

Solution for Test Tasks

Introduction:

As a solution of Test tasks. I have created the Test Automation framework using which we can capable to write automated scripts for User Interface as well as API tests.

Pre-requisite:

- **Java** as Programming language.
- **TestNG** as Base Testing framework
- **Selenium** for UI automation
- **Rest-assured** for API automation
- **Log4j** for Logging feature with **spring** class dependency injection
- **Maven** as Build tool
- **Page object model** with Layered architecture

Steps:

1. Unzip the code.
2. Import the code into IDE for better visibility. (preferably, IntelliJ IDEA with maven auto-import enabled)
3. Run with "testNG.xml" file.
4. It will generate the "test-run.log" file in "result" folder.

Folder Structure:

```
| pom.xml (Maven Configuration File)
|
| src
|   | main
|   |   | java
|   |   |   | pages (Contains Page classes)
|   |   |   | logger(Contains Log4J logger class)
|   |   |   |
|   |   | resources/log4j.properties (Log4j Properties file)
|   |   |
|   | test
|   |   | task.tests(Contains Test classes & a TestBase class)
|   |   |   | api (Contains API tests with APITestBase class)
|   |   |   | ui (Contains UI tests with UITestBase class)
|   |   |   | TestBase.java (TestBase Super class)
|   |
| result
|   | test_run.log (Execution logs for last run)
|
| target (Maven Generated Build classes and jars)
|
| testNG.xml (TestNG configuration file)
```

NOTE : The doc-string is available in classes for method description

Tests Automated:

1. Selenium Test: Verify User is not able to login with wrong credential
2. API Test: Verify country name is present in response result.