Project Report

E-commerce Mobile App Testing (Sauce labs)

1. Project Overview

1.1 Name Of the Project

E-commerce Mobile App (Sauce Labs) Testing Project.

1.2 Objective

To automate testing for the E-commerce mobile app (Sauce Labs).

1.3 Technologies and Tools Used

- Mobile App: Sauce Labs App
- Test Automation Framework: Appium
- Test Execution Framework: TestNG
- Design Pattern: Page Object Model (POM)
- Version Control: Git
- Reporting: Extent Reports
- Documentation: Microsoft Word

❖ Valid Login Credentials:

- **♦** Username :- standard_user.
- **♦** Password :- secret_sauce.

2. Test Cases

- 2.1 Test Case 1: Login with Valid Username and Password
 - Objective: Verify that a user can successfully login with valid credentials.
 - ❖ Steps: -
 - Open the Sauce Labs mobile app.
 - Enter a valid Username and password.
 - Click on the login button.



 Overview: - This test case validates the login functionality with a valid Username and password.

Outcomes:-

The login is performed successfully.

2.2 Test Case 2: Login with Invalid Username and Password

❖ Objective: - Verify the behavior of login page when attempting to login with invalid credentials.

❖ Steps: -

- Open the Sauce Labs mobile app.
- Enter an Invalid Username and password.
- Click on the login button.

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❖ Overview: - This test case checks the application's response to invalid login attempts.

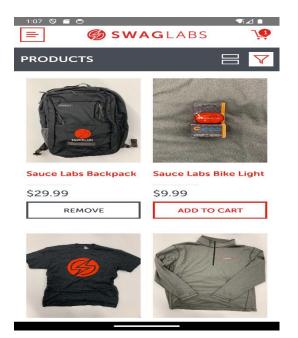
Outcomes:-

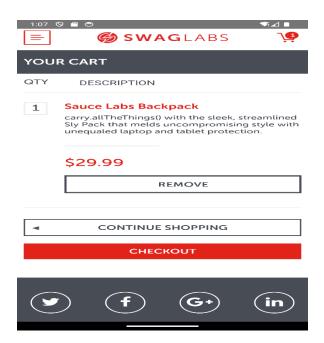
- Unsuccessful login.
- ➤ The application displays an appropriate error message: "Username and password do not match any user in this service."

- 2.3 Test Case 3: Add any Item to Cart and Validate the title and price of item.
 - ❖ Objective: Verify the ability to add an item to the shopping cart and validate that the title and price of the item.

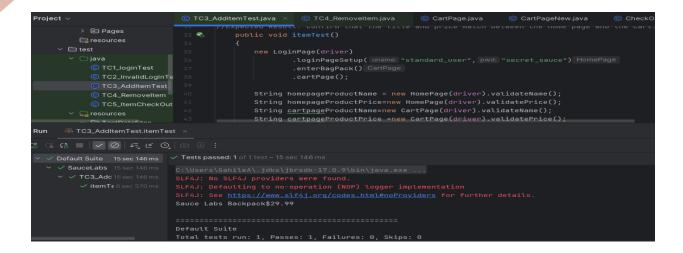
❖ Steps: -

- Open the Sauce Labs mobile app.
- Enter a valid Username and password.
- Click on the login button.
- Browse through the items.
- Add any item to the cart.
- Navigate to the home page.





Overview: - This test case ensures that users can add items to the cart and verifies the displayed details.



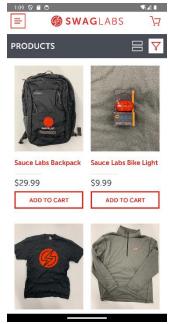
Outcomes:-

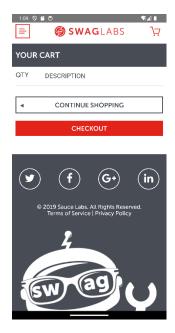
- > An item is added to the cart.
- > The title and price of the item on the home page match the title and price of the item from the cart.
- 2.4 Test Case 4: Validate removing items from the cart and and validate that the cart is empty.
 - **❖** Objective: Verify the ability to remove items from the shopping cart and validate the cart is empty.

❖ Steps: -

- Open the Sauce Labs mobile app.
- Enter a valid Username and password.
- Click on the login button.
- Browse through the items.
- Add an item to the cart.
- Navigate to the cart.

- Remove the item from the cart.
- Validate that the cart is empty.





❖ Overview: - This test case ensures that users can successfully remove items from the cart and displays the cart is empty.

❖ Outcomes:-

- > An item is removed from the cart.
- > The cart is empty after item removal.

