Digi-X “Lightning” Assessment for Quality Assurance

Congratulations on advancing to the next step!

There are two (2) sections to this assessment. You should try to answer both sections as best as you can.

**Please submit your answers via Github or a Google Drive link.**

Ideally, this assessment should take no more than 2 days. We encourage you to try submitting your response in the fastest time possible.

Go on, give it your best shot.

The Digi-X team wishes you the very best!

Section 1 - Theory

Section 2 - Technical Assessment

**Section 1**

* What is RTM and its use in testing life cycle?:

**Answer**: RTM is requirement traceability matrix, this document used to map user requirement and test cases. This is to ensure that all test cases and requirement are covered.

* When should we run a regression test on an application?

**Answer**: We should do regression testing, to ensure that newly changed code does not break the existing function of the application. In other word, need to make sure that the functionalities are working fine after an update is done.

* What is Database Testing and when should we consider testing database?

**Answer**: Database testing is to check that data is following the rules defined in data model.We should consider database testing, to make sure that the value that the application is getting and storing are accurate.

* What do you mean by Absolute and Relative xPaths? Which one should we consider to create our automation test scripts?

**Answer**:

Absolute Path start with forward slash (/), it identifies the element faster, but if anything goes wrong, or some other tag is added is between, path will no longer works

Relative xPaths start with double forward slash(//), by using this there is no need to mentioned long xpath but this is requires more time to identifying the element.In my opinion, absolute path is prone to regression as the changes in element may resulting it referring to wrong element. Relative Xpaths are more preferred as they are not the complete path and written directly using web element attribute. Thus, it will never failed to locate the object

* What do you mean by Iterative and Incremental development approach?

Answer: Its one of methodologies of agile development. The basic idea behind this method is to develop a system through repeated cycles (iterative) and in smaller portions at a time (incremental).Iteration is referring to development cycle, as end of iteration, working code is expected. This is contrast to waterfall where coding doesn’t begin until design on entire application is complete.

* Write Positive and at least 3 Negative test scenarios for below:

1. Description - User should be able to Log into the app using Facebook

Actor - User

Trigger - User launches the app and tries to log in

**Positive TC 1**

Verify that option to enter username, password and login button are available in login screen

**Positive TC 2**

Verify that user able to login with valid credential

**Positive TC 3**

Verify that password should be displayed in masked format instead of actual format

**Negative TC 1**

Verify that user not able to login with valid username, invalid password

**Negative TC 2**

Verify that user not able to login with valid password, invalid username

**Negative TC 3**

Verify that user not able to login with blank username and password

1. Description - User should be able to do a successful transaction using a Payment Gateway (Example -PayPal)

Actor - User

Trigger - User is on store screen and selects a product to pay

**Positive TC 1**

Verify that “Pay Now” button is available

**Positive TC 2**

Verify that transaction is successful when user entered correct TAC number when using online banking

**Positive TC 3**

Verify that transaction is successful when user entered valid credit card number/details when using credit card

**Negative TC 1**

Verify that transaction is unsuccessful when user entered incorrect TAC number when using online banking

**Negative TC 2**

Verify that transaction is unsuccessful when user entered invalid credit card number/details

**Negative TC 3**

Verify the error message when left blank for mandatory field for Address (shipping details)

**Section 2**

- Automate above scenarios to test on an Android and iOS device with OS 6.1.1 and 11.0 respectively using Appium.

**LoginTest**

**ANDROID**

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**iOS**

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**PaymentTest**

**ANDROID**

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**iOS**

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