**Keyword Driven Framework**

**Excel File Requirements**

1. Sheet Naming Convention
   1. The Test Suite sheet name must end with “\_Suite”
   2. The Test Data sheet name must end with “\_Data” or “\_Global\_Data”
   3. The Test Suite and Test Data sheet name must be matching the first part before the “\_”.

For example, the Test Suite sheet name is “Test1\_Suite”. The Test Data sheet name must be “Test1\_Data”

* 1. The Test Data sheet is only available if the Test Suite has value in the “TestData” column
  2. The Test Data Sheet should be after its Test Suite Sheet

1. Suite Sheet Restrictions
   1. The first row must following the below sequence order
   2. The ‘Must have value’ with the “x” mark is indicated mandatory columns

|  |  |  |
| --- | --- | --- |
| **Column Header Name** | **Must have value** | **Notes** |
| TestActionName | x | * Only at the first row of the block that belongs to this TestActionName   Example:   |  |  |  |  |  | | --- | --- | --- | --- | --- | | **TestActionName** | **Index** | **PreAction** | **ElementName** | … | | LoadLoginPage | 1 |  | url | … | | LoginTest | 2 |  | YourAccount | … | |  |  |  | username | … | |  |  |  | passwd | … | | SuccessLogout | 3 |  | YourAccount | … | |  |  |  | SignOut | … | | … |  |  |  |  |  * TestActionName “LoadLoginPage” and ElementName “url” are mandatory values |
| Index | x | * Only at the first row of the block that belongs to this TestActionName * The value is in numeric value such as 1, 2, etc |
| PreAction |  | * The value must be available in the TestActionName list * Multiple PreAction values are allowed with comma separator |
| ElementName | x |  |
| ElementIdenficationKey | x | * Not required if TestActionName is “LoadLoginPage” * Must only using the available ElementIdentificationKey keyword. Refer to the below References |
| ElementIdenficationValue | x | * Not required if TestActionName is “LoadLoginPage” |
| Action | x | * Must only using the available Action keyword. Refer to the below References |
| TestData |  | * If TestData has value, it must be available in the TestData sheet. See the below #3 for further information |
| PostAction |  | * The value must be available in the TestActionName list * Multiple PostAction values are allowed with comma separator |
| TestGroup |  |  |
| TestRun | X | Must be at the same row with the TestActionName  Valid value is “Y/y” or “N/n” |
| EndTestActionName | x | * Must match with the TestActionName value * Only at the last row of the block that belongs to the TestActionName   Example:   |  |  |  | | --- | --- | --- | | **TestActionName** | **…** | **EndTestActionName** | | LoadLoginPage |  | LoadLoginPage | | LoginTest | … |  | |  | … |  | |  | … | LoginTest | | SuccessLogout | … |  | |  |  | SuccessLogout | | … | … | … | |

1. Data Sheet Restrictions

* Each TestData column in the TestSuite, get the list of ElementName which has the Action as “enterValue”, “hasValue”,”selectDropDownList”
* The first column value must be matching with the TestData value in the TestSuite Sheet
* The second column header must have data “Run”. It must has value as “y”, or “n”. It’s case insensitive
* Adding each ElementName from the above list as in column field
* Must have the matching TestData value in the last column and the last row of the TestData block
* If the TestCase needs input values, need to provide TestData name. The TestData name must be in one of the Data Sheet
* The TestCase has PreAction or PostAction. This TestCase doesn’t need input value. The TestActionName in the PreAction or PostAction are required input value, TestData must be mandatory
* The TestCase has PreAction or PostAction. The TestActionName in the PreAction or PostAction are required input value, the TestData Set will have all the input values which belongs to the PreAction or PostAction and combine with the Elements needs input from the TestCase
* Can reuse the same TestData if it has the matching Data Set
* Unique TestActionName across all the Suite Sheets
* reSize value must have 2 integers with comma separate
* TestDataSet must have the required input ElementName, extra columns are fine

**References**:

|  |  |
| --- | --- |
|  | **Keyword** |
| ElementIdentificationKey | * id, * xpath, * Link, * name, * URL, * pageTitle, * window, * methodinvoke, * css, * multiValueXpath, * multiValueCss, * multiValueLink, * multiValuePartialLink, * multiValueClass, * multiValueTag |
| Action | **Window Actions**   * swipe, * scroll, * zoom, * tap, * pinch, * resize, * getCoordinates, * getSize   **Page Actions**   * click * hover * doubleClick * clear, * submit, * check, * uncheck, * dragAndDrop, * selectDropDownList, * getText, * getCssValue, * getWebElement, * clickEvent, * loadPage * scrollToElement   **Form Input Actions**   * enterValue, * sendKeys   **Assert Actions**   * hasValue, * hasContent, * hasName, * hasSrc, * hasHref * isElementVisible, * isEnabled, * isSelected, * isDisplayed, * isChecked * hasChildCount * isDisplayed * isEnabled * isElementVisible * isSelected * isChecked * isGreaterThan * isLessThan * hasImageTitle * hasImageAltText * hasStyle * styleContains * isSuccess * isCreated * isAccepted * isInformationPartial * hasNoResponse * isBadRequest * isUnauthorized * isPaymentRequired * isForbidden * isNotFound * hasInternalError * hasNotImplemented * isServiceOverloaded * isGatewayTimeout * isURLRedirected * isURLMoved |