# MonkeyUser.com

Automation Test Execution using Selenium and TestNG.

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# GitHub Details

Project Repository URL : <https://github.com/jayashree29292/monkeyUserTest/tree/master/monkeyUserTest>

# Pre-Requisites

The below components should be available,

1. System with Java installed.
2. IDE (Example: Eclipse).
3. TestNG installed in the IDE.
4. SSH keys should be configured in IDE and GitHub website.

# Steps to set up Automation Framework

The below steps should be followed to perform the initial set-up on your local machine.

1. Launch the IDE.
2. Clone repository from GitHub.
3. Add selenium jar files to the project’s build path.

Location: \lib

jar name: selenium-server-standalone-3.141.59.jar

1. Verify TestNG is added to the library > Classpath

# About the Automation Framework

* Configuration details
  + Location: \config
  + File name:
    - config.properties :

Contains generic config details such as browser, test application URL

* + - WebElementProperties.properties

Contains web element identification properties

* testRunner.java
  + Location: \src\runners

All test cases execution is controlled here, user can change and control the test execution.

* testFunctions.java
  + Location: \src\appFunctions

All test cases are implemented here.

* DriverFactory.java
  + Location: \src\core

WebDriver related functions are implemented here.

* PropertiesFileHandler.java
  + Location: \src\utility

Utility functions are implemented, Example: PropertiesFileHandler

# Steps to Execute Test

The below steps should be followed to execute the automation,

1. Execute suite as TestNG
2. Test Data:

-For few cases there is a dependency of test data, which is given in testRunner file itself

-User can change the values or add new data

1. Once execution is complete, User can view the test results from the following location,

Location: \test-output

File name: emailable-report.html

Also, user can view the IDE console for additional details

# Why Selenium and TestNG.

The monkeyuser.com is a web application and the best tool for this automation is Selenium.

Below are some reasons for choosing Selenium:

1. Ease of use, implementation and re-usability.
2. Free and open source availability
3. There is multiple languages and framework support
4. It has multi-browser support
5. Support across various operating systems.

TestNG was chosen as the testing automation framework because of some reasons,

1. TestNG gives ability to produce HTML reports of execution with status of passed, failed and even skipped test cases.
2. Annotations are so effective and easy to manage code.
3. It helps in controlling dependency between tests.
4. Flexibility to group and prioritize execution.
5. Data sets can also be provided through Data provider.

# Automation Framework scalability plans.

As part of further scalability, the following components can be implemented.

1. Control execution and test data by maintaining details in an excel file.
2. Implement screen capture to provide evidence of test.
3. Implement third party report tools such as extent test report for easy understanding.
4. Integrate to JIRA for auto update test execution status.
5. Integrate to Jenkins or any other CI/CD tools to achieve continuous testing.