Form Automation

Login A
Form Automation

PROBLEM STATEMENT

Need to automate the following activities using Selenium + Java.

Key Activities to implement:

1. Navigate to https://demo.automationtesting.in/Register.html.
2. Retrieve the title of the page. The title of the page should be "Register".
3. Click SwitchTo à Alert Link.
4. Validate if control is navigated to new page
5. Click on button to display the alert box
6. Validate if alert popup is shown.
7. Close the popup.
8. Click on Register menu option to navigate to Register page.
9. Fill the form with data provided in json file (expected_data.json).
10. Click on the country dropdown.(Second One)
11. Select each country option one by one.
12. Validate if each country option is selectable from the dropdown.
13. Check and uncheck each hobby checkbox.
14. Validate that the checkboxes are responding correctly to user interaction, allowing selection and deselection.
15. Select each radio button option for gender.
16. Validate that only one radio button option should be selectable at a time.
17. Enter passwords in the "Password" and "Confirm Password" fields according to different scenarios (matching, non-matching, pattern validation).
18. Select different dates from the Date Of Birth fields.
19. Validate that dates are selectable, and the selected values should be captured accurately.
20. Click on the image upload button.
21. Choose an image file from the file system.
22. Validate that the selected image should be displayed on the page after upload.
23. Leave the phone number empty.
24. Attempt to submit the form.
25. Verify that error messages for incomplete field displayed as appropriate.

Template Code Structure: Packages and files you will be required to work upon. Please ignore other files and packages

Package	Class/File	Description
pages	DemoRegisterPages.java	1. All core activities (mentioned in list above) to be performed here. 2. The comments associated with each templated method here describe the expectation. 3. You can define locators and xpath here.

		4. Declare any variable/object you need to share data/status between different methods. 5. Do not modify the signature of methods declared here. 6. You can create additional supportive common methods in CommonEvents class.
resources	Config.json	URL to navigate to. Already URL is defined here
	expected_data.json	Contains data to fill in form
coreUtilities.utils	CommonEvents.java	1. Contains all common activities. 2. Certain templated common method declared here. 3. You implement them as per your need. 4. You can add any additional method for common activity here
	FileOperations.java	1. Contains methods to read from json file. 2. Method is in templated form. **3. You will be required to implement these methods as very first activity, because even URL to navigate to, is read using these methods.**

Expectations:

1) Learners should write automation script using Java and selenium to automate all the steps in the above question. In other words, automation script should perform all mentioned steps.
2) Learners should not use any tools to create the xpath. They should develop the xpath/cssselector on their own.

