Automation technical Test

URL Tested: https://www.wikipedia.org/

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:** Search for a String in wikipedia  
  
 @Test  
 **Scenario Outline:** verify search resutls and verify other language transation  
 **Given** I am on the wikipedia home page  
 **And** I enter a string **<searchWord>** to search for Language **<language>  
 Then** the page heading matches the string **<searchWord>  
 And** There is a link to language **<translateToAnotherLanguage>  
 And** I successfully navigate to the page in language **<translateToAnotherLanguage>  
 And** There is a link to language **<language>  
 And** I successfully navigate to the page in language **<language>  
 Examples:  
 |** *searchWord* **|** *language* **|** *translateToAnotherLanguage* **|  
 | kew Gardens | English | French |  
 | kew Gardens | English | Telugu |**

First Example : Passing Scenario

Second Example : Failing Scenario

Command to execute the tests:

mvn test -Dcucumber.options="src/test/resources/feature/caluculateWebService.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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