**Framework:**

1. It is a *well organized structure of components* where one Driver/.xml takes care of entire batch execution without any manual intervention.
2. It is a collection of **reusable components** that makes automation *development /execution/modification /maintenance easier*.

**Components of a framework:**

1.commonUtility/genericLibrary

2. objectRepository

3 Testdata

4.Resources

5. .Testscripts

6.TestNG.xml

7.HTML report

8.screenshot

**1.commonUtility/genericLibrary** : It is a collection of common classes/methods that can be used in any project so called generic.it contains several classes

1**> BaseClass**: It contains several testng annotations like

@BeforeSuit

@BeforeTest

@BeforeClass

@BeforeMethod

@AfterMethod

@AfterClass

@AfterTest

@afterSuit

2>**FileUtility:** this class contains methods which are helpful in fetching the data from properties file

3>**JavaUtilityClass :** java specific reusable methods like generating random number ,systemdates

4>**ExcelUtility:** it contains the reusable methods through which we can fetch the data from excelfiles. It is implemented using apache poi.

5>**webDriverUtility**: it contains reusable webdriver specific methods like switchToWindow ,mehods regarding alertpopup,implicitwait,explicitwait,dropdowns etc.

6>**IAutoconstant**: It is an interface which keeps data variables that are static final type.like url,Timeduration of implicitlywait explicitwait.

6>**Listenerimplementationclass:** it is implementation of testing listener the methods under this is used to take screenshot and configure Extentreports.

7>**RetryListener:** through this failed testscript gets executed a no of times.

**2.objectRepository**: Now a days because of frequent change in requirement from customer side xpath needs to be changed every now and then .so we have stored all the webelements along with locator and business logics in this package. This package is specific to the application.

**3.Testdata :** data are of basically two types common data and test data .common data(few data) are kept in properties file while test data(vast data) are kept in excel sheet.easier for us to change url ,…

**4.Resources:** it contains chromedriver geckodriver,etc along with documents related to framework.

**5. .Testscripts**: when the commonutilty and objectrepository are developed we go for writing test cases with @Test annotation.