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Automation framework migration from version 1 to version 2

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Introduction

In the growing age of automation, our framework is based on Java and Selenium. We have updated our existing framework 'Selenium Java Automation Framework' from version 1 to version 2. In addition to version 1 utilities , we have added/modified following utilities and few more updated in the version 2 framework. **Selenium 4 features are added, Elastic search - Kibana dashboard integration, Appium - Mobile Automation introduced, some new methods are added in the Page Manager class and Test Case base class, as well as Rest Assured capability is introduced as well.** Therefore, if any of the existing projects wish to upgrade from version 1 to version 2, they must follow below steps -

1. Checkout latest framework version from SVN
2. Copy/Move project packages into version 2 framework
3. Adding test data to the framework
4. Updating POM file
5. Doing Dry Run

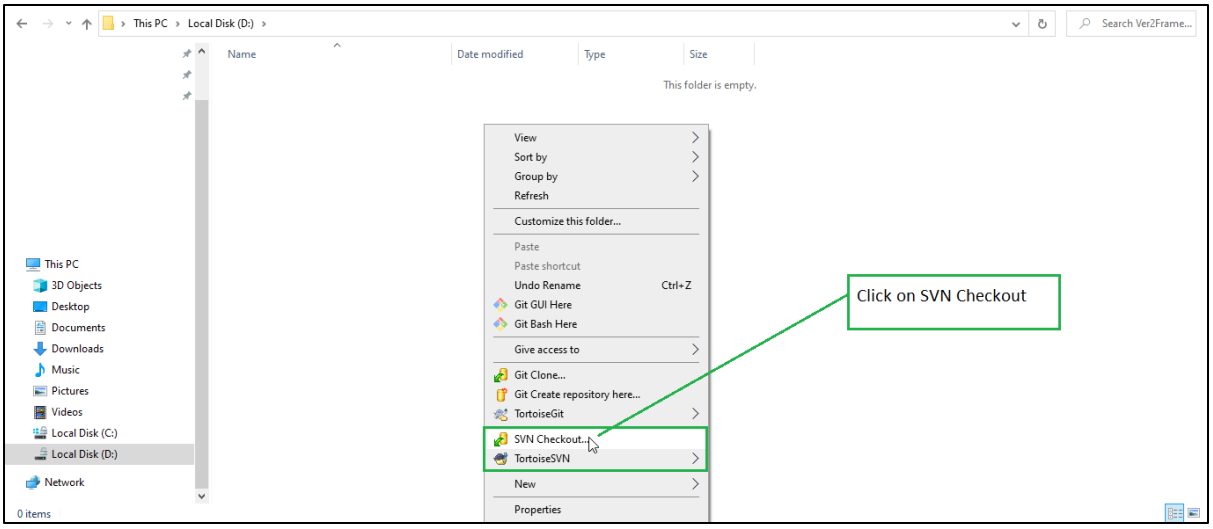
All the above-mentioned steps are explained in detail in the below section of document. Refer the below section to have the better understanding of migrating the automation project from version 1 to version 2.

