JUNIT
JAVA

Unit Testing Framework - [TestNG
                                    JAVA

https://testng.org/doc/download.html

Unit Testing

TestNG →
    ↱
    Next → Generation

Features of TestNG → Unit Testing

① → Annotations → Small piece of code , decides
the execution Methods
sequence of

Starts with → ' @ '

execution of methods happens alphabetically order

(2) Generate the Test Result Report

(3) Parallel Execution on a Single M/c across diff browser

(4) Prioritisation → login, logout①, create user②,

delete user③

(5) Grouping → Smoke, functional, Regression, Sanity

groups

(6) Assertions → for validations   → if/else ✗

(7) depends On Methods ✓ — Login (), Logout () ✗

(8) Ignore the TestCase

Note:- In TestNG There is no need of psv main () method

Annotations

@ BeforeSuite

@ BeforeTest →

@ BeforeClass → (I Time) N.M

x @ Before Method → N·M· (I Time)

Method ← [@ Test → for TestCase — Mandatory

@ AfterMethod → N·M (I Time)

→ N·M

@ AfterClass

@ AfterTest →

@ AfterSuite →

[Test Suite
↳ Collection of TCs]

Before Suite

Before Test

Before Class

Before Method

TC1 —

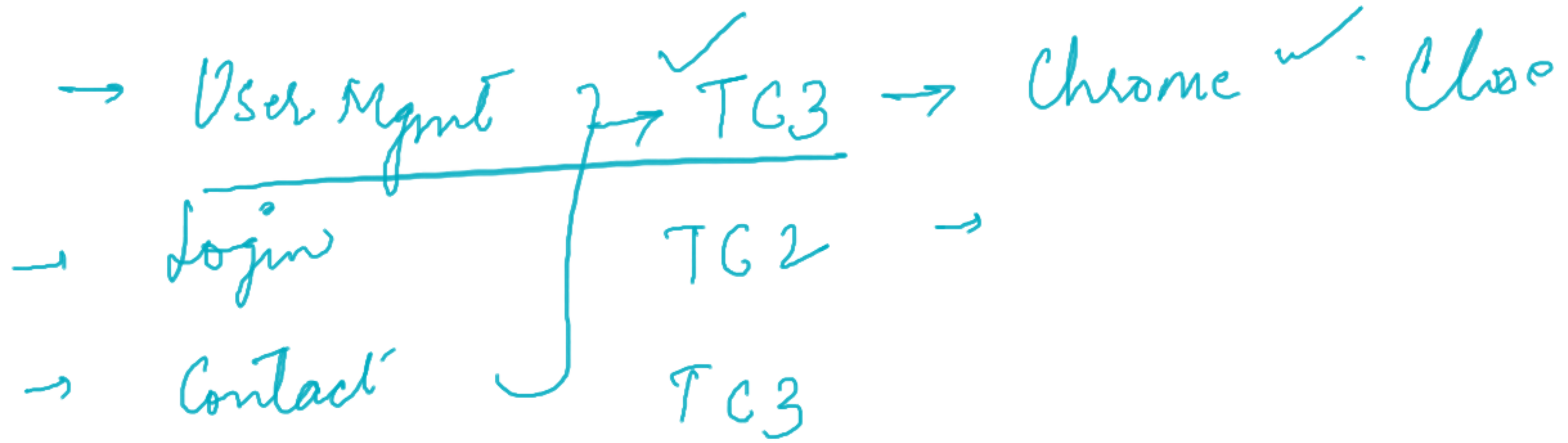After Method

Before Method

TC 2 —

After Method

After After Class

After Test

After Suite

→ User Mgmt ⟶ ✓ TC3 → Chrome w. Close

→ Login

→ Contact

TC 2 →

T C 3

@BeforeSuite - this method gets Executed at project level, before the BeforeTest annotation or other annotations

@BeforeTest - this method gets Executed at before the beforeclass annotation

@BeforeClass - this method gets Executed at class level, before the execution of @test or any other annotations

@BeforeMethod - this method gets Executed before the each @Test method

@Test - aTestCase - TestCase1

@AfterMethod - this method gets Executed after the each @Test method

@BeforeMethod - this method gets Executed before the each @Test method

 @Test - bTestCase - TestCase2

@AfterMethod - this method gets Executed after the each @Test method

@AfterClass - this method gets Executed at class level, after the execution of @test or any other annotations

@AfterTest - this method gets Executed after the afterclass or other annotation

@AfterSuite - this method gets Executed at project level, after the BeforeTest annotation or other annotations

```xml
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE suite SYSTEM "http://testng.org/testng-1.0.dtd">
<suite name="All Test Suite">
    <test verbose="2" preserve-order="true" name="F:/Upgradation_Selenium/
LearnSeleniumTool">
        <classes>
            <class name="testNGDemos.TestNGAnnotations">
                <methods>
                    <include name="aTestCase"/>
                    <include name="bTestCase"/>
                    <include name="afterMethodAnnot"/>
                    <include name="afterClassAnnot"/>
                </methods>
            </class>
            <class name="testNGDemos.TestNGAnnotations_realEx">
                <methods>
                    <include name="browserLaunch"/>
                    <include name="launchApp"/>
                    <include name="loginApp"/>
                </methods>
            </class>
        </classes>
    </test>
</suite>
```

(1) (2) (3)

CM   Cl2

methods

Before Suite

Test

Class

Method

— @Test

After Method

Class

Test

Suite