23. Data Driven Testing

- <u>WHEN:</u> Whenever a functionality or a module in an app requires testing with multiple sets of data(Parametrization), Multiple inputs then we need to perform data driven testing and automation.
- These scenarios are one of the things That must be automated.
- <u>HOW:</u> Test data is separated from code and stored into external sources: Cucumber Examples table, Excel files, CSV files, Database.
- <u>BENEFIT</u>: More organized, Data centralized, Collaboration on test data it can come from BA, MTs etc

24. How can we create data driven framework using TestNG?

• By using @DataProvider annotation, we can create a Data Driven Framework

```
@DataProvider(name="getData") Public Object[][] getData(){ Object [][] data = new Object[2][2];
Data[0][0] = "firstUid"; Data[0][1] = "FirstPWD";
Data[1][0] = "SecondUid";
Data[1][1] = "SecondPWD"; Return data; }
```

25. How to create Group of Groups in TestNG?

- These groups are called metagroups.
- Example: you might want to define a group all that includes smokeTest and FunctionalTest. Let's modify our testing.xml file:

26. How to run test cases in parallel using TestNG?

- We can use "parallel" attribute in testng.xml to accomplish parallel test execution in TestNG
- The parallel attribute of suite tag can accept four values:
 - \circ Classes \rightarrow All the test cases inside a java class will run parallel
 - Methods → All the methods with @Test annotation will execute parallel
 - o Instances → Test cases in same instance will execute parallel but two method of two different instances will run in different thread. <suite name="softwaretestingmaterial" parallel="methods">

27. How to ignore a test case in testNG?

- To ignore the test case, we use the parameter enabled = false to the
- @Test annotation @Test(enabled=false)

28. How to exclude a particular test method from a test case execution?

• By adding the exclude tag in the testing.xml