

Assignment - Test Automation Engineer

INTRODUCTION

To evaluate the programming skills of engineers, Validaide requests the applicant to complete one or more assignments. They are intended to get an impression of the engineer's knowledge, programming skills, language skills, creativity, inventiveness, best practices' knowledge and so forth.

You are to perform the exercises in your own time, with full access to the Internet. Rather than asking multiple-choice questions about what you have memorized, the intent of these exercises is to test how well you can learn and use online knowledge, and how well you solve a small challenge in an environment resembling normal working conditions.

One final remark: of course – as we ask you to do this in your own time – we try to write these assignments such that they can be performed in 4 to 8 hours.

ASSIGNMENT: Swag Labs

Introduction:

[SauceDemo.com](https://sauce-demo.com) is a public demo website created by Sauce Labs to showcase and test web automation tools. It simulates a simple e-commerce platform called “Swag Labs,” allowing users to practice automated testing workflows without affecting a real production system.

Abstract:

Write a test suite using our internal stack: **PHP** with **Behat**, and **Selenium** for browser automation.

The minimum set of tests we would like to see includes:

Scenario 1: Login Functionality Tests

- Test failed login with invalid credentials
- Test failed login with locked out user
- Verify appropriate error messages for both scenarios

Scenario 2: Product Sorting Tests

- Sort products by name (Z to A)
- Verify product sorting order
- Validate sorting functionality

Scenario 3: Checkout Process Tests

- Add two specific items to cart (backpack and bike light)
- Calculate and verify total price
- Complete checkout process with user information
- Verify final price including tax
- Validate order completion

In addition to these requirements, feel free to add any other scenario you might consider useful. Some additional notes:

- Use Selenium (via Mink or directly) to drive browser interaction
- Make sure your setup can run either headless or visibly (your choice)
- Organize the project structure and step definitions clearly in PHP, use Gerkin syntax
- Add a brief README with setup and execution instructions
- Share with us a GitHub (or similar) repository URL with the code for our review

The goal is to evaluate your ability to apply BDD with our tools and to write clean, maintainable automation code in PHP. Let us know if you have any questions.

Good luck and (hopefully) have (a bit of) fun! 😊