HMRC Worthing test automation technical Test

URL Tested: <http://automationpractice.com/index.php>

Tools Used:

1. Java : Programming Language used to develop the framework
2. Selenium WebDriver : is used to create the automation suite for testing web application. It contains a collection of API’s that are used to interact with the web application through browser.
3. Page Object model : is a design pattern used in test automation to reduce code duplication. A page in this model is a object oriented class which acts like an interface to that web page in the automation framework.

We can then use the methods in this class to interact with different elements on the page.

1. Cucumber BDD : Cucumber is a tool that allows us to write a test in a descriptive manner, we can write tests in feature files separately for each feature of the application. Enables easier communication of user stories between the business and technical teams.
2. Maven : Maven is a software project management tool, based on POM(Project object model), it is used to manage a projects build and also execute the test cases in our automation project.
3. Intellij : is the editor used to write the automation framework programming. It is popular tool with lot of features that help to write code quickly and effectively.
4. Git: Git is a version control system that is used to track projects and changes to project files , is used to setup project repository and share amongst multiple users while allowing them to make changes.
5. Log4J : is a logging utility used to log messages and information as the project is executed.

The above tools used are some of the popular and effective tools in the software automation. They have been used in multiple successful projects and hence I have chosen them. The test framework can further be enhanced and optimised to include industry standard best practices.

Test cases written:

**Feature:** Add a dress with maximum price to cart  
  
 @Test  
 **Scenario:** Register a new customer account and add maximum price dress  
 **Given** I am on the signIn or create account page  
 **And** I create a new customer account  
 **And** I add a dress of highest price to my cart  
 **And** I sign out of my account  
 **And** I am on the signIn or create account page  
 **And** I log back into my account  
 **Then** The dress **is not** available in my cart  
*# Then The dress is available in my cart* @Test  
 **Scenario:** Sign In Using an existing account and add maximum price dress  
 **Given** I am on the signIn or create account page  
 **And** I login using email **devadathpt@gmail.com** and password **Swaroopa@123  
 And** I add a dress of highest price to my cart  
 **And** I sign out of my account  
 **And** I am on the signIn or create account page  
 **And** I login using email **devadathpt@gmail.com** and password **Swaroopa@123  
 Then** The dress **is not** available in my cart  
*# Then The dress is available in my cart*

Command to execute the tests:

mvn install test -Dcucumber.options="src/test/resources/feature/Addcart.feature --tags @Test"

OR

Run the windows batch file ExecuteTest for windows environment.

Run the shell script ExecuteTest.sh for unix/Linux environment.

Bug : The scenario requested is suppose to test whether a product added to cart is available once the user logs out and then logs back in. However, the application does not seem to behave as expected.

Once the user logs out, the cart is getting cleared and is empty.

I have written step definitions for both checking that the cart is populated and also that the cart is emptied , upon the user logging back in.

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