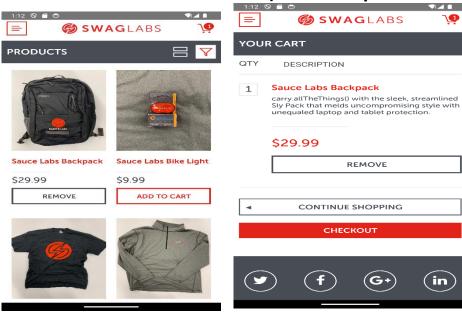
2.5 Test Case 5: Online Ordering and complete the flow from adding element to cart till the checkout.

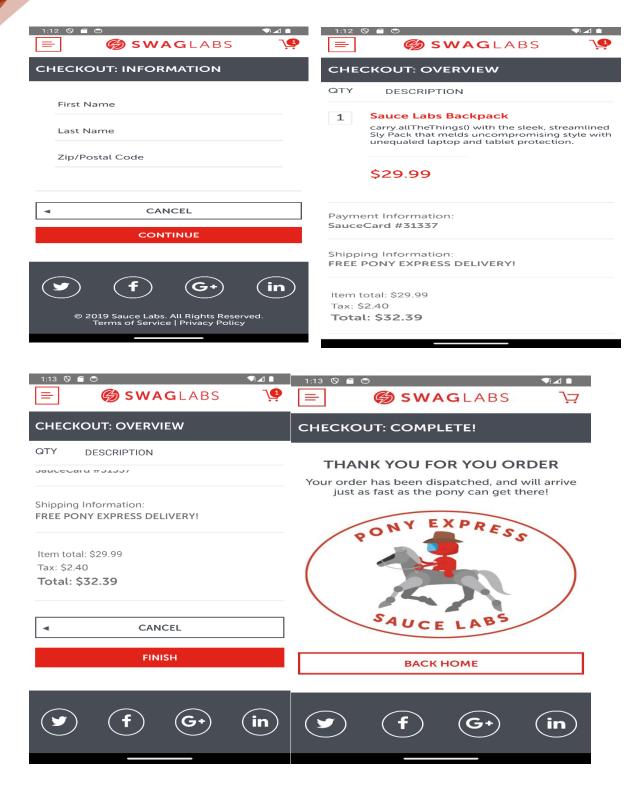
Also Validate the price and success purchase.

Objective: - Verify the complete online ordering flow and checkout process.

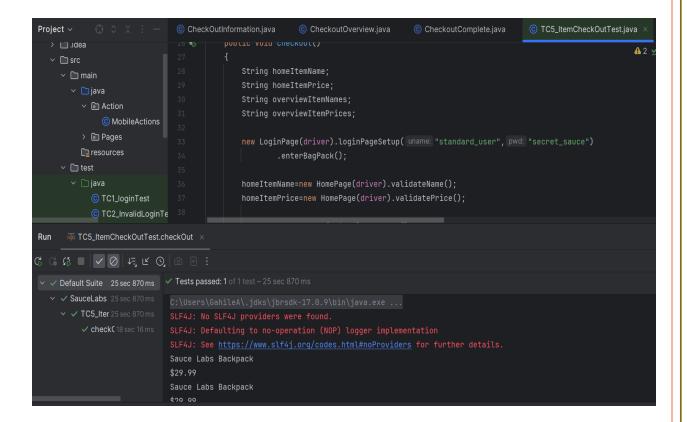
❖ Steps: -

- Open the Sauce Labs mobile app.
- Enter a valid Username and password.
- Click on the login button.
- Browse through the items.
- Add an item to the cart.
- Navigate to the cart.
- Verify the item and its prices.
- Proceed to checkout.
- Complete the checkout flow, providing necessary information like First Name, Last Name and Zip/Postal Code.
- Validate the final price and success message ("THANK YOU FOR YOU ORDER") after the purchase.





Overview: - This test case covers the end-to-end flow from adding items to the cart to successful checkout.



Outcomes:-

- > An item is ordered successfully.
- > The final price is same as cart page and success message after the purchase is displayed.

3. Technical Implementation

3.1 Modular Design (Page Object Model)

- Implemented Page Object Model (POM) for modular design.
- Separated page classes for login, home, cart, and checkout.

3.2 GitHub Repository

GitHub Repository Link – https://github.com/AdityaBuddyOfficial/SauceLabs_Project_Appium_Automation Testing.git

4. Conclusion:-

In conclusion, the E-commerce project conducted on the Sauce Labs platform involved a comprehensive set of test cases aimed at validating the functionality and user experience of the mobile application. The test suite covered critical scenarios, ranging from successful and unsuccessful login attempts to the complete flow of online ordering and checkout processes. By utilizing the Appium framework and Extent Reports for reporting, a systematic and detailed approach was maintained throughout the testing lifecycle.