# RAJAT VERMA

**SOFTWARE TESTING** 

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TUTORIAL | TESTING FRAME WORK

TESTNG (1)- WHAT|WHY|HOW?

|TestN(





#### What is TestNG?

- 1. TestNG is an open-source
  - a. Testing framework
    - i. NG means Next Generation
- 2. It is inspired by JUnit and NUnit
  - a. JUnit | TestNG -



b. NUnit - 🕞



- c. PyTest 🔑
- 3. It is designed to simplify all testing requirements





# Why use TestNG?

- Flexible test configuration using Annotations
- 2. Control flow of test cases execution
  - a. Grouping (Regression/Smoke/Sanity/BVT)
  - b. Prioritizing (High/Medium/Low)
- 3. It supports the Parallel execution of test cases.
- 4. Data-driven testing
  - a. Parameters pass from the testng.xml file





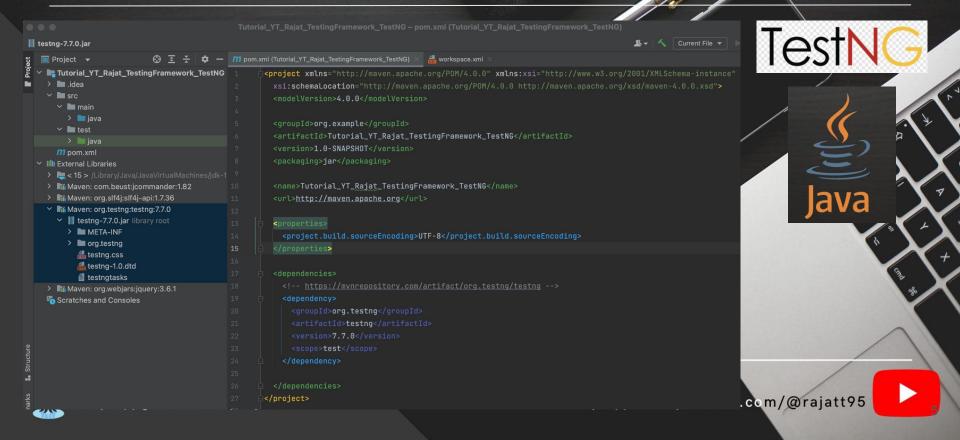


# Why use TestNG?

- 1. Data Provider
  - a. Execute the same test case with multiple data sets
    - i. Example Login with valid/invalid credentials
    - ii. Test Data .xlsx, .csv, .json, .xml
- 2. Re-run the failed test cases only
- 3. Report generation
  - a. Test cases details (PASS/FAIL/SKIP)



# How to add TestNG dependency?



#### **Create Test case**

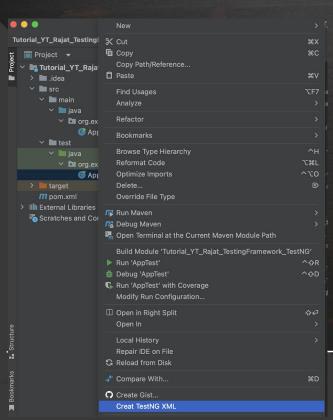
```
package org.example;
      import org.testng.Assert;
      import org.testng.annotations.Test;
       public class AppTest {
           public void test_sample(){
12 😘
               String actual = "https://www.youtube.com/@rajatt95";
               String expected = "https://www.youtube.com/@rajatt95";
               Assert.assertEquals(actual, expected, message: "Assertion for Strings exact match");
```





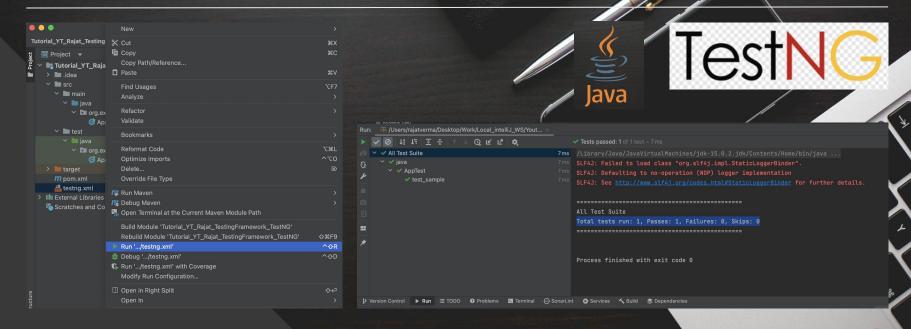


#### Create a testng.xml file





## **Execute test case using testng.xml file**



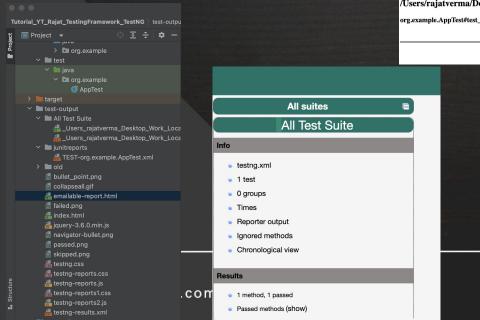




# Reports generated by TestNG



- 1. Emailable-report.html
- 2. Index.html





https://www.youtube.com/@rajatt95

# **Upcoming Sessions .....**

- 1. Multiple ways of test execution
- 2. Test Annotation attributes
- 3. Parameterization
- 4. Data Providers
- 5. Listeners
- 6. Re-run failed tests
- 7. Assertions Soft/Hard
- 8. Parallel execution Test cases
- 9. ......







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