1. Checkout latest framework version from SVN

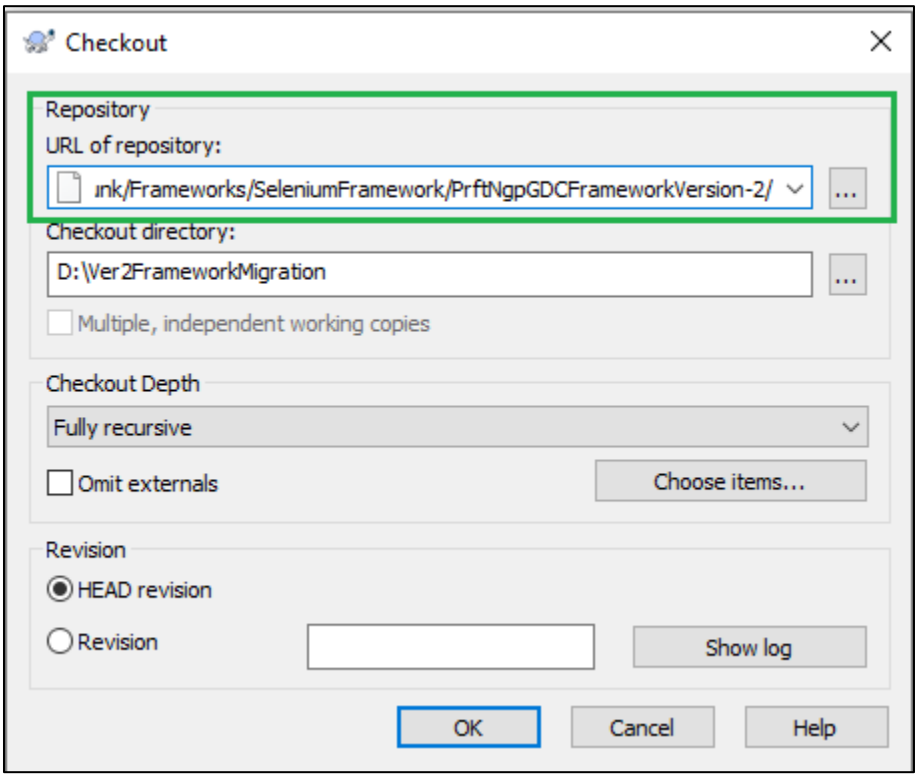
Below are the steps to take checkout from SVN

1) Checkout version 2 framework from below SVN Link.
   https://subversion.perficient.com/svn/nagpur_qa_automation/trunk/Frameworks/SeleniumFramework/PrftNgpGDCFrameworkVersion-2/

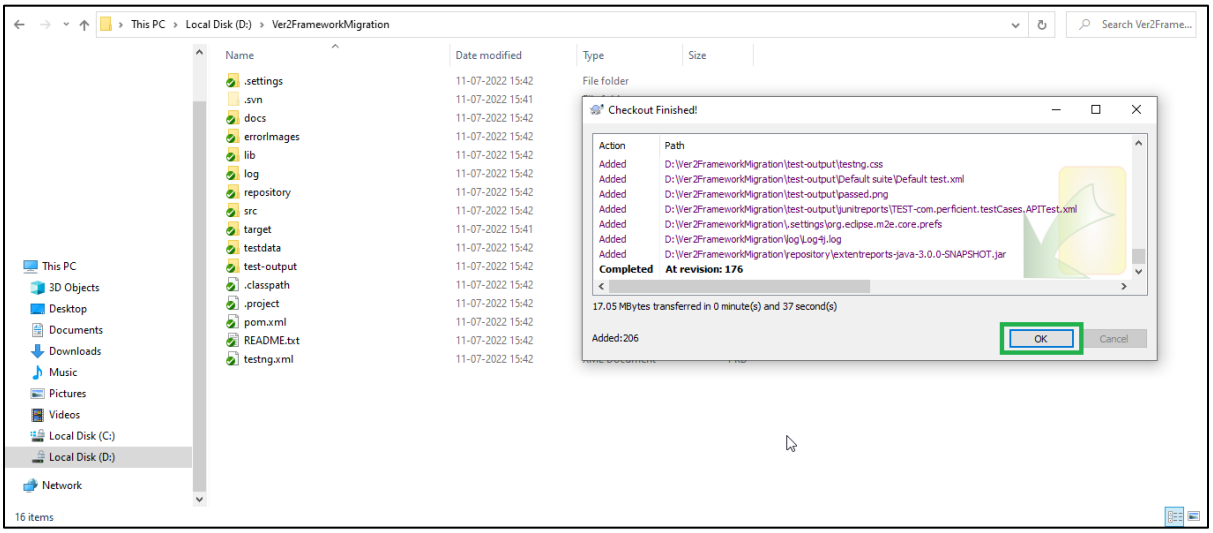
2) To checkout follow the below steps:
3) Click on "SVN Checkout" (You need to have SVN installed on your system).



4) Enter the Framework URL and click on ok.