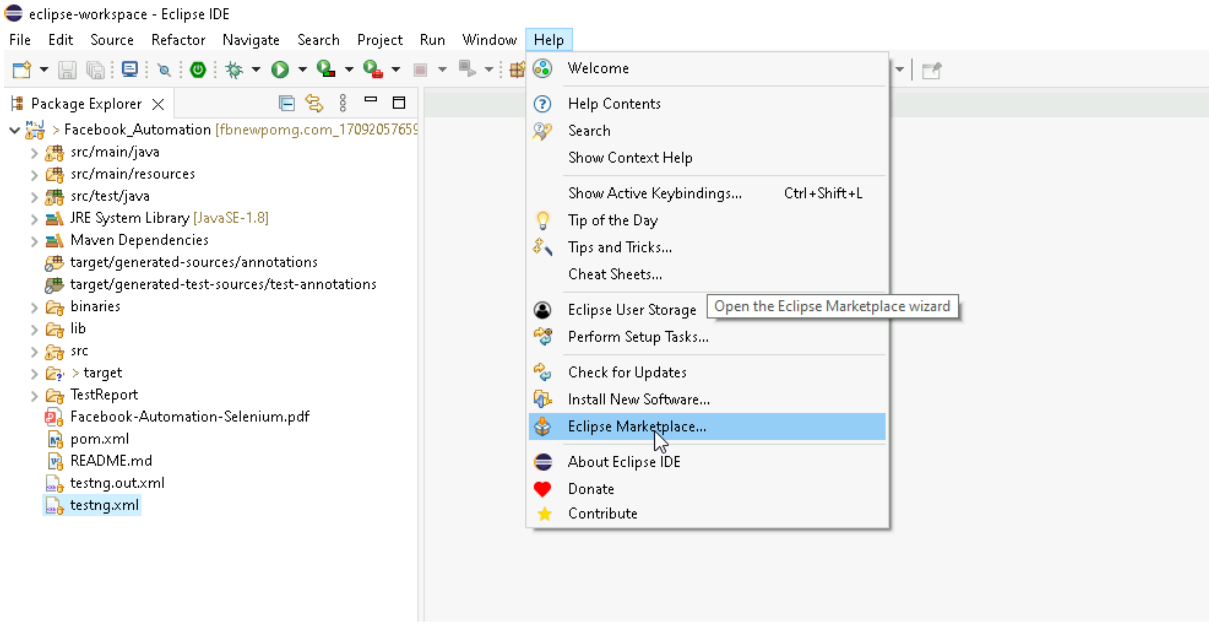
IMPLEMENTATION/FUNCTIONAL REQUIREMENT

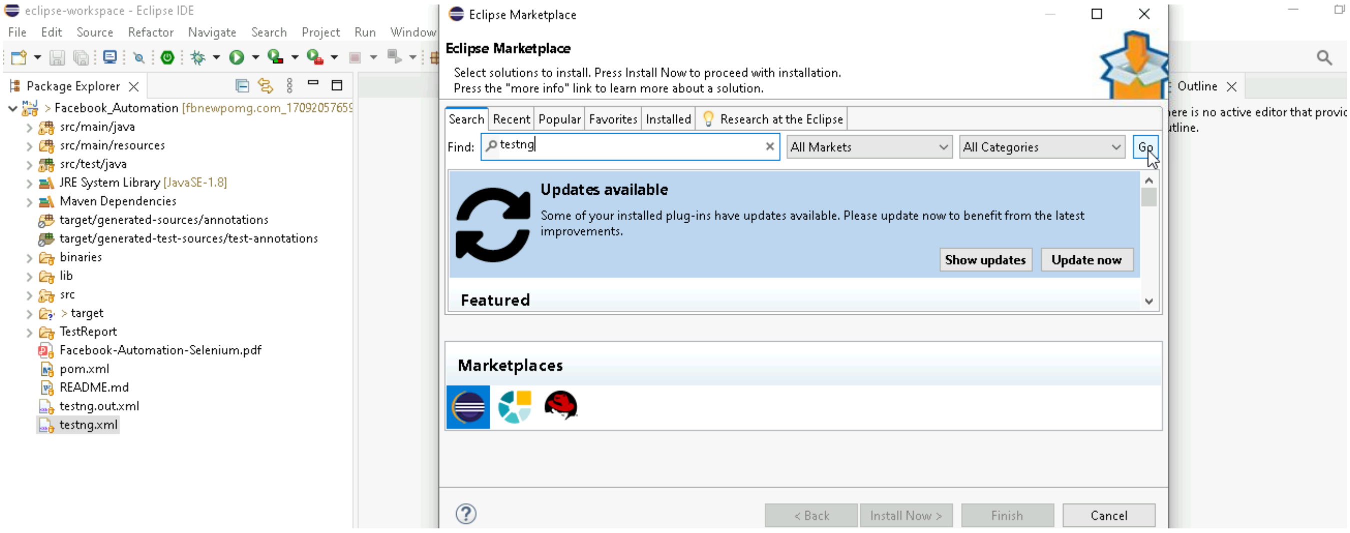
1.1 Code Quality/Optimizations

1. Associates should have written clean code that is readable.
2. Associates need to follow SOLID programming principles.

Execution Steps to Follow

1. **You are mandatory required to run test cases for applications before final submission. Without which project evaluation will not happen.**
2. **Following are the steps to enable test case execution:**
   a. **You will need to install TestNG from eclipse marketplace. Following are the steps to follow:**
   b. **Go to eclipse marketplace**




eclipse-workspace - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window
Package Explorer
Facebook_Automation [fbnewpomg.com_1709205765
src/main/java
src/main/resources
src/test/java
JRE System Library [JavaSE-1.8]
Maven Dependencies
target/generated-sources/annotations
target/generated-test-sources/test-annotations
binaries
lib
src
target
TestReport
Facebook-Automation-Selenium.pdf
pom.xml
README.md
testng.out.xml
testng.xml
Eclipse Marketplace
Search Recent Popular Favorites Installed Research at the Eclipse
All Markets
All Categories
Go
Show updates
Update now
Featured
Marketplaces
< Back
Install Now >
Finish
Cancel
Outline

