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Ques-What is Maven and Why to use in Selenium? Ans- Maven is a build automation tool used primarily for Java projects. The word maven means "accumulator of knowledge" . Maven addresses two aspects of building software: First, it describes how software is built. Second, it describes its dependencies. Setting up the Maven Project in Eclipse

Precondition- Maven should be installed in Eclipse -Install Maven Step1- Open Eclipse and Click on New >Project June 4, 2022March 11, 2022 by G C Reddy Selenium integration with other software\_ Java for Selenium, TestNG for Selenium, Maven Integration with Selenium, and Cucumber for Selenium. Selenium integration with other software We have a Suite of Selenium Tools or Components for Automated Functional Testing, they are, Selenium IDE, Selenium RC, Selenium WebDriver, Selenium Grid. In this Selenium Tool Suite, Selenium IDE is ... 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Read more Categories Java, Selenium, SOFTWARE TESTING Tags Java Programming for Selenium, Jenkins integration with Selenium, Maven Integration with Selenium, Selenium Automation Framework, Selenium Class Notes Download, Selenium fundamentals, Selenium Live Project, Selenium Online Training, Selenium Online Training Videos, Selenium Tutorials for Beginners, TestNG Testing Framework for Selenium August 1, 2018August 1, 2018 by G C ReddyMaven Integration with Selenium 1) What is Maven? > Apache Maven is a software project management and comprehension tool. Based on the concept of a project object model (POM), Maven can manage a project's build, reporting and documentation from a central piece of information. > Maven is a simple build automation tool which is basically ... Read more Categories Java, Selenium, SOFTWARE TESTING Tags Apache Maven Repository, Introduction to Maven, Java Language Elements, Jenkins integration with Selenium, Maven Integration with Selenium, Maven Project Object Model, Maven Tutorial for Beginners, Maven vs. Ant for Build Automation, Selenium Automation Framework, Selenium Test Environment Setup, Selenium Training Video, TestNG framework for selenium 3 Comments Maven is the latest build testing tool. It has several new features as compare to Ant, like dependency, etc. Maven is a project build or project management tool. It is used to check the compilation issues between framework components whenever multiple test engineer integrates their files into the same framework. It always maintained the monitor, framework components, or build, and it provides build status modification, whenever modification happens in the framework. It provides 'build success' message if no compilation issues in the framework or else provide 'build failure' message. Maven has new features like dependency, which is used to download the dependency jar from the internet before the test execution. With the help of Maven, we can execute the test scripts in the command line without an eclipse. And it always provides the framework folder structure. For more information about Maven, refer to the below link: There are two software available in Maven: Maven Eclipse Plug-in Maven command line plug-in Maven Eclipse plug-in It is a default plug-in for the latest Eclipse versions like Mars, Luna, oxygen, which is used to create a Maven project through Eclipse. Installing Maven plug-in for Eclipse and use it with Selenium TestNG Most of the time, Maven plug-in is automatically installed in the Eclipse, but if it is not present, we will go to the Eclipse Market Place and search for Maven and download the M2E integrated version from there. Steps to create Maven Project To create a Maven project, follow the below steps: Go to the File -> New -> Project Then, expand the Maven folder and select the Maven Project options, and click on the Next Again click on the Next button for the further process. Click on the Next button without doing anything. After click on the Next button, we will provide the Group ID and Artifact ID in our case, and we will give the Group id as MavenProject and Artifact ID as MavenProject, and click on the Finish button as we can see in the below screenshot: Once we are done with creating the Maven project, our Maven folder structure will look like this: Maven command line plug-in It is used to execute the Selenium test script in the command prompt without an Eclipse, and this software should be installed explicitly. Installation steps for Maven command line Plug-in To install the Maven command line plug-in, follow the below steps: Note: Before we will start the installation process of Maven, we will make sure that Java is installed and the environment variable is also set. Step1: Download Apache Maven First, go to Google search for Maven download and click on the First link, as we can see in the below screenshot: Once we click on the link, it will navigate to the Maven community. And besides the Binary zip archive, click on the given link, as we can see in the below screenshot: Download the zip folder, and after that, unzip the folder and place it to the C drive, and copy the location of the folder. Step2: Add M2 Home in the System Variable Once we copy the location, we will go to the Environment Variables window and click on the New button on the System variable section, as we can see in the below image: After that, we will provide the Variable name and Variable value, and click on the OK Step3: Add %M2\_Home%\bin to the path Once we create the M2\_Home system variable, we will find the Path variable, and click on the Edit button, as we can see in the below screenshot: The Edit variable window will appear on the screen, then we will click on the New button and %M2\_Home%\bin value, and click on the OK Step4: Verify After setting up the environment variables, we will check whether the Maven is installed successfully or not. For this, we will open the command prompt and type the below command: mvn -version And we can see in the above screenshot the Apache Maven is successfully installed. Before we start writing a Maven code, we need to add the general dependencies like TestNG and Selenium in the pom.xml file. So for this, we will follow the below process: Automatically we get the Pom.xml file within the same project. To download the dependency jar for TestNG and Selenium, we should write a dependency code for all the tools in the Pom.xml file. To get the dependency code, go to the Google search and type "TestNG Maven dependency", and click on the given link. And copy the dependency code of TestNG and paste in the pom.xml file. In the scope section, change the value from test to compile and final dependency code will look like this: org.testng:testng:6.8:compile com.google.inject:guice:4.1.0:no\_aop org.seleniumhq.selenium:selenium-chrome-driver:2.5.0:com.google.guava:guava:22.0:com.google.ap-client:google-api-client-ppengine:1.23.0:com.google.guava:guava-jdk5:com.google.code.gson:gson:2.2.4 And, here the sample code: package testpackage; import java.util.concurrent.TimeUnit; import org.openqa.selenium.WebDriver; import org.openqa.selenium.chrome.ChromeDriver; import org.testng.annotations.AfterTest; import org.testng.annotations.BeforeTest; import org.testng.annotations.Test; public class MavenTest1 { public String baseUrl = " "; String driverPath = "C:/chromedriver\_win32/chromedriver.exe"; public WebDriver driver ; @Test public void test() { // set the system property for Chrome driver System.setProperty("webdriver.chrome.driver", driverPath); // Create driver object for CHROME browser driver = new ChromeDriver(driver); driver.manage().timeouts().implicitlyWait(20, TimeUnit.SECONDS); driver.manage().window().maximize(); driver.get(baseUrl); // get the current URL of the page String URL= driver.getCurrentUrl(); System.out.println(URL); //get the title of the page String title = driver.getTitle(); System.out.println(title); } @BeforeTest public void beforeTest() { System.out.println("before test"); } @AfterTest public void afterTest() { driver.quit(); System.out.println("after test"); } } We can run above code in multiple ways: Run through TestNG Run through Maven Run through Command Line Run through TestNG If we run the above code with the TestNG, we will follow the below process: Right-click on the java file, and select Run As -> 1 TestNG Test as we can see in the below image: After running the code successfully, it will give the below output: And it will launch the browser in the console window as we can see in the below screenshot: Run Through Maven To run the same code through Maven, follow the below steps: First, we need to convert the MavenTest1.java file into the TestNG File, for this follow the below process: Right-click on the java file and select TestNG and then select. Convert to TestNG options in the given list. Once we select the Convert to TestNG options, it will open the below window, and after that, we will click on the Finish And, the converted TestNG file will look like this: After that, we will run the testing.xml file, so for this, we need to add the Maven Plugins in the pom.xml files. So, we will add the three different plugins, which are as follows: Maven compiler plugin Maven surefire plugin Maven source plugin Note: The Maven compiler plugin is used to compile the source code of a Maven project. Maven test command will connect to the internet and download all the dependency jar into the .M2 folder local repository and then compile the entire selenium source code as we can see in the below image: The Maven surefire plugin is used when we have to run the unit tests of the application. The Maven source plugin is used to build the jars files that were having the java source files. After adding all the plugins, our pom.xml look like this: org.apache.maven.plugins:maven-compiler-plugin:3.1.1:6.1.6:org.apache.maven.plugins:maven-surefire-plugin:2.19.1 C:\Users\JTP\workspace\MavenProject\testing.xml org.apache.maven.plugins:maven-source-plugin:attach-sources:jar Save the pom.xml file and execute the code. For executing the above code, right-click on the MavenProject -> Run As -> Maven Test as we can see in the below image: When all the test cases are passed and Build successfully runs, it will give the below output: And it will launch the browser in the console window as we can see in the below screenshot: If we are using some remote machine with the help of Maven commands, then we need to go to the command prompt. For this, we will go to that particular directory of the Maven project, so for that right-click on the MavenProject and select the Properties options from the given pop-up menu. And, then copy the location of the MavenProject and paste in the command prompt to reach the correct location of the file. And, then type the below command in the command prompt: cd eclipse-workspace\MavenProject Once we are in the MavenProject, we will use some of the common commands of Maven, which are as follows: Maven commands Description mvn clean install This command is used to generate, compile, and execute the jars files. mvn test We will use this command when we have to execute the tests against the compiled source code with the help of an appropriate unit testing framework. mvn compile It is used to compile the source code of the Maven project. mvn package It will pack the executed code in a different format like Jar. Here, we will execute the mvn clean install And, this command will execute all the four life cycles of Maven, then execute the test case, and it will create the jar files. On successful execution, browser will be launched and build also got successful as we can see in the below screenshot: Example 2: In this example, we simply create two unit test cases where we will be adding and subtracting the two variables (p and q) and running the code through TestNG and Maven. Here the sample code: package testpackage; import org.testng.Assert; import org.testng.annotations.Test; public class demo1 { @Test public void sum() { System.out.println("Sum method"); int p=10; int q=20; Assert.assertEquals(30, p+q); } @Test public void sub() { System.out.println("Sub method"); int p=20; int q=10; Assert.assertEquals(10, p-q); } } To run the code with the help of TestNG, follow the below process: Right-click on the java file, and select Run As -> 1 TestNG Test as we can see in the below image: After running the code successfully, it will give the below output: Execute the code through Maven To run the same code with the help of Maven, follow the below steps: First, we need to convert the Demo1.java file into the TestNG File, for this Right-click on the java file and select TestNG and then select Convert to TestNG in the given pop-up-menu. And, we can also change the name of the file according to our needs and click on the Finish After that, we will provide the path of the xml file to the pom.xml file through the plugins like we did it in the above example : org.apache.maven.plugins:maven-surefire-plugin:2.19.1 C:\Users\JTP\workspace\MavenProject\testing1.xml After adding the Maven-surefire-plugin in the pom.xml file, we will save the file by pressing ctrl+s. And then, right-click on the MavenProject -> Run As -> Maven Test as we can see in the below image: When all the test cases are passed and Build successfully runs, it will give the below output: Next TopicSelenium Waits



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