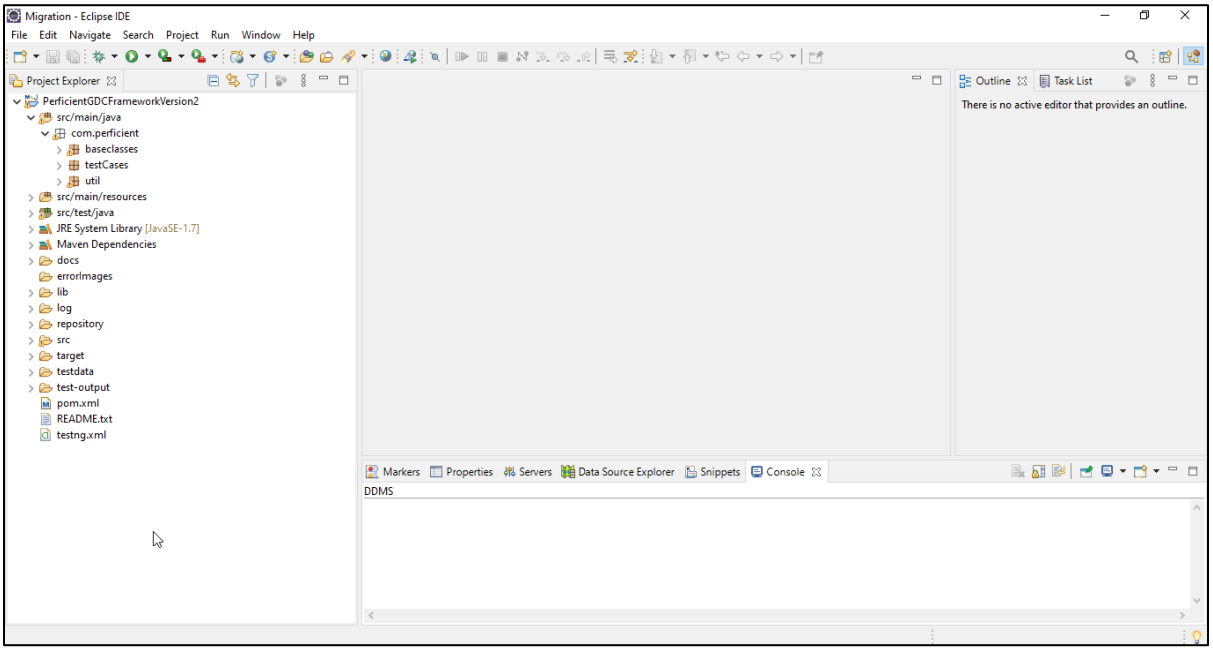


5) After checkout it will look like this.



