TEST AUTOMATION ASSESSMENT – QUALITY ENGINEER (B)

Date	06/11/2018
Version	1.1

Pre-Required Steps

- Import the base project you received with this document in an IDE of your choice, either Eclipse or IntelliJ is fine;

- This is a Maven project, so using the Maven installation you have in your machine, run a “clean install” in the project in order to import the required dependencies. **If you are doing it from the MasterCard’s network**, remember to authenticate in the required firewalls and you may have to install the required certificates to enable the communication with the Artifactory servers.

Note: If you are facing issues in the steps above and could not run the initial build in your project or you need any further assistance, please reach out one of the following people for help:

- Felipe Carvalho
- Leonardo Nelson
- Any SET team member;

Assessment

You received a base project with some initial automation implemented for the well-known web store ***NetShoes***. Your mission here is to improve and complement the existing automation by doing the following tasks:

1) There is an existing story and a scenario, but the previous engineer did not organize it well. Having that said, use your knowledge in PageObjects to organize better the existing story and the steps class.

2) Implement the code for testing following ACs:

```
Scenario: The customer should be able to search for specific brands and products
Given the user access the NetShoes home page
When the user searches for the product ‘Nike’
Then the search results are displayed
And only items corresponding to the search term ‘Nike’ are displayed
```

```
Scenario: The product search result page should display more than 5 items
Given the user access the NetShoes home page
When the user searches for the product ‘Nike’
Then the search results are displayed
And more than 5 items should be displayed in the result
```

```
Scenario: The customer should be able to add items in the shopping cart
Given the user access the NetShoes home page
When the user searches for the product ‘Nike’
Then the search results are displayed
When the user adds 2 products in the shopping cart
And the user clicks on the shopping card icon
Then the shopping cart is displayed
And the shopping cart contains all products added by the user
And the total price should be the sum of the individual prices of each item

Scenario: The customer should be able to calculate the shipping cost in the
shopping cart
Given the user access the NetShoes home page
When the user searches for the product ‘Nike’
Then the search results are displayed
When the user adds 1 products in the shopping cart
And the user clicks on the shopping card icon
Then the shopping cart is displayed
And the user informs the CEP ‘83035-350’ in the ‘Frete’ field
And the user clicks on ‘Calcular Frete’
Then the shipping cost ‘FRETE GRATIS’ should be displayed to the user

Scenario: The customer should be able to clear the shopping cart
Given the user access the NetShoes home page
When the user searches for the product ‘Nike’
Then the search results are displayed
When the user adds a product in the shopping cart
And the user clicks on the shopping card icon
Then the shopping cart is displayed
And the shopping cart contains all products added by the user
When the user clicks on ‘Limpar Carrinho’
Then all added items are removed from the shopping cart
```

3) Write a new scenario using the BDD verbiage to describe the flow to sign up in the NetShoes web store. **You do not need to implement it** (no Java code required for this one), just write down with the narrative and scenario/steps/examples in a new story file within the project.

Tips:

- If you created a new page object do not forget to add the annotation “@PageObject” to your class. Otherwise the Selenium elements won’t be initialized.

- If you find something inside an iframe and need to interact with it, you will need to change the window context, for this use the command *webDriverProvider.get().switchTo().frame("<iFrameNameOrId>")* and after interacting with it, get back to the main window. Ask for assistance if needed.

- The webdriver used for the exercise is the chrome driver in the latest version, so it should run fine with the most up-to-date Chrome browser.

- For running your tests, use the class “AllStories.java” and run it as “JUnit” from the IDE

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Delivery

- This assessment is linked to the performance appraisal goals, so you may want to delivery before the end of the appraisal cycle, the deadline for this is on *July 11th 2018*;

- After finishing your code, create a Pull Request of your fork. Trainers will review your code and evaluate your assessment from there. More instructions on README of: https://bitbucket.org/leonardonelson/qe-assessment

Rules and Rating

- You can use the existing implementation as a reference, as well as, any reference from the internet.

- Your automation code will be evaluated based on the following criteria:

  - Exercise completion;

  - Proper BDD Verbiage and Story/Scenario coherence;

  - Test Execution and Assertion (If it really runs and really tests what was asked)

  - Test Automation Design (by applying the proper design pattern you have learned in the training);

  - Programming Logic and Object Oriented Programming (considering only test scripting practices);

- Your assessment will be checked and rated, then you and your leader are going to receive the grades. Feel free to reach out in case of any doubts.

Thank You and Good Luck!