**Test Plan for Swag Labs Application**

**Objective:**

To validate the functionality and user experience of the Swag Labs e-commerce application through automated testing using Selenium in Java.

**Test Scenarios:**

1. **Login Functionality**

* **Description:** Validatesuccessful login with valid credentials.
* **Actions:**
* Navigate to the login page.
* Entered valid username and password.
* Clicked the “Login” button.
* **Outcome:** User successfully redirected to the product page.

1. **Product Page Verification:**

* **Description:** Ensure all products are displayed correctly on the product page.
* **Actions:**
* Navigate to the product page after login.
* Verified presence of product names and prices.
* **Outcome:** All products displayed correctly.

1. **Shopping cart Functionality:**

* **Description:** Test the shopping cart’s ability to add and display products.
* **Actions:**
* Added products to the shopping cart.
* Navigate to the shopping cart.
* Verified the correct items and quantities were displayed.
* **Outcome:** Shopping cart displayed all added items accurately.

1. **Checkout Process Validation:**

* **Description:** Validate the checkout process form the cart to order completion.
* Go to shopping cart.
* Click on the checkout button.
* Enter shipping and payment details.
* Confirm the order.
* **Expected Result:** User receives anorder confirmation.

1. **Logout Functionality:**

* **Description:** Ensure the user can log out successfully.
* **Actions:**
* Clicked the “Logout” button from the product page.
* **Outcome:** User redirected to the login page.

**Tools used:**

* Selenium WebDriver (Java)
* TestNG (for test management)
* Maven (for project management)

**Overall Outcome:**

* Increased test coverage by automating core functionalities.
* Enhanced overall application usability and performance through thorough testing.