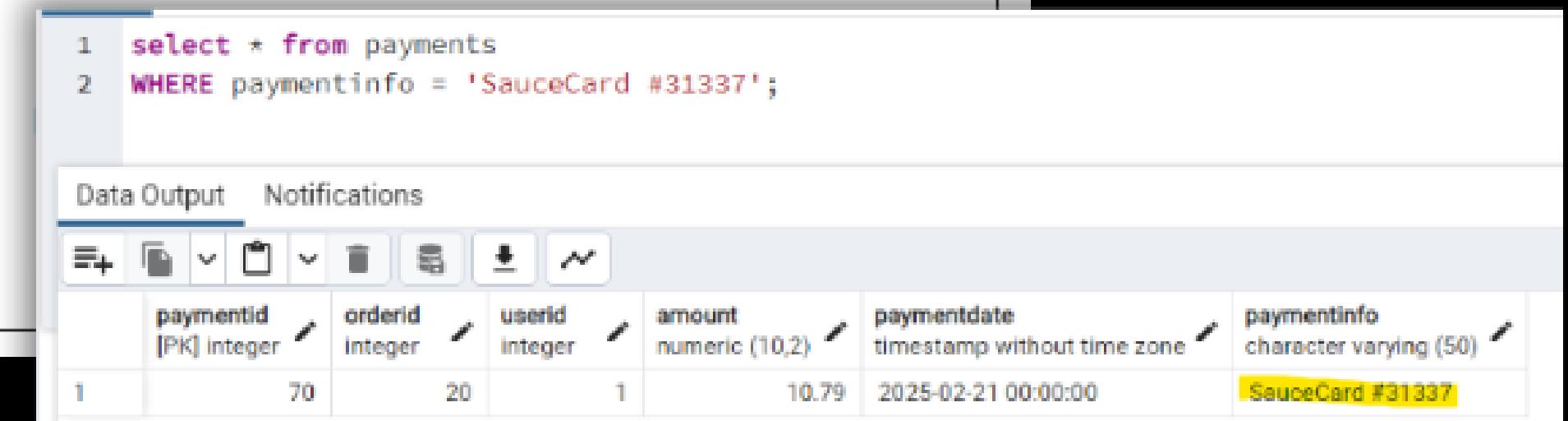
8 Press "Back Home" button

1) Product screen will appear successfully  
2) "Remove" button will change to  
3) "Add to cart" and cart will be empty



9 Run SQL and look for Payment information "SauceCard #31337" in Payments table.

Valid details for payment information (paymentinfo) SauceCard #31337



paymentid	orderid	userid	amount	paymentdate	paymentinfo
[PK] integer	integer	integer	numeric (10,2)	timestamp without time zone	character varying (50)
1	20	1	10.79	2025-02-21 00:00:00	SauceCard #31337

