



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.



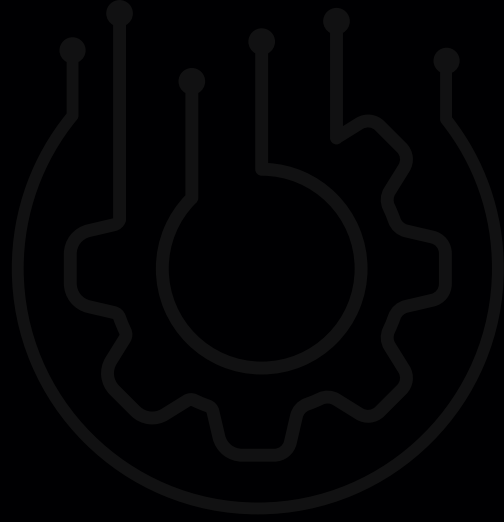
C3: Swag Labs - Create a new order

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

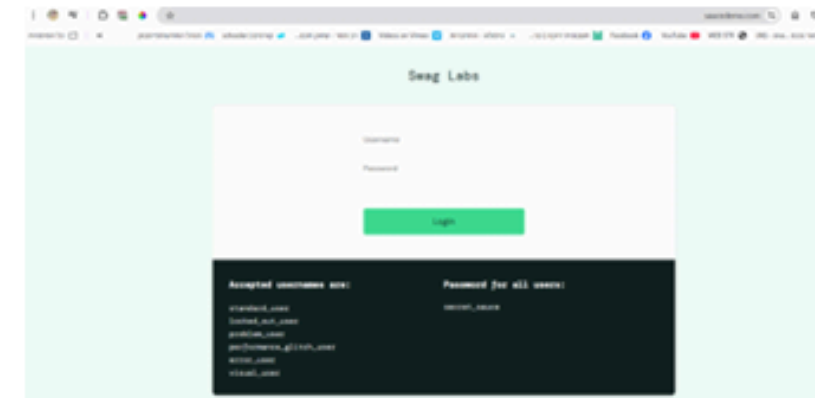
First name - Dani
Last name - Cohen
Zip/Postal Code - 777
- 3) Product details:
Proudct name - Sauce Labs Bike Light
Price - 9.99\$
Tax - 0.80\$
Payment infotmation - SauceCard #31337
Shipping information - Free Pony Express Delivery!
- 4) Cart should be empty



Steps

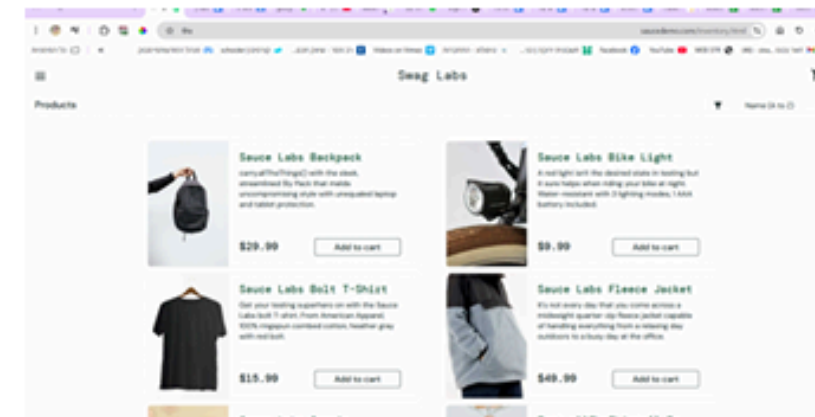
- 1 Navigate to URL: <https://www.saucedemo.com/>

Login screen will appear successfully



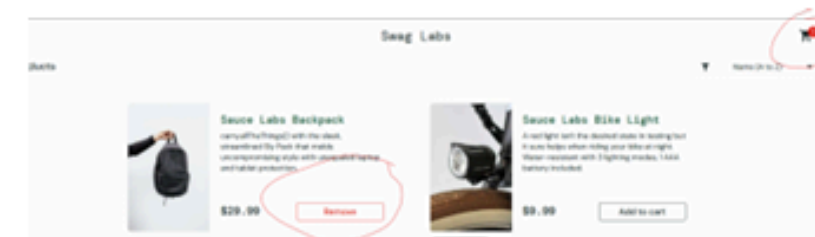
- 2 Enter Username and Password, and click "Login" button

