**Requirement**

You will be required to create automation test framework using Java maven project. The framework should be designed with page object model (POM) and have a test report generated after test execution. It will be a bonus if cucumber is used as well. The assignment is split into 2 parts, UI and API automation testing. You may choose to do both the UI and API test in the same Java project or separately. The assignment will be graded based on the framework design and test coverage.

Below are additional requirements to facilitate smoother grading

* Project should be able to run with simple maven command 'mvn clean test'
* Project to be setup for Java 17
* Provide information on IDE used, instructions to run the project (if special setup is needed)
* For UI testing, chrome web driver is preferred.

**1. Web UI Testing (With Selenium)**

Website to test: [Swag Labs (saucedemo.com)](https://www.saucedemo.com/)

Below are the required test scenarios to automate

Login page

* Login Successful
* Login with locked out user
* Login with incorrect password

Products page

* Checkout Complete

**2. API Testing**

Go to [JSONPlaceholder - Free Fake REST API (typicode.com)](https://jsonplaceholder.typicode.com/)

Scroll down to the Resources and Routes section for available resources and http methods. You can also read [JSONPlaceholder - Guide (typicode.com)](https://jsonplaceholder.typicode.com/guide/) on how to utilise the API.

Below are the required test scenarios to automate

**Url:** [https://jsonplaceholder.typicode.com/](https://jsonplaceholder.typicode.com/comments)

**Resource:** comments

GET Method

* Get comments with id=3 and verify response body’s “name” and email” values

POST Method

* Post comments with the following json body and verify response body’s “id” value

{

"posId": 1,

"name": "Melissa",

"email": "abc@gmail.com"

}

**Resource:** users

GET Method

* Get users with id=6 and verify response body’s “street” and “city” values