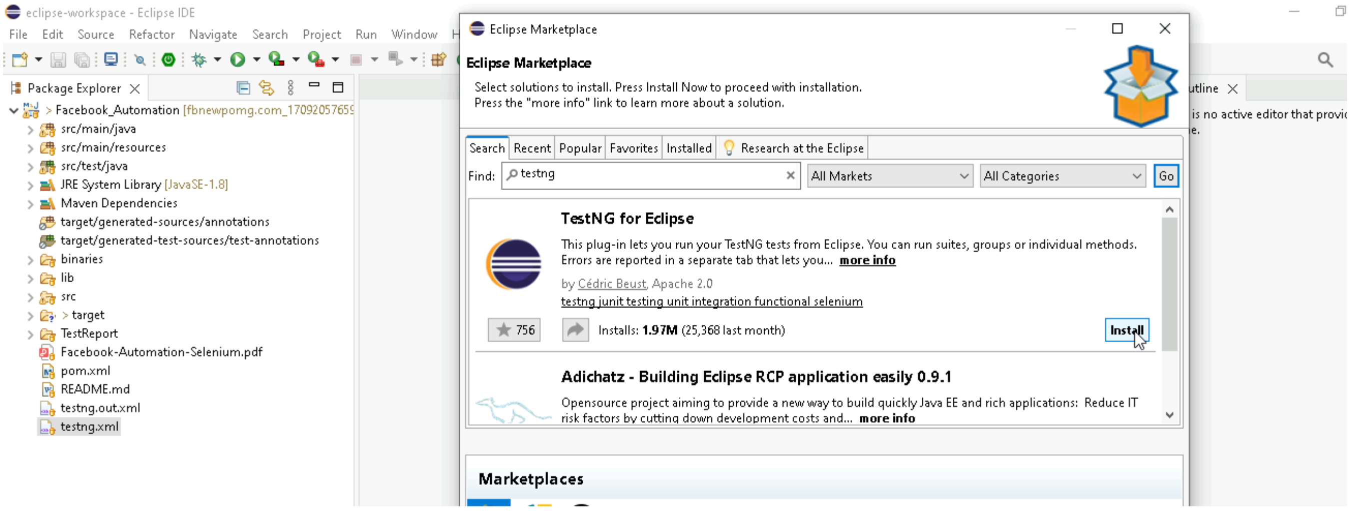
Eclipse Marketplace

Select solutions to install. Press Install Now to proceed with installation.
Press the "more info" link to learn more about a solution.

Find: testng

Updates available

Some of your installed plug-ins have updates available. Please update now to benefit from the latest improvements.


eclipse-workspace - Eclipse IDE
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src/main/java
src/main/resources
src/test/java
JRE System Library [JavaSE-1.8]
Maven Dependencies
target/generated-sources/annotations
target/generated-test-sources/test-annotations
binaries
lib
src
target
TestReport
Facebook-Automation-Selenium.pdf
pom.xml
README.md
testng.out.xml
testng.xml
Eclipse Marketplace
Search Recent Popular Favorites Installed Research at the Eclipse
All Markets
All Categories
Go
756
Install
Marketplaces
Outline

Eclipse Marketplace

Select solutions to install. Press Install Now to proceed with installation.
Press the "more info" link to learn more about a solution.

Find: testng

TestNG for Eclipse

This plug-in lets you run your TestNG tests from Eclipse. You can run suites, groups or individual methods. Errors are reported in a separate tab that lets you... more info

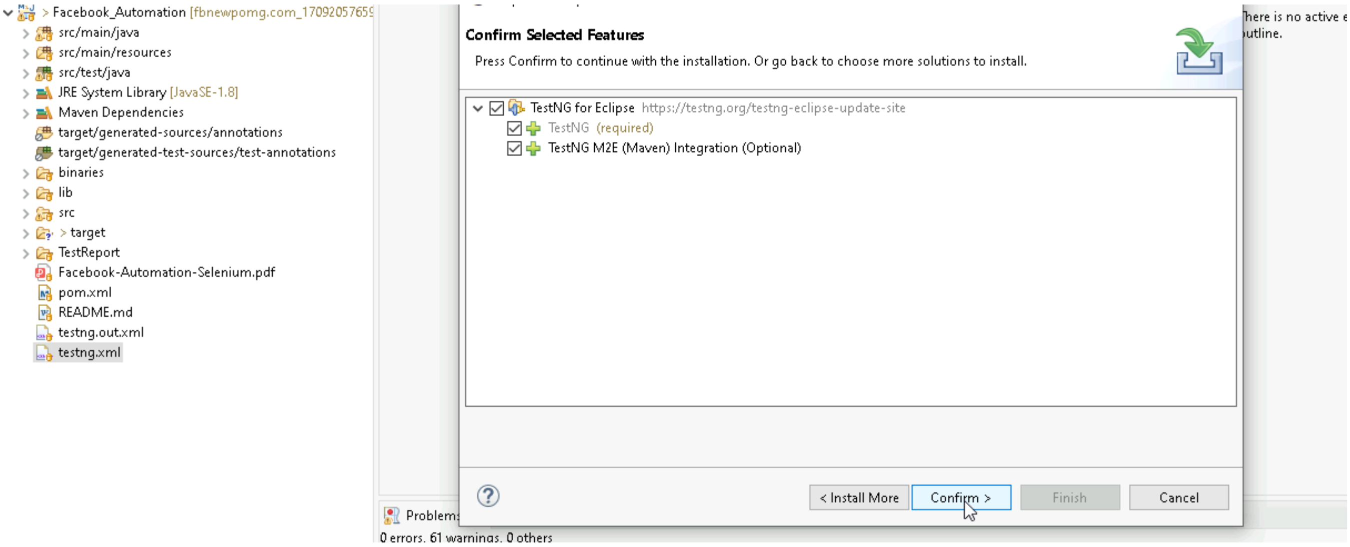
by Cédric Beust, Apache 2.0

testng junit testing unit integration functional selenium

Installs: 1.97M (25,368 last month)

