Types OF Framework

TDD [test driven devlopment]   BDD [Bhaveiour driven dev]

testNG   Cucumber
Junit   JBehave
Pyunit
Mocha
Nunit

Automation Framework

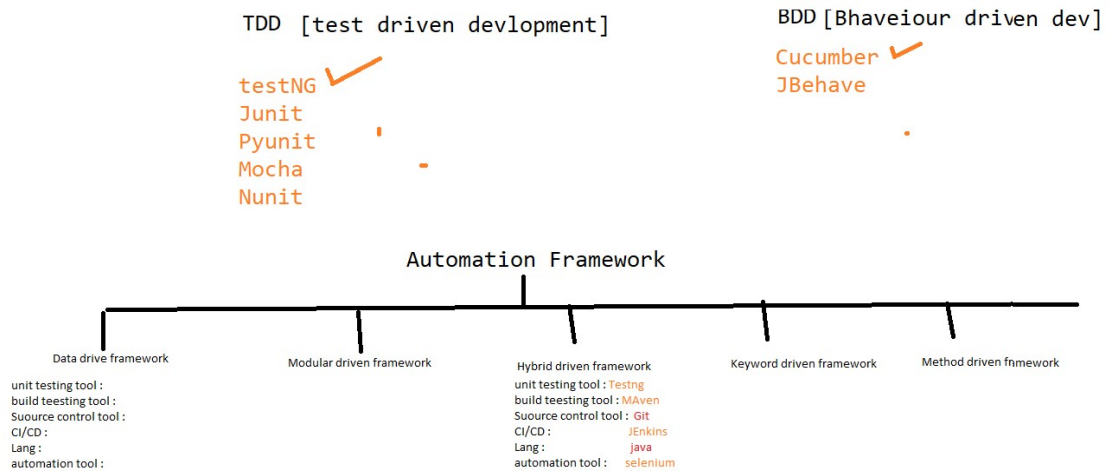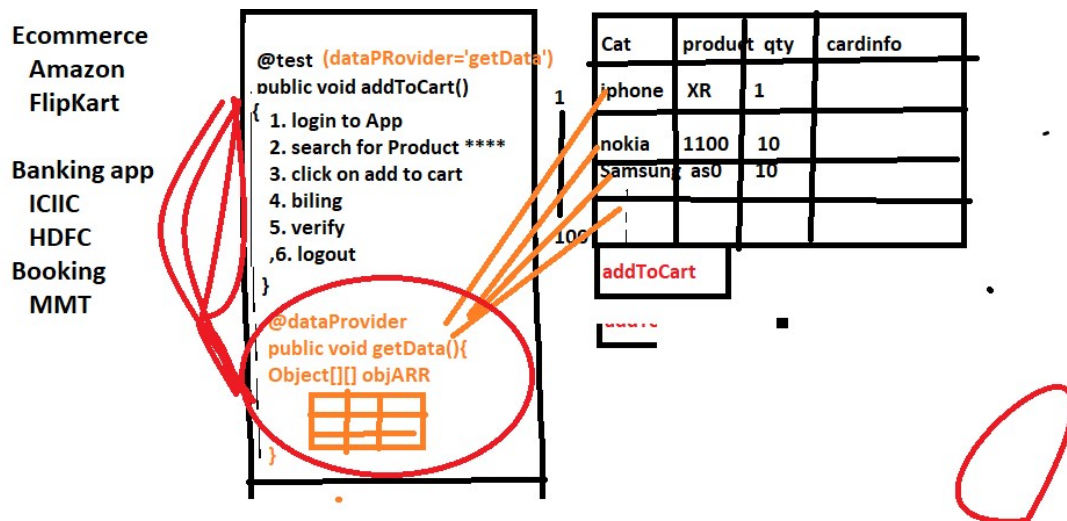| Data drive framework	Modular driven framework	Hybrid driven framework	Keyword driven framework	Method driven frmework
unit testing tool :		unit testing tool : Testng		
build teesting tool :		build teesting tool : MAven		
Suource control tool :		Suource control tool : Git		
CI/CD :		CI/CD : JEnkins		
Lang :		Lang : java		
automation tool :		automation tool : selenium		

1. Data drive framework
2. Modular driven framework
3. Hybrid driven framework
4. Keyword driven framework
5. BDD framework

What is Data driven Framework

Ecommerce
Amazon
FlipKart

Banking app
ICIIC
HDFC
Booking
MMT

```
@test (dataPRovider='getData')
public void addToCart()
{  1. login to App
   2. search for Product ****
   3. click on add to cart
   4. biling
   5. verify
   ,6. logout
}

@dataProvider
public void getData(){
Object[][] objARR

}
```

