RAJAT VERMA

SOFTWARE TESTING





TUTORIAL | BUILD AUTOMATION TOOL

MAVEN
(1)- WHAT|WHY|HOW?





What is Maven?

- 1. Maven is
 - a. Open-source build tool
 - i. Developed by the Apache Group
 - 1. To build, publish, and deploy projects
 - b. One word
 - i. Build Automation Tool
 - ii. Build and Dependency Management Tool
 - c. Maven Official Doc



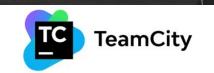


Why to use Maven? - Build Automation Tool



- 1. Simplifies the process of project creation and building
- 2. Execute test cases in CI/CD environment















Why to use Maven? - Dependency Management-

- 1. It helps to download dependencies
 - a. Libraries or JAR files
 - i. There may be different versions
 - 1. The tool helps get the right JAR files for

each project

- 2. Maven Central repository
 - a. https://mvnrepository.com/





Home » org.seleniumhg.selenium » selenium-java » 4.8.1

Selenium Java » 4.8.1



https://github.com/rajatt95

Maven Gradle Gradle (Short) Gradle (Kotlin) SBT ky Grape Leiningen Buildr

<!-- https://mvnrepository.com/artifact/org.seleniumhq.selenium/selenium-java -->

<dependency>

<groupId>org.seleniumhq.selenium</groupId>

<artifactId>selenium-java</artifactId>

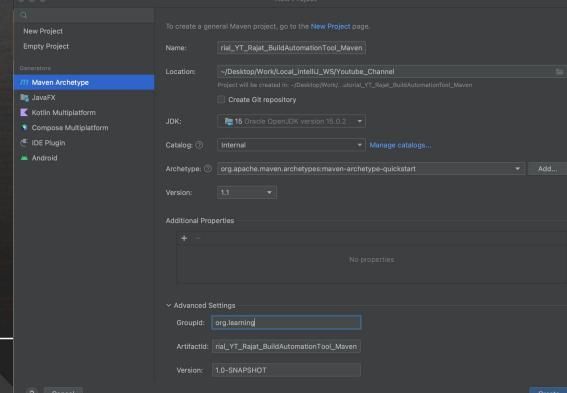
<version>4.8.1</e>

Selenium provides support for the automation of web browsers. It provides extensions to emulate user interaction with

browsers, a distribution server for scaling browser allocation, and the infrastructure for implementations of the W3C

How to use Maven in Test Automation?

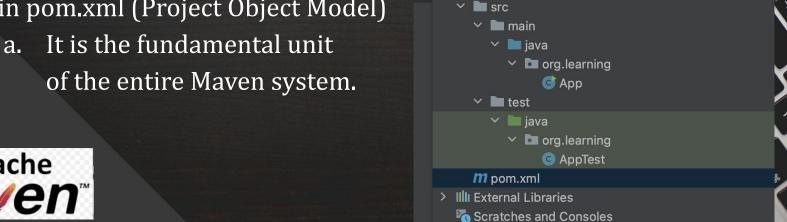
- 1. Create Maven project
 - a. Maven will create the project structure





How to use Maven in Test Automation?

- Maven project structure and contents are declared in pom.xml (Project Object Model)



Project

idea .idea

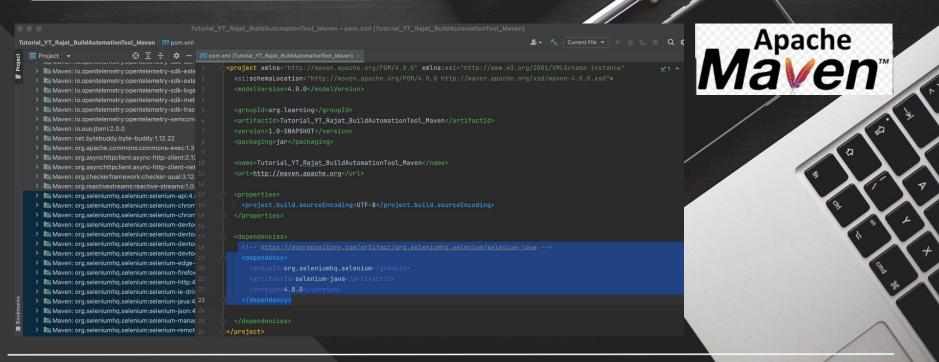




Tutorial_YT_Rajat_BuildAutomationTool_Maven > m pom.xml

Tutorial_YT_Rajat_BuildAutomationTool_Maven

How to use Maven in Test Automation?



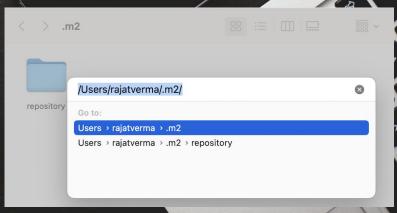




Maven Local Repository

- 1. Dependencies are downloaded in
 - a. WIN: C:\Users\<User_Name>\.m2
 - b. Linux: /home/<User_Name>/.m2
 - c. Mac: /Users/<user_name>/.m2







Upcoming Sessions

- 1. Create a Maven Project
 - a. Maven Project Folder Structure
 - b. pom.xml file
- 2. Build Life Cycle
- 3. Plugins | Profiles
- 4. Maven commands
 - a. Execute tests









RAJAT VERMA

SUBSCRIBE

SOFTWARE TEST ENGINEER



Gmail: rajatvermaa95@gmail.com



Github Profile: https://github.com/rajatt95



Github Page: https://rajatt95.github.jo



LinkedIn: https://www.linkedin.com/in/rajatt95



Topmate: https://topmate.io/rajatt95



Telegram: https://t.me/rajatt95



Instagram: https://www.instagram.com/rajattvermaa95



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