Adichatz - Building Eclipse RCP application easily 0.9.1

Opensource project aiming to provide a new way to build quickly Java EE and rich applications: Reduce IT risk factors by cutting down development costs and... more info

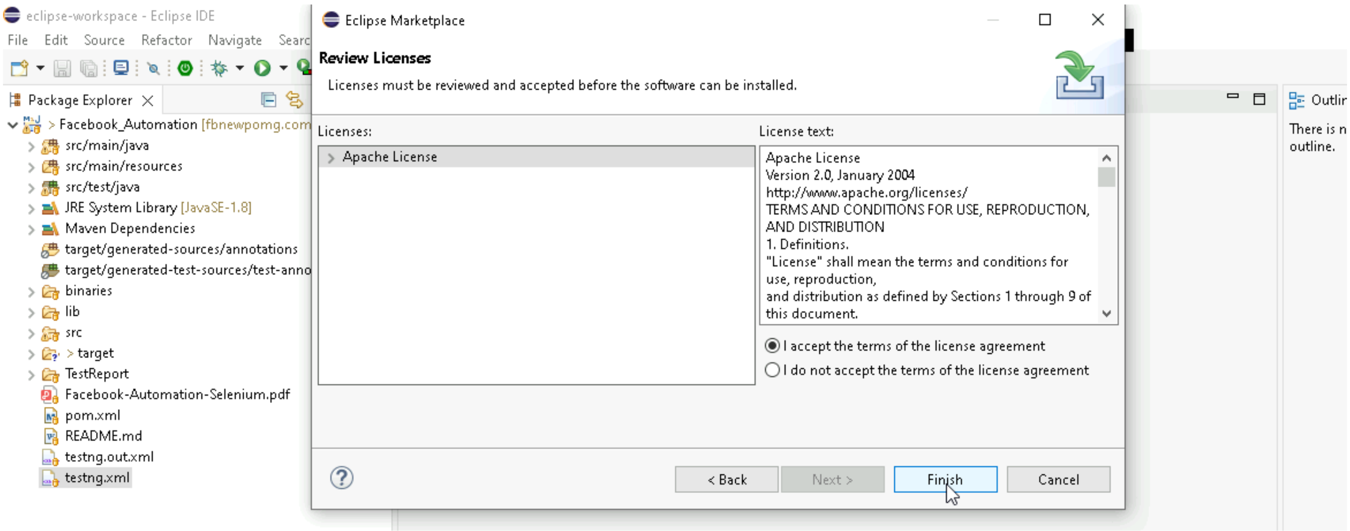


Confirm Selected Features

Press Confirm to continue with the installation. Or go back to choose more solutions to install.

☑ TestNG for Eclipse https://testng.org/testng-eclipse-update-site
☑ TestNG (required)
☑ TestNG M2E (Maven) Integration (Optional)

0 errors, 61 warnings, 0 others



Eclipse Marketplace

Review Licenses

Licenses must be reviewed and accepted before the software can be installed.

