Data Provider / Parameterisation

Login

$$\begin{bmatrix} \text{Execution of single TC} \\ \text{using various Test Data} \end{bmatrix}$$

$$\begin{bmatrix} V & V \\ V & I \\ I & V \\ I & I \end{bmatrix}$$

Login

Excel Data ← $\begin{bmatrix} \cdot XLS \\ \cdot xlsx \end{bmatrix}$ ✓

· CSV

· properties ✓] DB

→ How to read the data from Excel sheet?

→ Libs — Apache POI (Download) (.Zip) Extract

→ Associate the Apache POI jars in project

(Right click on project → Build path →
config · Build path →
Add External JARs)

→ Create a pkg with name — 'test Date' → .xlsx → File

username   password
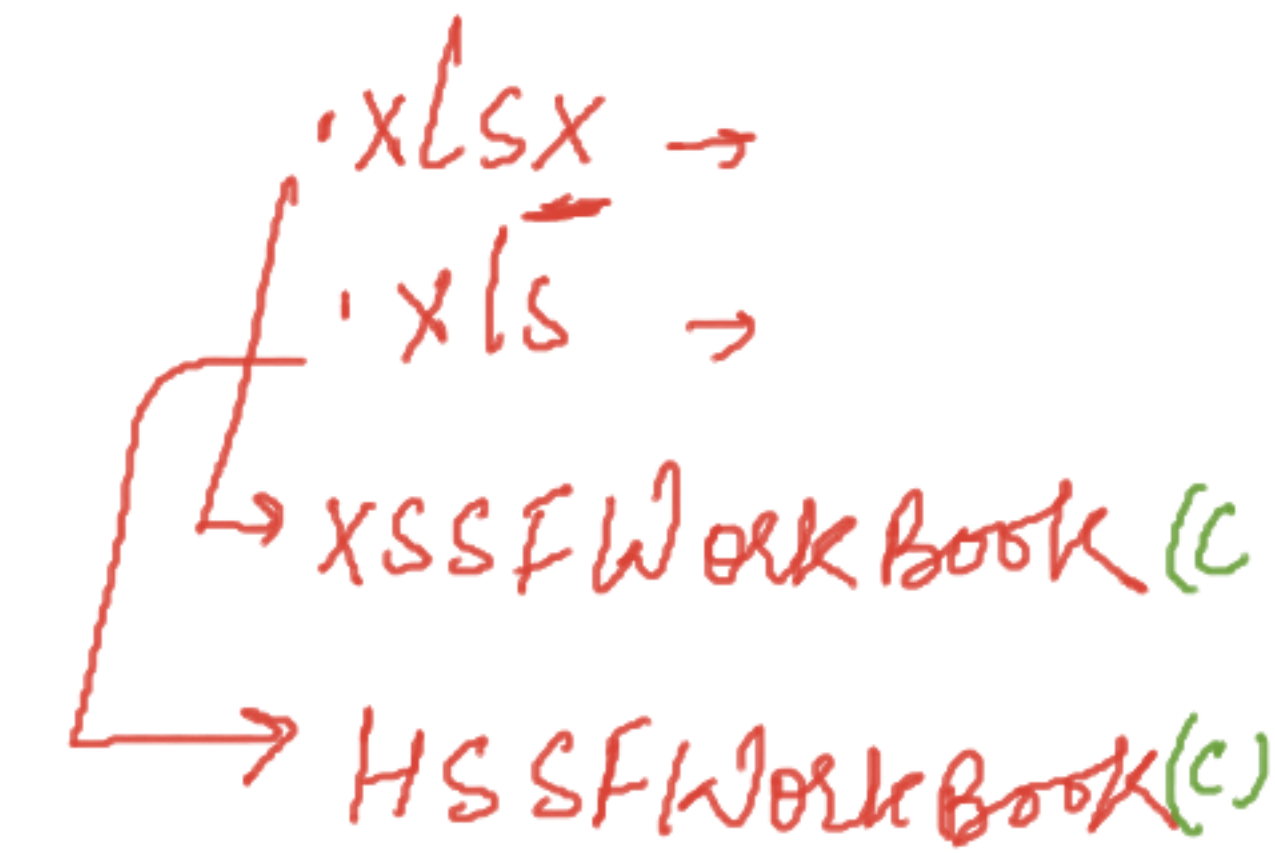admin   admin123
admin123   admin
Admin   admin123

→ Create a Class → XLsReader.java
                   _____
                        ↓
                        ①

Rows
 ↓

Colo →
         0
0

Sheet1 | 2 | 3

Work Book

Steps :- (1) Get the WorkBook path.

