**Test Automation Engineer Quiz**

The candidates are expected to complete this quiz with a working code and require infrastructure (deployed on cloud or local is fine. AWS provide free credits or other cloud like Linode is also fine)

***\*\* for the cloud deployed I am using the sourcelabs and due to I am using the free account. My sourcelabs account will be expired after 22 Aug 2020.***

Candidate are expected to share the code : Github:yuwern

Candidate are expected to review the code in a pairing format in the interview

**Test A:**

1. Pick any public weeksite like – i.e Facebook , Amazon

ANS: I will used the Amazon Web for this assessment

1. Create 3 positive test case for the website that will be tested with your test automation stack of your choice
   1. Explain why you selected this stack

**ANS** :

i**) all 3 positive test case is to make sure the Guest user and Existing User of Amazon able to search Item, add Item, Edit Item to the shopping Cart**

**ii) and also to ensure before proceed to make payment user need to login**

1. Create 3 negative test case for the website that will be tested with your test automation stack of your choice
   1. Explain why you choose this test cases

**ANS: 1) to ensure when search for the invalid item or special character in the search field, system able to handle and did not prompt any system error message**

**2) able to handle the invalid access credential**

1. If you have crated user story for these test , explain how you written the user story

**ANS : don’t have any user story for these test. These test just some basic functional test on the web e-commerce**

1. Show if you can automate the test using an automation too i.e Jenkins , cron job etc

**ANS : for this need to refer to the Jenkins\_step document. At there I will show step by step how Jenkins is setup.**

1. How If your test are maintained in a code repository and how you manage the code
   1. When is the automation executed ?
   2. How do you add changes to the test scripts

**ANS: I maintain the code repository using the Github by using the Pycharm IDE to integrate with.**

**a) The automation is executed when there is the change of the system requirement and use to run on the regression test as to make sure those existing function that not involved in the changes will still work the same as before.**

**b) code in the pycharm using Robot Framework**

**Test B:**

1. Pick any API – Twitter / Facebook / Youtube . Bonus will be given if you can use a API from Visa / Mastercard
2. Design an automation test script that will test the API
   1. Show how you manage the authentication of API
      1. Bonus given if the API key isn’t in plain text
   2. Show what tools you are using to test the API

**ANS:**

**Before this I am using the Postman API to test on the API and as of now I just learn to use the Robot framework to test on the API.**

**So, currently I will use postman API tools to test on those new or new requirement changes need of API and use the Robot framework to code for the test on the existing API**

* 1. 2 API type - GET and POST

**ANS:**

* **for the GET API I able to use the youtube API to run some test using the Robot framework under APITest.robot file**
* **As for the POST type API, I not able to obtain the access credential for the test due to I still lack of knowledge how to use the OAuth 1.0 or 2.0 method. As of now I only able to run the negative test on POST type API.**

**Test C:**

1. Bonus : How you can combine the complete CICD (mock certain steps is fine) that has a front end and backend test scenarios in the pipeline

**ANS: Currently I do not have any knowledge about this but I done some research that It can resolved by using Jenkins, Docker, Gitlab or Github.**

**I would like to know more in this area, if you don’t mind to share the knowledge to me.**