**HOME ASSIGNMENT - Selenium Automation**

Please find the assignment details below:

**Assignment Details:**

Use the site - <https://magento.softwaretestingboard.com/>

1. Create at least 8 test cases across different pages
2. Create a Page Factory Framework using TestNG to implement these test cases.
3. The framework should have following features –

* Test Data should be read from properties file
* Use Maven as build execution tool
* Implement proper waits.
* The global configuration values like browser name, test site URL, global wait value etc. should be read from a properties file
* The test should run on following browsers Chrome, FF, IE (Safari, in case using Mac machine)
* Put proper assertions with error description and if any test cases fail take a screenshot with the name same as test case and appended by a brief description of error in the screenshot file name (For e.g., TestCase1\_Invalid\_Credentials).
* Create Extent report. Customize the report to append error screenshots. At the end of a test execution, move the results (the extent report and error screenshots) to a folder with the name “Current test results”. The folder name should reflect the date time of the run. At the start of the results the result of the current test result should move to a folder with the name “Archived test results” and clean the “Current test results” folder to store the new results.

1. Create multiple testing.xml file e.g., implement parallel execution, grouping, listeners etc
2. The tests should be runnable from command line
3. Add Readme file to the project with proper instructions to be followed for setup and execution
4. Create at least one test using Data provider. (Bonus points for Excel Integration and reading data from Excel sheets.)
5. Logging in the framework level using log4j (Bonus points for logging in file)   
   \*\*\* Kindly use the latest log4j dependency

Please make sure –

* The code should be maintainable, reusable, and readable. Hence use proper comments and formatting.
* The code should be modular and crisp
* Think of some innovative and optimized way of creating the framework to give it a wow factor
* The code should be in a running condition and should be executable from any machine just by downloading the code and having the prerequisite software’s like Java, TestNG, Maven etc. installed in the system. Ensure there is not hard coded paths in the code.