(2) Pass the wBook path into the Class constructor.

(3) Create an object of XSSFWorBook Class and pass the path of excel WB in a constructor of XSSFWork Book

.xlsx →
.xls →

└→ XSSFWorkBook (C

→ HSSFWorkBook (C)

Interfaces

Work Book ⌐
Row
Sheet
Cell ⌐

(4) Get the Sheet → (login)

(5) Create a method to Count Rows:.

(6) Cols Count method

@Data provider :- _

[ ] [ ]

TC ⑤

∇ V
V I
I V
VB I I
I
_

m( ) {

}

@DataProvider
read Data ( ) {
    _[ ][ ]

[ ][ ]

Rows   Cols

0
1
2

3 × 2
temp - arr]

{
0
1
2
3

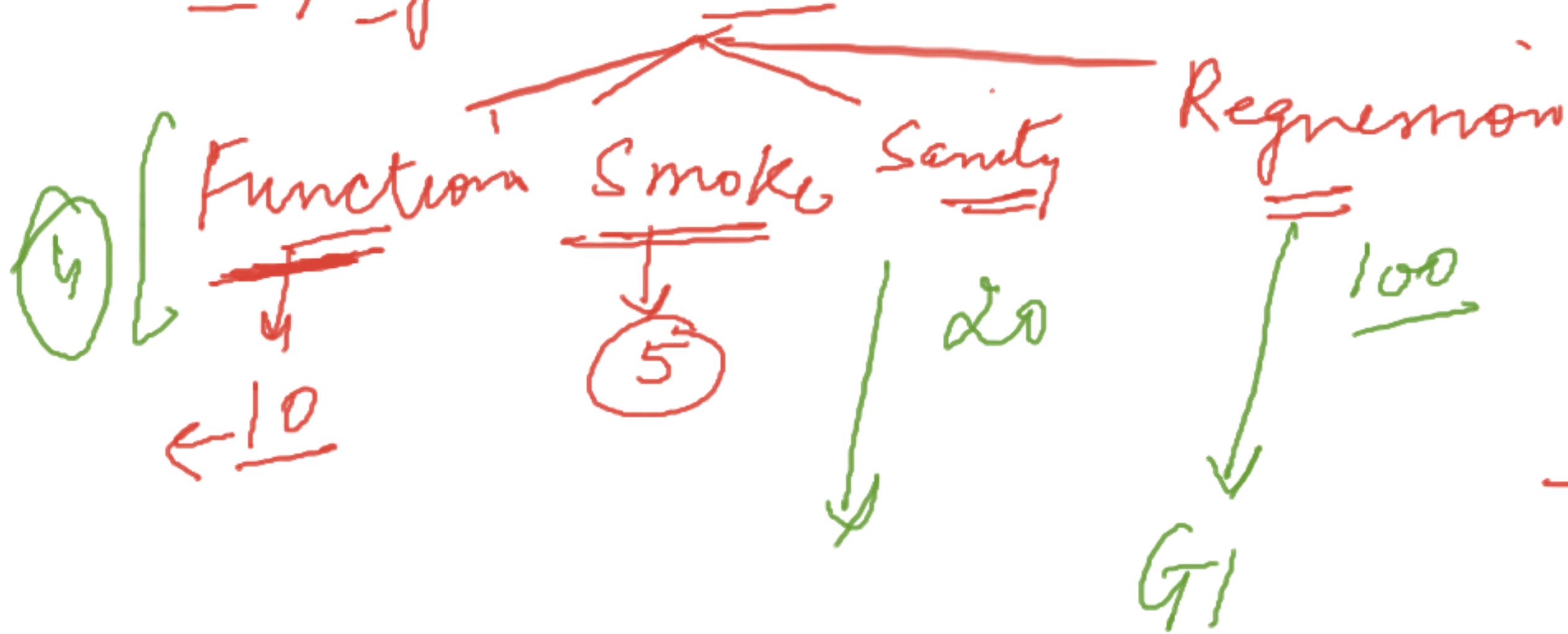| username	Password
—	—
—	—
—	—

4 × 2

@Test (dataprovider = read Data)

public void login

(String username,
      String password) {

}

Grouping :- 200 TCs → Automate

4

Function ← 10

Smoke (5)