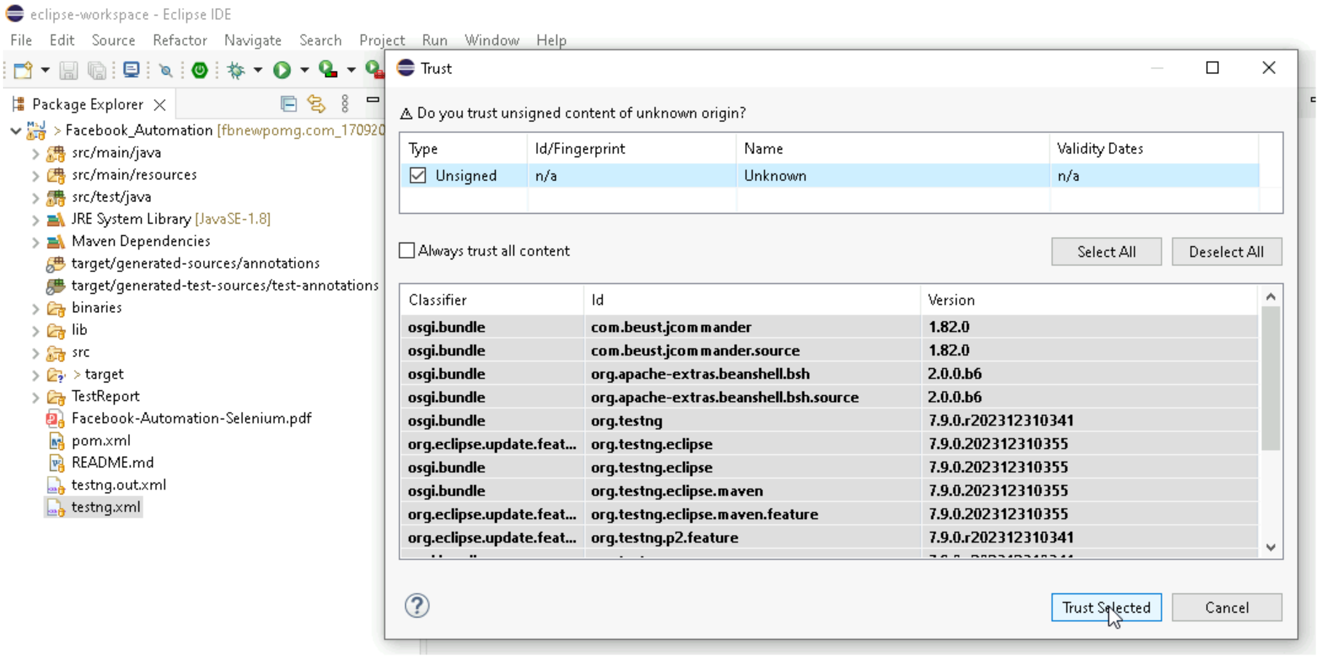
Licenses:

Apache License

License text:

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/
TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION
1. Definitions.
"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

● I accept the terms of the license agreement
○ I do not accept the terms of the license agreement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Package Explorer
> Facebook_Automation [fbnewpomg.com_170920
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src/main/resources
src/test/java
JRE System Library [JavaSE-1.8]
Maven Dependencies
target/generated-sources/annotations
target/generated-test-sources/test-annotations
binaries
lib
src
> target
TestReport
Facebook-Automation-Selenium.pdf
pom.xml
README.md
testng.out.xml
testng.xml

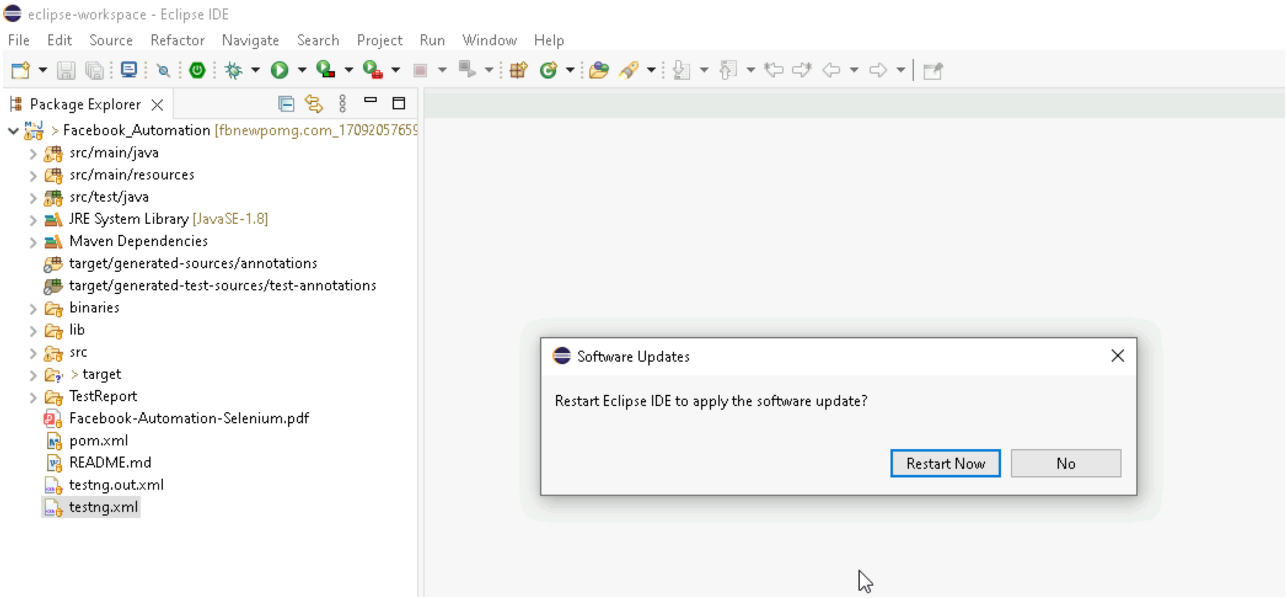
Trust

⚠ Do you trust unsigned content of unknown origin?