# AUTOMATION

```
*FinalExamSivanChaushu.java ×
1+import org.openqa.selenium.By;[]
4
5 public class FinalExamSivanChaushu {
6    public static void main(String[] args) {
7        WebDriver driver = test01_initializeDriver_and_goToUrl();
8        driver.get("https://www.saucedemo.com/");
9        isCssElementEqualsToExpected(driver, "01", "Swag Labs", ".login_logo");
10
11    test02_enteringUsernameAndPassword_and_ClickLoginCorrect_thenPass(driver, "standard_user", "secret_sauce");
12    test03_pressAddToCartCorrect_thenPass(driver, "#add-to-cart-sauce-labs-onesie", "Remove", "#remove-sauce-labs-onesie"); //Positive test
13    test03_pressAddToCartCorrect_thenPass(driver, "#add-to-cart-sauce-labs-backpack", "#non-existent-button", "#remove-sauce-labs-backpack"); //Negative test
14    test04_pressCartIcon_thenPass(driver, ".shopping_cart_link", "Your Cart", ".title"); //Positive
15    test04_pressCartIcon_thenPass(driver, ".shopping_cart_link", "non-existent-title", ".title"); //Negative
16    test05_pressCheckoutButtonCorrect_thenPass(driver, ".shopping_cart_link", "#checkout", "Checkout: Your Information", ".title"); //Positive
17    test05_pressCheckoutButtonCorrect_thenPass(driver, ".shopping_cart_link", "#checkout", "This text should not exist", ".title"); //Negative
18    test06_enterFirstNameLastNameZipCode_andPressContinueCorrect_thenPass(driver, "#continue", "", "Cohen", "777", "Checkout: Overview", ".title"); // Missing first name
19    test06_enterFirstNameLastNameZipCode_andPressContinueCorrect_thenPass(driver, "#continue", "Dani", "", "777", "Checkout: Overview", ".title"); // Missing last name
20    test06_enterFirstNameLastNameZipCode_andPressContinueCorrect_thenPass(driver, "#continue", "Dani", "Cohen", "", "Checkout: Overview", ".title"); // Missing zip code
21    test06_enterFirstNameLastNameZipCode_andPressContinueCorrect_thenPass(driver, "#non-existent-button", "Dani", "Cohen", "777", "Checkout: Overview", ".title"); // Missing continue button
22    test06_enterFirstNameLastNameZipCode_andPressContinueCorrect_thenPass(driver, "#continue", "Dani", "Cohen", "777", "Checkout: Overview", ".title"); // Positive test
23    test07_pressFinishButtonCorrect_thenPass(driver, "#non-existent-button", "Thank you for your order!", ".complete-header"); // Negative test
24    test07_pressFinishButtonCorrect_thenPass(driver, "#finish", "Thank you for your order!", ".complete-header"); // Positive test
25    test08_pressBackhomeButtonCorrect_thenPass(driver, "#back-to-products", "Products", ".title"); // Positive test
26    test08_pressBackhomeButtonCorrect_thenPass(driver, "#non-existent-button", "Products", ".title"); // Negative test
27    driver.quit();
28 }
29
30 //Methods
31    public static void isCssElementEqualsToExpected(WebDriver driver, String tc_number, String expectedResult, String cssSelector) {
32        try {
33            String actualResult = driver.findElement(By.cssSelector(cssSelector)).getText();
34            if (expectedResult.equals(actualResult)) {
35                System.out.println("TC " + tc_number + " - Pass");
36            }
37            else {
38                System.out.println("TC " + tc_number + " - Failed. Expected: " + expectedResult + " but found: " + actualResult);
39            } } catch (Exception e) {
40                System.out.println("TC " + tc_number + " - Failed. Element not found: " + cssSelector);
41            }
42    }
```

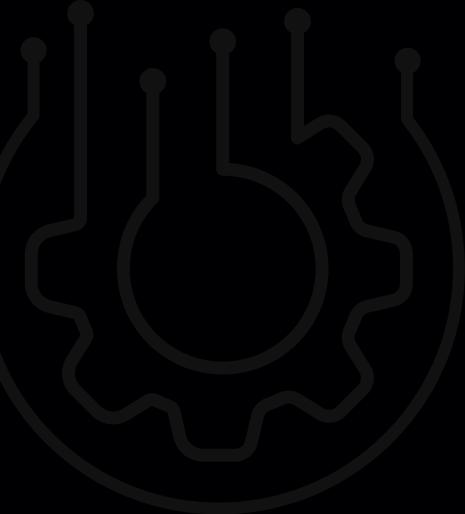
# AUTOMATION

```
75
76  public static void test05_pressCheckoutButtonCorrect_thenPass(WebDriver driver, String cartIconSelector, String checkoutSelector,
77      String expectedResult_05, String yourInformationTitle) {
78      driver.findElement(By.cssSelector(cartIconSelector)).click();
79      if (driver.findElements(By.cssSelector(checkoutSelector)).size() > 0) {
80          driver.findElement(By.cssSelector(checkoutSelector)).click();
81          isCssElementEqualsToExpected(driver, "05", expectedResult_05, yourInformationTitle);
82      }
83      else {
84          System.out.println("TC 05 - Failed. Checkout button not found.");
85      }
86  }
87
88  public static void test06_enterFirstNameLastNameZipCode_andPressContinueCorrect_thenPass(WebDriver driver, String continueSelector, String firstname,
89      String lastname, String zipcode, String expectedResult_06, String CheckoutOverviewTitle ) {
90      if (!firstname.isEmpty()) driver.findElement(By.cssSelector("#first-name")).sendKeys(firstname);
91      if (!lastname.isEmpty()) driver.findElement(By.cssSelector("#last-name")).sendKeys(lastname);
92      if (!zipcode.isEmpty()) driver.findElement(By.cssSelector("#postal-code")).sendKeys(zipcode);
93      if (firstname.isEmpty()) {
94          System.out.println("TC 06 - Failed. First name field is missing.");
95          return;
96      }
97      if (lastname.isEmpty()) {
98          System.out.println("TC 06 - Failed. Last name field is missing.");
99          return;
100     }
101     if (zipcode.isEmpty()) {
102         System.out.println("TC 06 - Failed. Zip code field is missing.");
103         return;
104     }
105     if (driver.findElements(By.cssSelector(continueSelector)).size() > 0) {
106         driver.findElement(By.cssSelector(continueSelector)).click();
107         isCssElementEqualsToExpected(driver, "06", expectedResult_06, CheckoutOverviewTitle);
108     } else {
109         System.out.println("TC 06 - Failed. Continue button not found.");
110         return;
111     }
112 }
```