Sanity 20

Regression 100

G1

testng.xml

.java
TestNG class

IoTCs $\rightarrow$ VDG1 — [G2 − G3] $\rightarrow$ Run

G1 G2 G3

VDG2 [G1 − G3]

Include
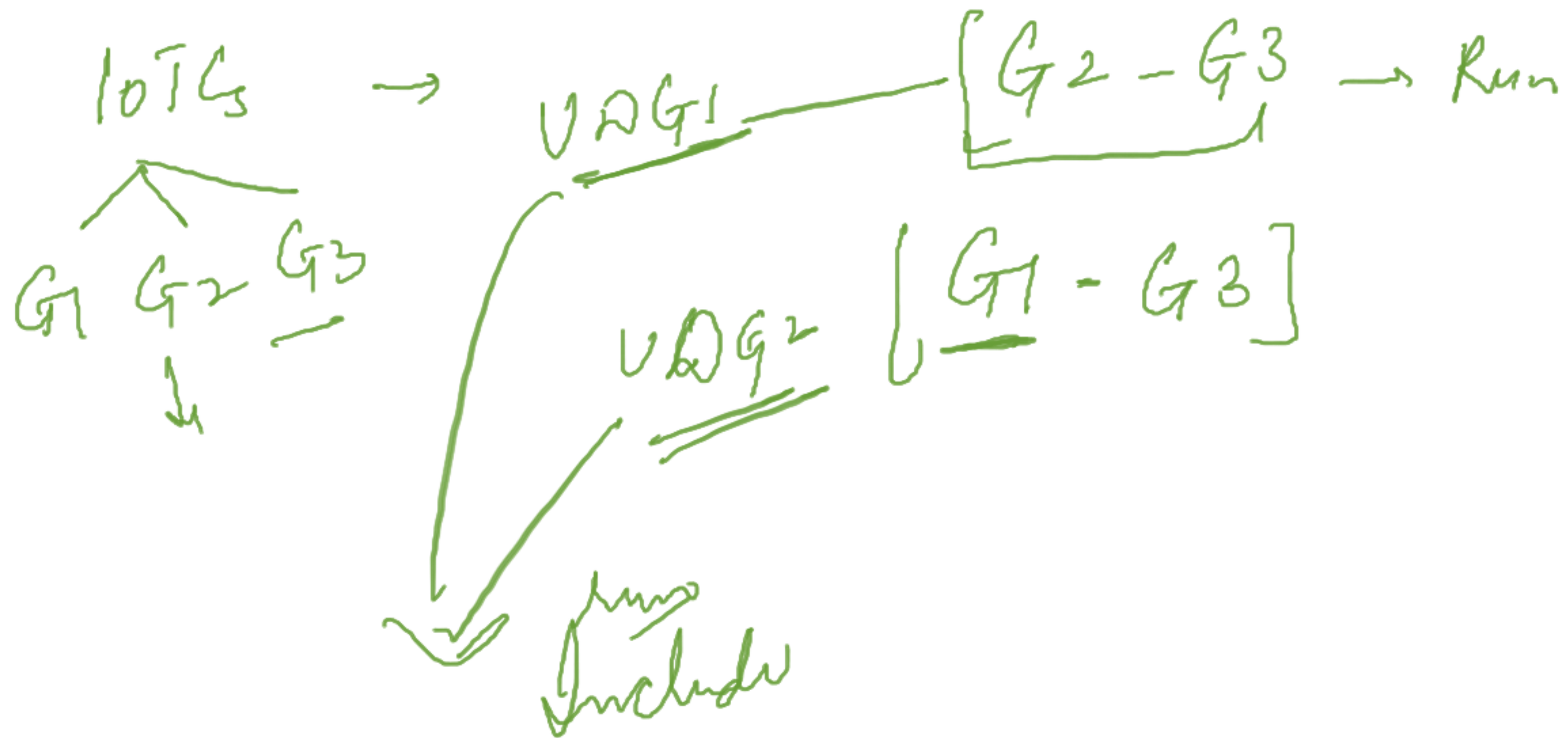
1. Selenium JARS ✓

2. Drivers → .exe → chrome, gecko ✓

3. ApachePOI ✓

4. TestNG _lib → plugin (from Eclipse install) ✓

5. MAVEN Tool → lib ⟩→ Sel JARs → versions
                              TestNG – "

6. Jenkins

7. git / github -Account

8. Natural Plugin