**TessyAutomation – Hybrid Framework**

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| Project Name | TessyAutomation |
| Author | Kannan Nagaraj |
| Version | V1.0.0 |
| Change history | Initial version |
|  |  |

1. **Objective**

To automate the testcases running for regression testing and re-testing. To achieve this to build a automation framework which will take care of regression testcases execution and re-testing.

1. **Solution Overview**

Building a automation framework which will take care of regression testcases execution and re-testing. It should be scalable, maintainable and configurable.

1. **High level Design**
2. **Packages used**

Its is been created using Python v3.9.2 programming language and used the below packages.

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| --- | --- | --- |
| **Packages** | **Vesion** | **Purpose** |
| Selenium | 3.141.0 |  |
| configparser | 5.0.2 | To read the configuration from TestConfig.cfg |
| xlsxwriter | 3.0.1 | To write the data into xlsx file |
| openpyxl | 3.0.8 | To Read the data from xlsx file |
| webdriver-manager | 3.4.2 | Used to initiate the drivers |

1. **Prerequisite**
2. Python v3.9.7 need to be installed in local
3. PyCharm IDE
4. **Configuration details**

The below settingkey are available in TestConfig.cfg file in the project.

**6.1** **TestConfig.cfg File**

|  |  |  |
| --- | --- | --- |
| **SettingKey** | **Description** | **Example** |
| ProjectName | Name of the project |  |
| LogPath | Place where you want to put your logs | D:/testlogs |
| ScreenshotsPath | Place where you want to put failure cases screenshots | D:/testScreenshots/ |
| ReportPath | Place where you want to put your Reports | D:/Testreprot/ |
| ReportName | Report will be having the same name | TestReport |
| ReportFormat | Format of the report | html, xlsx |
| TestCasePrefix | Testcase prefix name, based this name only framework will identify the testcases | TC00 |
| TestDataPrefix | Testdata prefix name, based this name only framework will identify the testdata | TD00 |
| TestCasePath | Full root path, based this name only framework will identify the testdatapath | c:/testsuite/ |
| TestDataPath | full root path, based this name only framework will identify the testdatapath | c:/testsuite/ |
| Headless | Based on this value, framework will decide to open brower or not | True or False |

**6.2 Testcase path**

Testcases are should be in the following folder structure.

TestCase\_Foldername=’TestCasePrefix’ +1 ex: TC001

It should start from 1 to n number of test cases.

Inside the ‘TC001’ folder, there should be a folder called ‘TestCase’.

Inside the ‘TestCase’ folder, Testcase file should be there. EX : TC001.xlsx

Rootpath can be like :

Ex: RootFoldername/TC001/Testcase/TC001.xlsx

**6.3 TestData path**

Similar to the test cases path, test data also should have the same pattern.

Ex: rootfoldername/TC001/TestData/TD001.xlsx

1. **Class Diagram**