Cat	product	qty	cardinfo
iphone	XR	1	
nokia	1100	10	
Samsung	as0	10	

addToCart

Whenever we need to test the application with huge set of data , we go for data driven
framework
In data driven framework every test will have dedicated @dataProvider annotation & will
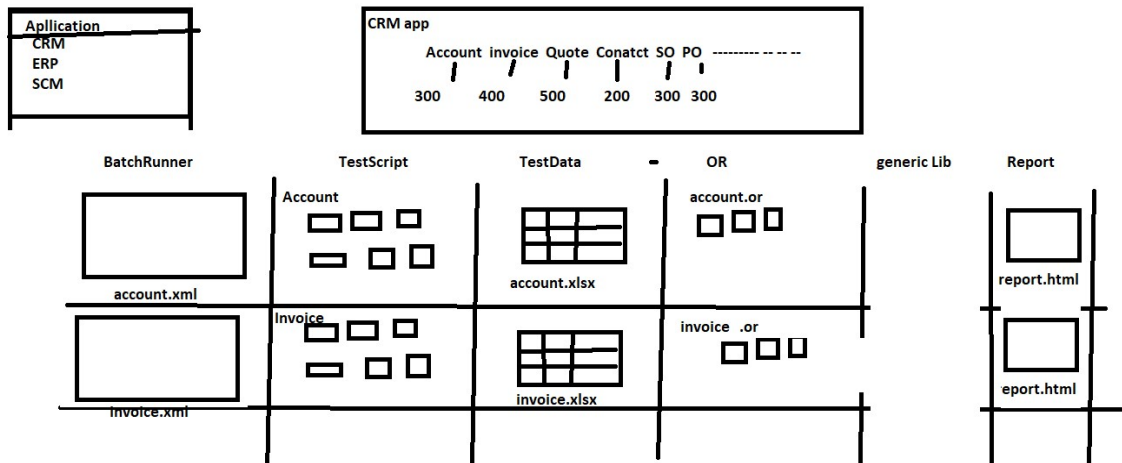have separate excel sheet for every test

@dataProvider

When ever need to execute same test with different set of data we go for dataprovider annotation
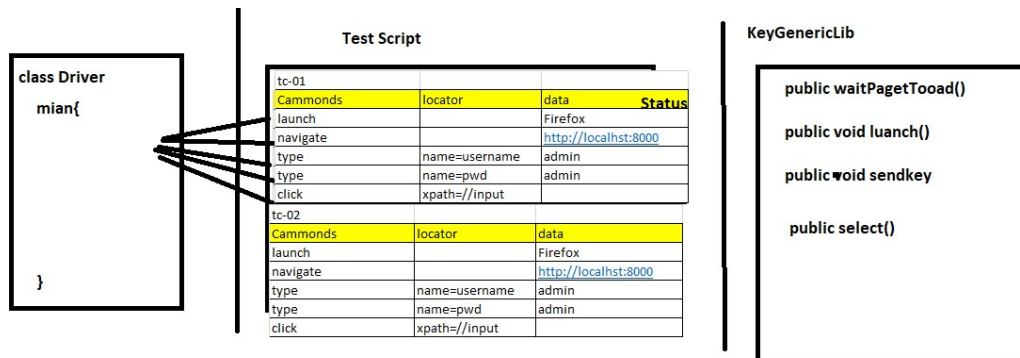

What is modular driven framework

When ever application is huge / contains lots of module we prefer modular driven framework

In modular driven framework , all framework components will maintain in module wise

Apllication
- CRM
- ERP
- SCM

CRM app

Account invoice Quote Conatct SO PO ---------- -- -- --

300   400   500   200   300 300

BatchRunner	TestScript	TestData	—	OR	generic Lib	Report

Account

account.xml

account.xlsx

account.or

report.html

Invoice

invoice.xml

invoice.xlsx

invoice .or

eport.html

What is KeyWord driven Framework

When manual test Engineer want to write Automation test script With less knowledge on automation tool &without knowledge coding we go for keyword Driven framework

class Driver

mian{

}

Test Script

tc-01			
Cammonds	locator	data	Status
launch		Firefox	
navigate		http://localhst:8000	
type	name=username	admin	
type	name=pwd	admin	
click	xpath=//input		
tc-02			
Cammonds	locator	data	
launch		Firefox	
navigate		http://localhst:8000	
type	name=username	admin	
type	name=pwd	admin	
click	xpath=//input		

KeyGenericLib

public waitPagetTooad()

public void luanch()

public void sendkey

public select()

Hybrid driven framework

Combination of more than one framework is called hybrid driven framework

EG : the framework which we designed is hybrid because its combination of data driven + Modular driven + kewordword driven framework + Method driven

BDD Framework

RG
Design
Dev
test
Imp
Main

Req are written using using Gherkins

addToCart
Gherkins :
   given : launch the browser
   when : navigate to URL
   then : verify the title

   given : eneter username & password
   when : click on login button
   then : verify the home page

req.feature

Cumber tool

Runnerclass

{ '

}

step defnation

Scenario
class AddToCart{
@given
public void launchTheBrowser(){

}

@when
public void naviateToURL(){

}

@then
public void verify(){

}

TDD

RG   CRS

DESIGN

Dev

testing (testCase)   Automation team

IMP

BDD

RG   Gherkin Lang : given, when, then, and

DESIGN

Dev

testing (testCase)   Automation team

IMP

Given : launch the Brower
When : enter the URL
Than : Verify the title
and
When : login to app
then : verify the tittle