Type	Id/Fingerprint	Name	Validity Dates
☑ Unsigned	n/a	Unknown	n/a

□ Always trust all content

Classifier	Id	Version
osgi.bundle	com.beust.jcommander	1.82.0
osgi.bundle	com.beust.jcommander.source	1.82.0
osgi.bundle	org.apache-extras.beanshell.bsh	2.0.0.b6
osgi.bundle	org.apache-extras.beanshell.bsh.source	2.0.0.b6
osgi.bundle	org.testng	7.9.0.r202312310341
org.eclipse.update.feat...	org.testng.eclipse	7.9.0.202312310355
osgi.bundle	org.testng.eclipse	7.9.0.202312310355
osgi.bundle	org.testng.eclipse.maven	7.9.0.202312310355
org.eclipse.update.feat...	org.testng.eclipse.maven.feature	7.9.0.202312310355
org.eclipse.update.feat...	org.testng.p2.feature	7.9.0.r202312310341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src/main/java
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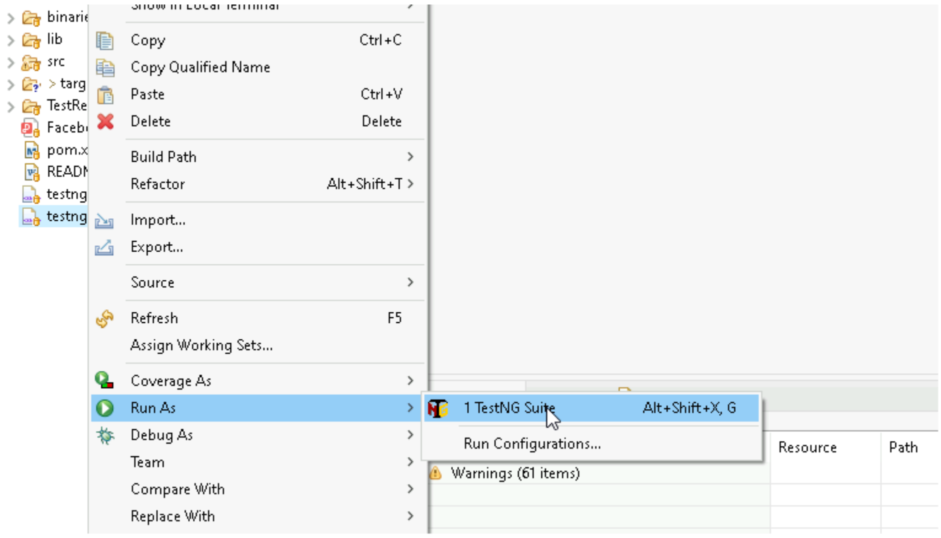
target/generated-test-sources/test-annotations
binaries
lib
src
> target
TestReport
Facebook-Automation-Selenium.pdf
pom.xml
README.md
testng.out.xml
testng.xml

Software Updates

Restart Eclipse IDE to apply the software update?

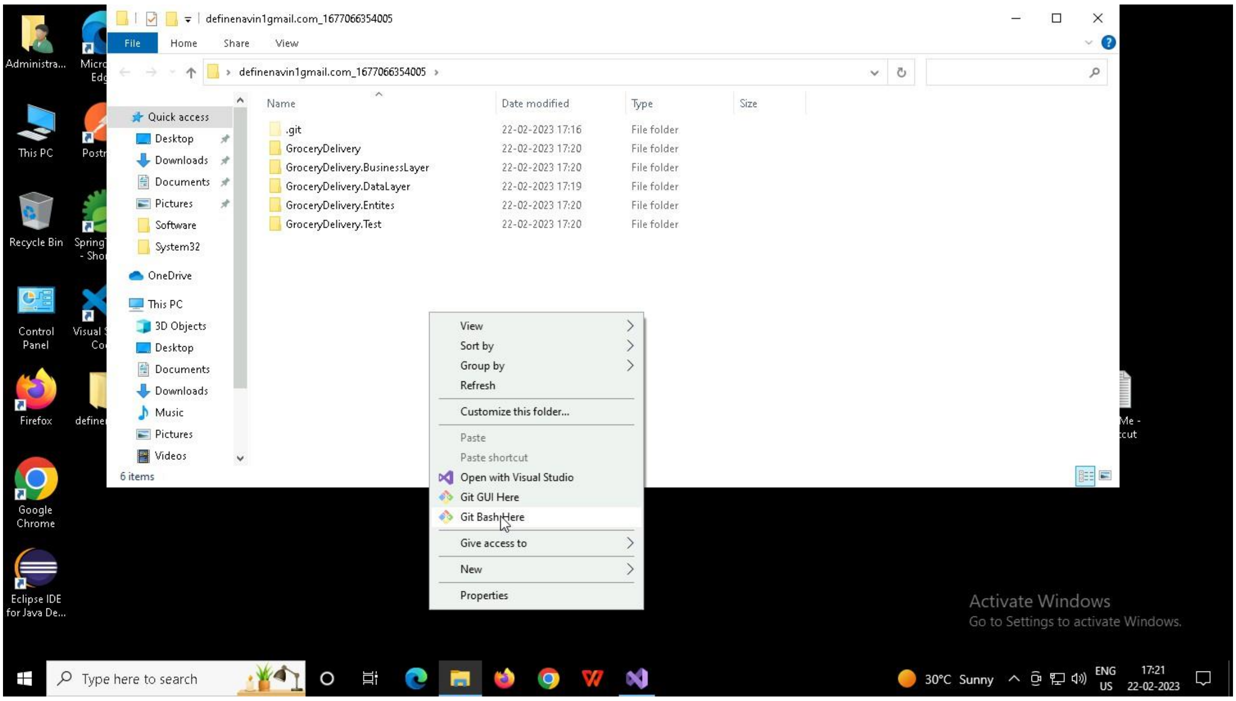
c. **All the above steps will help install TestNG plugin.**