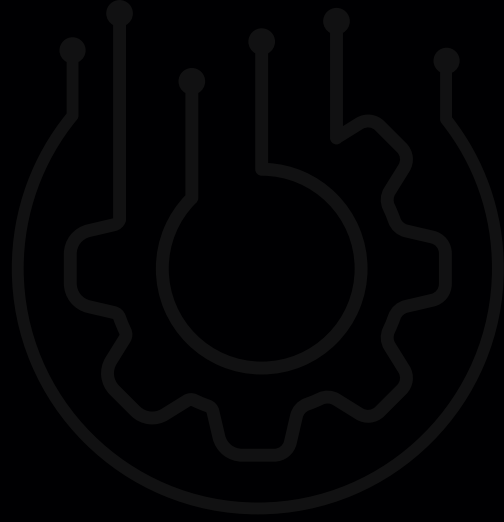
Product screen will appear successfully



- 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





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

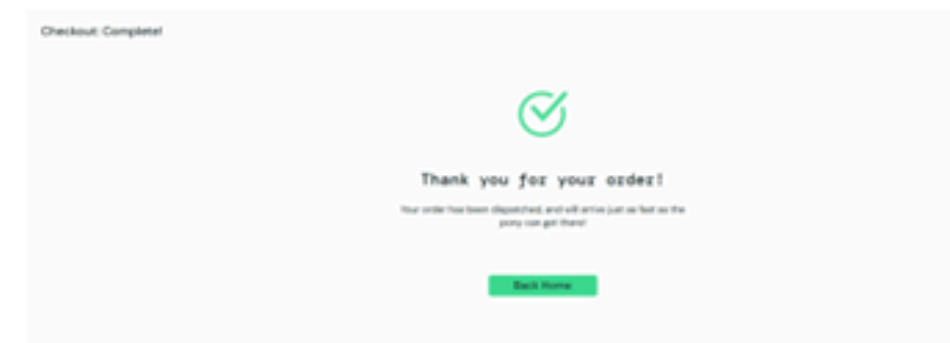
Enter First name, Last name and a Zip/Postal Code, and Press "Continue" button

"Checkout: Overview" screen will appear successfully



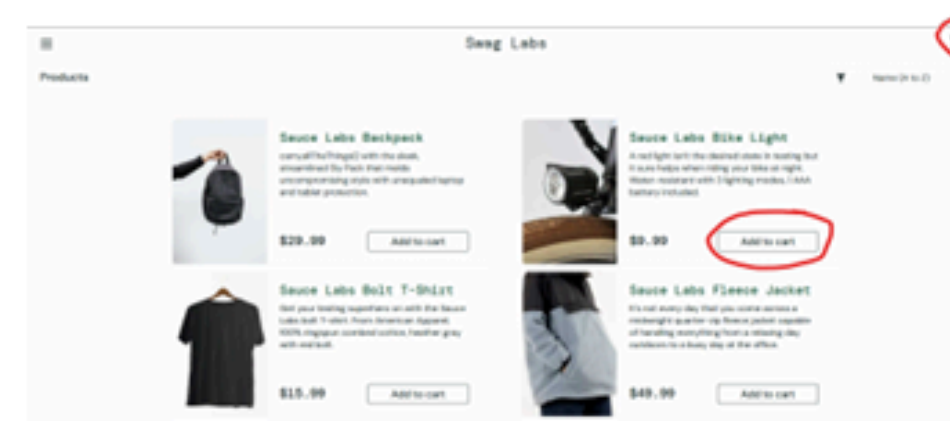
7 Press "Finish" button

"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

```
1 select * from payments
2 WHERE paymentinfo = 'SauceCard #31337';
```

Data Output Notifications

	paymentid [PK] integer	orderid integer	userid integer	amount numeric (10,2)	paymentdate timestamp without time zone	paymentinfo character varying (50)
1	70	20	1	10.79	2025-02-21 00:00:00	SauceCard #31337

```
*FinalExamSivanChaushu.java ×
1 import org.openqa.selenium.By;
2
3
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     }
```

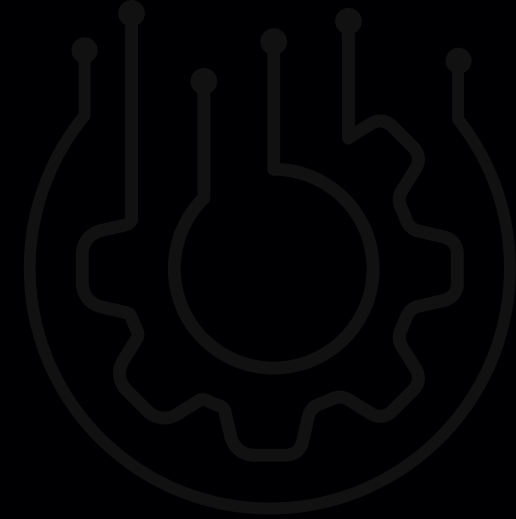
```
75
76 public static void test05_pressCheckoutButtonCorrect_thenPass(WebDriver driver, String cartIconSelector, String checkoutSelector,
77     String expectedResult_05, String yourInformationTitle) {
78     driver.findElement(By.cssSelector(cartIconSelector)).click();
79     if (driver.findElements(By.cssSelector(checkoutSelector)).size() > 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 }
```



```

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 }
113

```



```
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         isCssElementEqualsToExpected(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         isCssElementEqualsToExpected(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