**Set up a basic Selenium project with Maven**

How to worked selenium with maven:

Using Maven with Selenium is a common practice in Java-based Selenium projects. Maven is a build automation and project management tool that simplifies the process of managing dependencies, building projects, and executing tests.

Prerequisites:

Java Installed:

Ensure that Java is installed on your machine. You can follow the steps mentioned earlier to.

Maven Installed:

Install Maven by following the official Maven installation guide.

Create a Maven Project:

Open a Terminal or Command Prompt:

Open a terminal or command prompt in the directory where you want to create your Selenium project.

Create a Maven Project:

Run the following Maven command to create a new Maven project

mvn archetype:generate -DgroupId=com.example -DartifactId=selenium-demo -DarchetypeArtifactId=maven-archetype-quickstart -DinteractiveMode=false

This command uses the Maven archetype maven-archetype-quickstart to generate a simple project structure.

Navigate to the Project Directory:

Change into the newly created project directory:

cd selenium-demo

Update the pom.xml File:

Open pom.xml in a Text Editor:

Open the pom.xml file located in the project directory using a text editor.

dd Selenium Dependencies:

Add the Selenium WebDriver and JUnit dependencies to the <dependencies> section of the pom.xml file:

<dependencies>

<!-- Selenium WebDriver -->

<dependency>

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

<artifactId>selenium-java</artifactId>

<version>3.141.59</version> <!-- Use the latest version -->

</dependency>

<!-- JUnit 5 -->

<dependency>

<groupId>org.junit.jupiter</groupId>

<artifactId>junit-jupiter-api</artifactId>

<version>5.8.2</version> <!-- Use the latest version -->

<scope>test</scope>

</dependency>

</dependencies>

Save the pom.xml file

Create a Java Class:

In the src/test/java directory, create a Java class for your Selenium test (e.g., MySeleniumTest.java).

Write Selenium Test Code:

Write a simple Selenium test using Java. Here's an example using JUnit 5:

import org.junit.jupiter.api.Test;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.chrome.ChromeDriver;

import static org.junit.jupiter.api.Assertions.assertEquals;

public class MySeleniumTest {

@Test

public void testSelenium() {

// Set the path to the ChromeDriver executable

System.setProperty("webdriver.chrome.driver", "path/to/chromedriver.exe");