d. **Post the installation and restart of Eclipse, you can launch test cases any time as follows: Right click on testng.xml and run TestNGSuite**



3. Before final submission, you are also required to push your code to GIT. Following are the steps to follow:

Right click in folder and open Git Bash



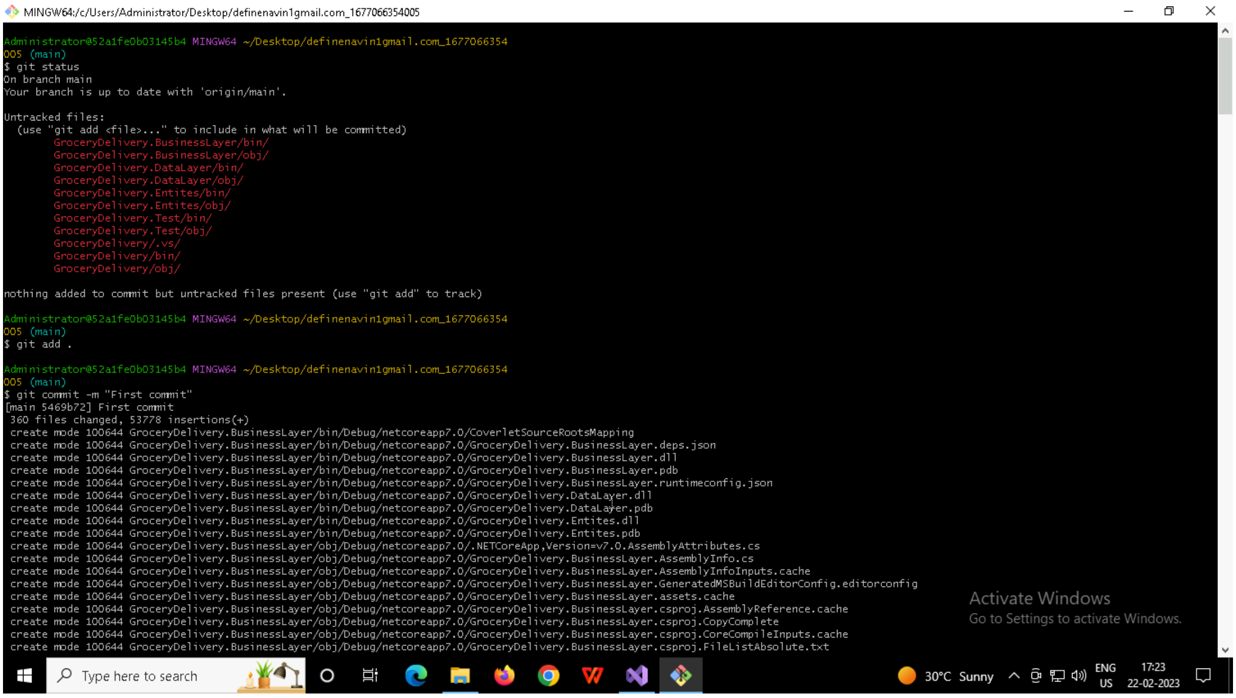
definenavin1gmail.com_1677066354005

Name	Date modified	Type	Size
.git	22-02-2023 17:16	File folder	
GroceryDelivery	22-02-2023 17:20	File folder	
GroceryDelivery.BusinessLayer	22-02-2023 17:20	File folder	
GroceryDelivery.DataLayer	22-02-2023 17:19	File folder	
GroceryDelivery.Entites	22-02-2023 17:20	File folder	
GroceryDelivery.Test	22-02-2023 17:20	File folder	

