

Automation Framework:-

#. We Organize Automation Project files/folders in structured manner.

Objective:-

1. Reusability

2. Maintainability

3. Readability

Types of Framework

1. Built-in

Example:- TestNG, Cucumber, Junit etc....

2. Customized (user defined)

#. Modular framework, data driven, keyword driven, hybrid driven etc...

Phases:-

1. Analysis AUT

- Number of Pages

- What are all Web Elements/type/how

- What to automate/what we cannot automate

Number of Web Page=The Number of Page Object Class.

2. Choose Test Cases for Automation

Example:- 100 Test Cases ---> 80 automatable> 20 Not automatable

100% Automation

- i. **Smoke Pack Test Cases-P1**
- ii. **Sanity Pack Test Cases- P1**
- iii. **Regression Pack Test Cases-P1/P2**
- iv. **Any Other Test Cases: - P3/P4**

3. Design and Development of framework.

4. Execution: - local, remotely

5. Maintenance

Technology: -

#. Selenium, Java, TestNG, Cucumber etc....

Domain

#. Banking, Insurance, HealthCare, Utility, Supply Chain, Logistics, E-commerce, Telcom etc....

E-Commerce Domain

1. Frontend Operations (Users/Customers)

- Register an Account**
 - Login**
 - Search for the Product**
 - Add/Edit/Delete product from the cart**
 - Order Product**
 - Review**
- etc.....**

2. Backend (admin/ Backend teams)

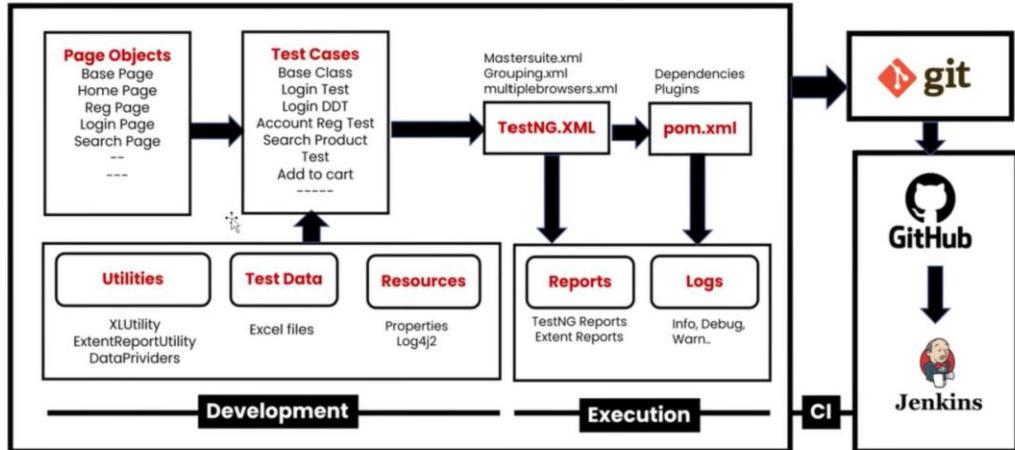
- 1. Product**
 - 2. Customers**
 - 3. Orders**
 - 4. Store**
- etc.....**

Test Scenarios

Test Cases

Hybrid Automation Framework

(Java, Selenium, TestNG, Maven & Page Object Model)



Development of Hybrid Driven Framework:-

1. Test Case : Account Registration

1.1 Create BasePage under 'pageobjects' which includes only constructor.This will be invoked by every page

Object Class constructor. (Re-Usability)

1.2 Create Page Object Classes for HomePage,RegistrationPage under 'pageobjects' package.

(These classes extends from BasePage)

1.3 Create AccountRegistrationTest under 'testcases'

1.4 Create BaseClass under testbase package and copy reusable methods.

1.5 Create re-usable methods to generate random number and String in BaseClass.