The project GitHub link is: <https://github.com/PrekshaKasliwal04/Test_Assignment_CafeTownSend>

**Project Introduction:**  
It is a Maven-based project withSelenium TestNG Framework is written in JAVA language.  
Page Object Model design pattern has been used to create an Object Repository for web elements with a focus on to achieve Code Reusability and Code Maintainability. 

**How To Execute:**Assuming your system is equipped withJAVA and Maven,  
(Can be checked using command ‘mvn –version’ and ‘java –version’ from Command Prompt.)  
Download the project in a zip file(or clone) and then extract it to a location.  
  
Go to the directory where pom.xml file of the project is located and run command as:

mvn test -DbrowserName=FIREFOX -Denvironment=CAFETOWNSEND -DsuiteXmlFile='testng.xml'  
(This ensures tests to run on Firefox for environment CAFETOWNSEND using testing.xml )  
This is tested with Java 1.8 version and Maven 3.2.1 version.

Alternatively,  
If you have Eclipse or any other similar IDE ready in your machine, Import the maven project and then run in either of below ways:  
1. Using pom.xml file: Right-click and Run as Maven Install or Maven test.  
2. Running testng.xml file: This file is under the suites folder and can be run using a right-click option.

**Framework Choice:**

The combination of Selenium and Java is preferred as an automation framework because of being highly flexible due to its compatibility with a wide range of browsers and scripting languages.   
Java provides us different libraries that can be used directly in the project.  
TestNG is used to handle the automated test suite execution and report generation.

**Key Notes:**

         Framework is designed to retry failed test cases twice.

         Browser, environment and TestNG suite parameters can be passed from pom.xml.

         Properties file is used to maintain object repository. (All locator values are mentioned inside it along with environment.properties to make it easy to amend values without actually changing the class files.)

         Reusable and common operational methods are written to optimize code inside package com.basesource.actions

Thanks  
Preksha