**Group 2 DEPI**

**Time Estimate**

6 hours

1 hour

|  |  |
| --- | --- |
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**📄 Automation Testing Report for SauceDemo Website**

**1. Project Overview**

We created an automated test suite using **Java**, **Selenium WebDriver**, and **TestNG** for the website:

🔗 [https://www.saucedemo.com](https://www.saucedemo.com/)

The goal was to cover **positive**, **negative**, and **critical** test scenarios for:

* **Login functionality**
* **Cart functionality**
* **Main Menu operations**
* **Main page flow**
* **Checkout process**

**2. Environment**

| **Tool/Technology** | **Version** |
| --- | --- |
| Java | JDK 24 |
| Selenium WebDriver | 4.x |
| TestNG | 7.x |
| ChromeDriver | Latest Stable |
| Browser | Chrome (latest) |
| OS | Windows |

**3. Scope of Testing**

The testing included:

* **Functional Testing** (valid logins, cart operations, checkout flows)
* **Negative Testing** (invalid inputs, error handling)
* **UI (Functional) Validation** (to login Successfully)
* **Navigation Testing** (main menu features: All Items, Reset App,
* Log out) – (about is excluded)

**4. Test Cases Automation Summary**

| **Area** | **Number of Test Cases** | **Description** |
| --- | --- | --- |
| Login Valid Users | 5 | Standard, Problem, Performance, Error, Visual, Locked Out . |
| Login Invalid Tests | 8 | Empty fields, Spaces only, Special characters, Wrong passwords . |
| Cart Tests  Main Page | 15  22 | Add all products , view empty cart, continue shopping .  Add all products , remove all products , integrate with the main menu . |
| Main Menu Tests | 15 | Check All Items, Reset App State, Logout (after adding/removing items) . |
| Checkout Tests | 14 | Valid/invalid checkout forms, empty fields, direct cart navigation . |
| **Total** | 79 | Full website coverage |

|  |  |
| --- | --- |
| UI (Functionality) | (5) passed / (8) Failed |
| Main Page | (8) passed / (14) Failed |
| Main Menu | (5) passed / (10) Failed |
| Cart | (8) passed / (7) Failed |
| Check out | (10) passed / (4) Failed |
| Overall | Total Passed/Failed: (36) - (43) |

**🡪 3 test cases was failed and this was not expected in the happy scenario class so this was covered and edited in the manual test cases and was reported in the report . – 2 was failed in the cart with the same reason due to the problem – error users cant add all the products .**

**5. Detailed Features Tested**

**Login Module**

* ✅ Standard user successful login.
* ✅ Different users' login verification (problem user, performance glitch user, etc.).
* ❌ Validation on invalid inputs (empty username, special characters, etc.)

**Cart Operations**

* Adding multiple products to cart.
* Removing all products.
* Viewing cart when empty.
* Continue Shopping functionality.

**Main Menu Validation**

* Access "All Items" link.
* Reset Application State.
* Logout from the application

**Checkout Process**

* Checkout flow with valid inputs.
* Checkout with invalid and special character inputs.
* Attempt checkout without adding products.
* Cancel checkout at information page.

**6. Assertion Points**

* Successful reset of app state.
* Proper logout functionality.

**7. Execution Result Summary**

| **Status** | **Test Cases** | **Percentage** |
| --- | --- | --- |
| Passed |  |  |
| Failed |  |  |

✔️ All scenarios were successfully validated against expected results.

**8. Recommendations for (Developers)**

* Improve error messages for invalid login attempts.
* Add CAPTCHA or rate-limiting for login.
* Confirm user feedback for Reset App State (show success alert).
* Validate form field input at frontend for checkout page
* (not to accept special chars as it currently accepts special chars).

**9. Screenshots and Logs**

**(in the Bug Report)**

**📌 Conclusion**

This automation project provided **full coverage** for **saucedemo.com** major user flows: **Login**, **Cart**, **Main Menu**, and **Checkout**, with both **positive and negative scenarios**.