# AUTOMATION

```
75
76    public static void test05_pressCheckoutButtonCorrect_thenPass(WebDriver driver, String cartIconSelector, String checkoutSelector,
77                  String expectedResult_05, String yourInformationTitle) {
78        driver.findElement(By.cssSelector(cartIconSelector)).click();
79        if (driver.findElements(By.cssSelector(checkoutSelector)).size() > 0) {
80            driver.findElement(By.cssSelector(checkoutSelector)).click();
81            isCssElementEqualsToExpected(driver, "05", expectedResult_05, yourInformationTitle);
82        }
83        else {
84            System.out.println("TC 05 - Failed. Checkout button not found.");
85        }
86    }
87
88    public static void test06_enterFirstNameLastNameZipCode_andPressContinueCorrect_thenPass(WebDriver driver, String continueSelector, String firstname,
89                                              String lastname, String zipcode, String expectedResult_06, String CheckoutOverviewTitle ) {
90        if (!firstname.isEmpty()) driver.findElement(By.cssSelector("#first-name")).sendKeys(firstname);
91        if (!lastname.isEmpty()) driver.findElement(By.cssSelector("#last-name")).sendKeys(lastname);
92        if (!zipcode.isEmpty()) driver.findElement(By.cssSelector("#postal-code")).sendKeys(zipcode);
93        if (firstname.isEmpty()) {
94            System.out.println("TC 06 - Failed. First name field is missing.");
95            return;
96        }
97        if (lastname.isEmpty()) {
98            System.out.println("TC 06 - Failed. Last name field is missing.");
99            return;
100    }
101    if (zipcode.isEmpty()) {
102        System.out.println("TC 06 - Failed. Zip code field is missing.");
103        return;
104    }
105    if (driver.findElements(By.cssSelector(continueSelector)).size() > 0) {
106        driver.findElement(By.cssSelector(continueSelector)).click();
107        isCssElementEqualsToExpected(driver, "06", expectedResult_06, CheckoutOverviewTitle);
108    } else {
109        System.out.println("TC 06 - Failed. Continue button not found.");
110        return;
111    }
112}
```

# AUTOMATION



```
112
113
114  public static void test07_pressFinishButtonCorrect_thenPass(WebDriver driver, String finishSelector, String expectedResult_07, String completeHeader) {
115      if (driver.findElements(By.cssSelector(finishSelector)).size() > 0) {
116          driver.findElement(By.cssSelector(finishSelector)).click();
117          isCssElementEqualToExpected(driver, "07", expectedResult_07, completeHeader);
118      }
119      else {
120          System.out.println("TC 07 - Failed. Finish button not found.");
121      }
122  }
123
124  public static void test08_pressBackhomeButtonCorrect_thenPass(WebDriver driver, String backhomeSelector, String expectedResult_08, String backhomeButton) {
125      if (driver.findElements(By.cssSelector(backhomeSelector)).size() > 0) {
126          driver.findElement(By.cssSelector(backhomeSelector)).click();
127          isCssElementEqualToExpected(driver, "08", expectedResult_08, backhomeButton);
128      }
129      else {
130          System.out.println("TC 08 - Failed. Back Home button not found.");
131      }
132  }
133 }
134 }
```

# THANK YOU

