STEPs CREATE A JAVA SELENIUM AUTOMATION FRAMEWORK FOR BEGINER

# Install jdk

# Eclips

# java webdriver (currently, version 3.0.1 have issue when run with firefox driver, must be supported by geckodriver.exe. Currently, I'm using version 2.45.0s)

# Githup (or tortoise)

# install maven for eclips : Set up Java\_HOME, M2\_HOME, MAVEN\_HOME

https://www.youtube.com/watch?v=zPg5aPjh-sA&spfreload=10

Maven Eclipse plugin installation step by step:

Open Eclipse IDE

Click Help -> Install New Software...

Click Add button at top right corner

At pop up: fill up Name as "M2Eclipse" and Location as "http://download.eclipse.org/technology/m2e/releases" or http://download.eclipse.org/technology/m2e/milestones/1.0

Now click OK

After that installation would be started.

Another way to install Maven plug-in for Eclipse:

Open Eclipse

Go to Help -> Eclipse Marketplace

Search by Maven

Click "Install" button at "Maven Integration for Eclipse" section

Follow the instruction step by step

After successful installation do the followings in Eclipse:

Go to Window --> Preferences

Observe, Maven is enlisted at left panel

Finally,

Click on an existing project

Select Configure -> Convert to Maven Project

# Create a project

## configured Git for project-( https://www.youtube.com/watch?v=r5C6yXNaSGo)

Help> Install new software

Paste: http://download.eclipse.org/egit/updates in work with textbox

Click next button to install EGit

Restar Eclipse

Right click on the project Team>ShareProject

On configure Git Repository, click on Create button. Defidn a parent directory/name and click on Finish button

Click Finish button

wINdow>ShowView>Git>Git Repository>OK

wINdow>ShowView>Git>History

Window>PErspective>User Perspective> Action Set Availability tab> tick on Git check box and click Ok button

# Install NUnit to run a java test case

// Refer to know create a testNG Maven Project https://examples.javacodegeeks.com/enterprise-java/testng/testng-maven-project-example/

//Add testNG for project

// To view testng.xlm. right click on the package contains test cases> TestNG>Convert to Test NG

// To view output folder, you should add plugin "maven-surefire-plugin"in pom.xlm

/\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*/

Understand Maven objectives include:

Providing a uniform build system

Providing quality project information

Providing guidelines for best practices development

Allowing transparent migration to new features

This post includes:

Building a Maven project

POM file

- build process

- dependencies

Installing Jars

Testing POM file

Settings.xml file

Github setup

Git repository

Jenkins configuration

Setting up Jenkins as a windows service

Creating a job in Jenkins

/\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*/

The (optional) TestNG M2E Integration plug-in was introduced in 6.9.10. It allows you to run your tests with System Properties or JVM settings, which are defined by maven-surefire-plugin or maven-failsafe-plugin of pom.xml, to be appended to the runtime TestNG process. Once this plugin installed, you can see a dedicated preference page (workspace level settings):

/\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*/

# Issue while implementation

|  |  |
| --- | --- |
| Issue | Resolution |
|  |  |
|  |  |
|  |  |

# Research

Research new technology add into project

|  |  |  |
| --- | --- | --- |
| No | Research title | Status |
| 1 | Code for Page Object Model Using Selenium Webdriver using Page Factory |  |
| 2 | How To Run A Test On Multiple Browsers, In Paralle | **Done** |
| 3 | Use Data Driven In Framework |  |
| 4 | Automation on Appmium (On Android) |  |
| 5 | http://maven.apache.org/surefire/maven-surefire-plugin/examples/testng.html |  |
| 6 | TestNG Executing Parallel Tests Example: http://howtodoinjava.com/testng/testng-executing-parallel-tests/ |  |