6 items

In Git bash terminal, run following commands

a. git status
b. git add .
c. git commit -m “First commit”
   (You can provide any message every time you commit)
d. git push


MINGW64:/c/Users/Administrator/Desktop/definenavin1gmail.com_1677066354005
Activate Windows
Go to Settings to activate Windows.
Type here to search
30°C Sunny
ENG
US
17:23
22-02-2023

```
Administrator@52a1fe0b03145b4 MINGW64 ~/Desktop/definenavin1gmail.com_1677066354
005 (main)
$ git status
On branch main
Your branch is up to date with 'origin/main'.

Untracked files:
  (use "git add <file>..." to include in what will be committed)
        GroceryDelivery.BusinessLayer/bin/
        GroceryDelivery.BusinessLayer/obj/
        GroceryDelivery.DataLayer/bin/
        GroceryDelivery.DataLayer/obj/
        GroceryDelivery.Entites/bin/
        GroceryDelivery.Entites/obj/
        GroceryDelivery.Test/bin/
        GroceryDelivery.Test/obj/
        GroceryDelivery/.vs/
        GroceryDelivery/bin/
        GroceryDelivery/obj/

nothing added to commit but untracked files present (use "git add" to track)

Administrator@52a1fe0b03145b4 MINGW64 ~/Desktop/definenavin1gmail.com_1677066354
005 (main)
$ git add .

Administrator@52a1fe0b03145b4 MINGW64 ~/Desktop/definenavin1gmail.com_1677066354
005 (main)
$ git commit -m "First commit"
[main 5469b72] First commit
 360 files changed, 53778 insertions(+)
 create mode 100644 GroceryDelivery.BusinessLayer/bin/Debug/netcoreapp7.0/CoverletSourceRootsMapping
 create mode 100644 GroceryDelivery.BusinessLayer/bin/Debug/netcoreapp7.0/GroceryDelivery.BusinessLayer.deps.json
 create mode 100644 GroceryDelivery.BusinessLayer/bin/Debug/netcoreapp7.0/GroceryDelivery.BusinessLayer.dll
 create mode 100644 GroceryDelivery.BusinessLayer/bin/Debug/netcoreapp7.0/GroceryDelivery.BusinessLayer.pdb
 create mode 100644 GroceryDelivery.BusinessLayer/bin/Debug/netcoreapp7.0/GroceryDelivery.BusinessLayer.runtimeconfig.json
 create mode 100644 GroceryDelivery.BusinessLayer/bin/Debug/netcoreapp7.0/GroceryDelivery.DataLayer.dll
 create mode 100644 GroceryDelivery.BusinessLayer/bin/Debug/netcoreapp7.0/GroceryDelivery.DataLayer.pdb
 create mode 100644 GroceryDelivery.BusinessLayer/bin/Debug/netcoreapp7.0/GroceryDelivery.Entites.dll
 create mode 100644 GroceryDelivery.BusinessLayer/bin/Debug/netcoreapp7.0/GroceryDelivery.Entites.pdb
 create mode 100644 GroceryDelivery.BusinessLayer/obj/Debug/netcoreapp7.0/.NETCoreApp,Version=v7.0.AssemblyAttributes.cs
 create mode 100644 GroceryDelivery.BusinessLayer/obj/Debug/netcoreapp7.0/GroceryDelivery.BusinessLayer.AssemblyInfo.cs
 create mode 100644 GroceryDelivery.BusinessLayer/obj/Debug/netcoreapp7.0/GroceryDelivery.BusinessLayer.AssemblyInfoInputs.cache
 create mode 100644 GroceryDelivery.BusinessLayer/obj/Debug/netcoreapp7.0/GroceryDelivery.BusinessLayer.GeneratedMSBuildEditorConfig.editorconfig
 create mode 100644 GroceryDelivery.BusinessLayer/obj/Debug/netcoreapp7.0/GroceryDelivery.BusinessLayer.assets.cache
 create mode 100644 GroceryDelivery.BusinessLayer/obj/Debug/netcoreapp7.0/GroceryDelivery.BusinessLayer.csproj.AssemblyReference.cache
 create mode 100644 GroceryDelivery.BusinessLayer/obj/Debug/netcoreapp7.0/GroceryDelivery.BusinessLayer.csproj.CopyComplete
 create mode 100644 GroceryDelivery.BusinessLayer/obj/Debug/netcoreapp7.0/GroceryDelivery.BusinessLayer.csproj.CoreCompileInputs.cache
 create mode 100644 GroceryDelivery.BusinessLayer/obj/Debug/netcoreapp7.0/GroceryDelivery.BusinessLayer.csproj.FileListAbsolute.txt
```