Swag Labs Automation Test Project Plan

# **INTRODUCTION**

This document outlines the automation testing plan for the Swag Labs, a web application for shopping.

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| OBJECTIVE | DESCRIPTION |
| Ensure Application Stability | Guarantee the Swag Labs application's stability and reliability. |
| Improve Testing Speed | Increase testing speed and reduce manual effort through automation. |
| Reduce Testing Costs | Lower overall testing costs by optimizing resources and minimizing human involvement. |
| Validate Cart to Checkout Process | Ensure items added to the cart proceed smoothly to the checkout stage without errors. |
| Verify Price Accuracy | Validate that displayed prices are correct, eliminating discrepancies from manual checks. |
| Validate Element Functionality | Confirm proper functionality of all user interface elements, preventing duplicates. |
| Check Link Functionality | Verify that all application links function correctly, ensuring seamless navigation. |
| Validate Login Sequence via DDT | Ensure the login sequence functions properly, utilizing Data-Driven Testing (DDT) techniques for reliability. |

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# Scope

The scope of automation testing includes:

* Functional testing of all modules.
* Regression testing of all modules.

# Automation tool

The automation tool selected for this project is selenium with programming language python

# Test environment

The test environment for automation testing is as follows:

* Browser: Google Chrome Version 117.0.5938.92
* Programming language: python
* Integrated Development Environment: Pycharm

# Test cases

The following test cases will be automated:

1. Login to the application (DDT)
2. Cost checks (total vs displayed)
3. Add and remove products from the cart
4. View product detail
5. Checkout process (positive and negative scenarios)
6. Link checks
7. Zip code test

# Test data

The following test data will be used for automation testing:

* Usernames and passwords
* User information (First name, Last name, Zip/Postal Code)

# Test execution

The automation testing process will follow the below steps:

1. Determine the test scenarios suitable for automation.

2. Create automation scripts corresponding to the selected test scenarios.

3. Run the automation scripts to perform the tests.

4. Evaluate the outcomes of the automated tests.

5. Document and monitor any identified defects, if they occur.

# Conclusion

In conclusion, the Swag Labs Automation Test Project has been meticulously designed to achieve specific objectives aimed at enhancing the overall efficiency and reliability of the Swag Labs web application. By ensuring the application's stability and reliability, improving testing speed, and reducing manual effort through automation, this project strives to optimize testing processes significantly.