

Framework

Framework : It is a set of rules and guidelines to be followed for automating the Application.

In the framework we have 3 stages

1)Design

2)Implementation

3)Execution

1)Design : Design is basically done by architects or test managers or test lead based on the previous experiences

2)Implementation: this is done by all the automation engineers based on design of the framework

3)Execution: this is done by Jr. Automation Engineers/Freshers.

Automation Framework Explanation:

In our project we make use of hybrid framework which is a combination of

- ➔ Data Driven Framework
- ➔ Method Driven Framework
- ➔ TestNG
- ➔ POM

Retrieving the data from the excel sheet and running the script is known as data driven framework.

In order to avoid the repetition of the code we develop the generic methods and is called as Method Driven Framework

TestNG is a unit Testing framework and is used to run multiple testcase at the same time ,to generate the reports and for verification.

In our design:

1)We keep key,value and path inside the constant Interface, because inside an interface all the values are public static final variables.

2)We Created a class with Name basetest, inside that we have static method,We specify the path of the driver executable in the static method, since key and value are present inside constant interface, we implement the constant interface.

3)We have @Beforemethod which is used to open the Browser,to either the URL we are fetching the data from the excel sheet.

4)We have created the POM classes depending upon the number of pages in the application. POM classes will contain all the web Elements present in the web Page and methods to perform actions on that Web Elements.

5)We use @Test to write our test script, In our test script we fetch the data from excel sheet ,create an object of the POM and access the method from the POM class .each and every test classes should extend from the basetest class.

6)Once after the executin @AfterMethod will close the application .

Resume Points:

- ✓ Worked on Hybrid Automation Frame-Work to write Automation test scripts using Java, Selenium WebDriver and TestNG.
- ✓ Hands on experience of working with TestNG, POM classes, Apache POI.
- ✓ Knowledge on TestNG Annotations, Grouping, and Parallel execution.
- ✓ Excellent in writing Xpath expression.
- ✓ Good in handling pop.
- ✓ Executed test scripts on Chrome.
- ✓ Good knowledge on locators.