Automation technical Test

WebService Tested:

http://www.dneonline.com/calculator.asmx

Tools Used:

1. Java : Programming Language used to develop the framework
2. 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.
3. 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.
4. 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.
5. 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.
6. 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:** Caluculations  
  
 @Test  
 **Scenario Outline:** Perform add / multiply / substractions  
 **Given** I am using a caluculator webservice **http://www.dneonline.com/calculator.asmx?WSDL  
 When** I want to perform **<operation>** of **<a>** and **<b>  
 Then** the result is **<c>  
 Examples:  
 |***a* **|** *b* **|** *c* **|** *operation* **|  
 | 5 | 3 | 8 | addition |  
 | 5 | 3 | 2 | substraction |  
 | 2 | 6 | 12 | multiplication |  
 | 10| 5 | 2 | divide |**

Command to execute the tests:

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

OR

Run the windows batch file ExecuteTest for windows environment.

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

Cucumber Report : target/cucumber-html-report/index.html

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