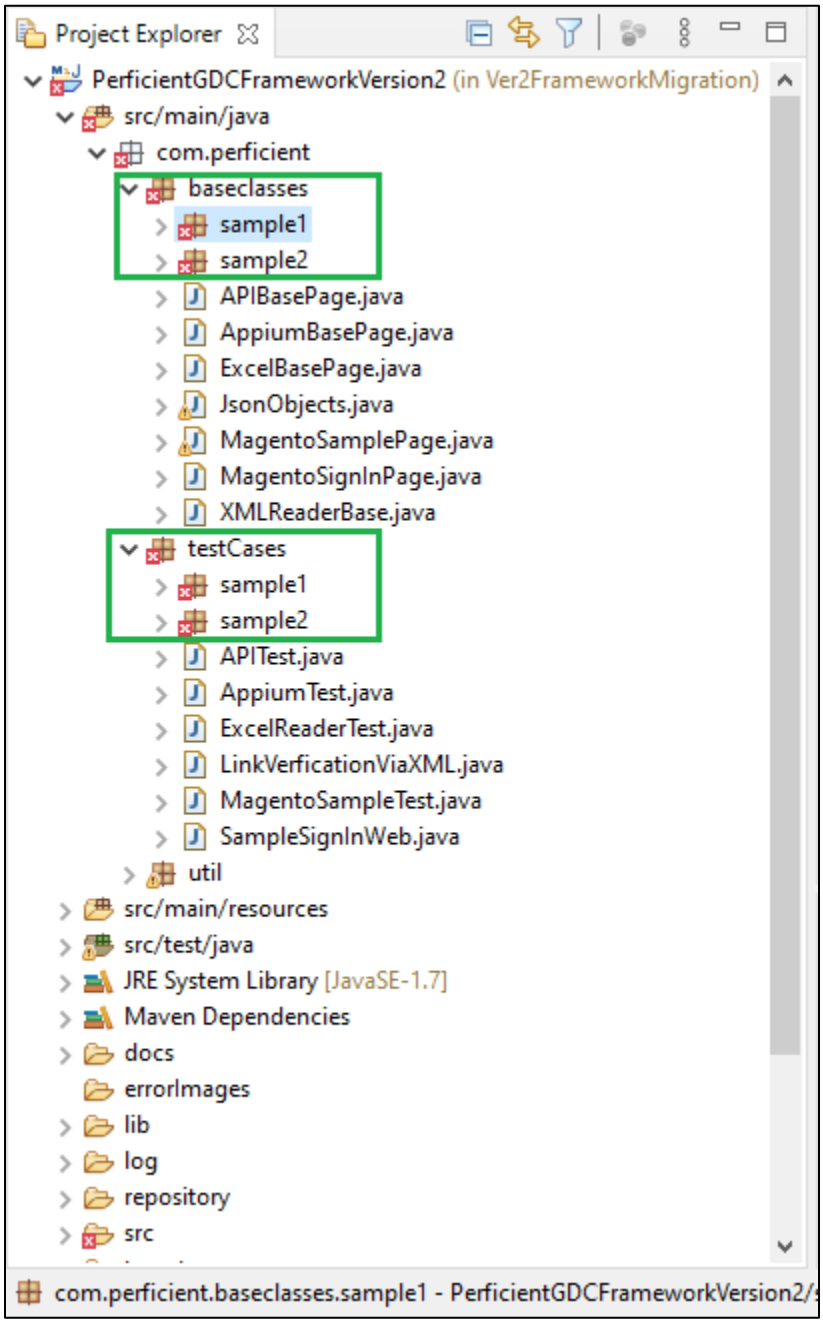
6) Open the Framework in your IDE (Ex: Eclipse), It will take some time to add all the maven dependencies.

7) It will look like this.



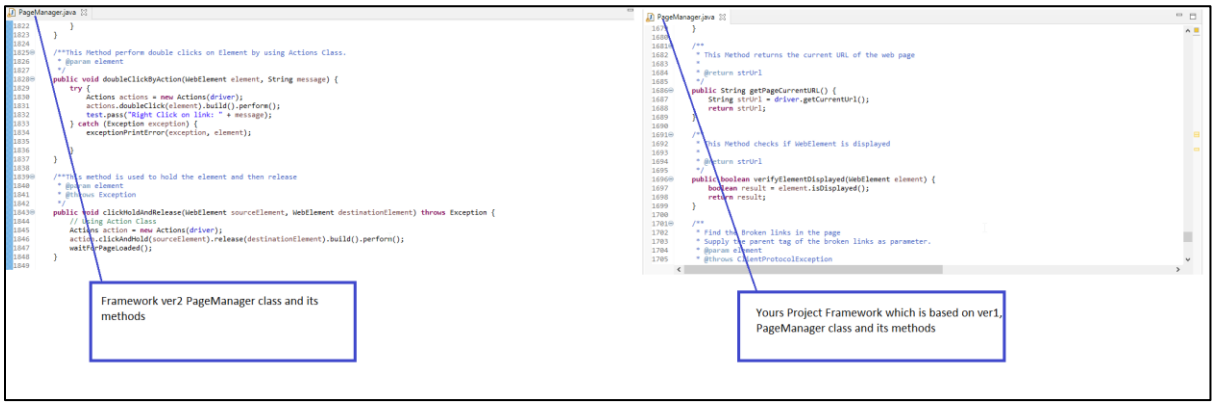
2. Copy/Move project's packages into Ver2 framework

1) As our test scripts are written in designated packages, i.e baseclass, testclass package, so, we need to copy/move our base and test classes from our version 1 to version 2 framework folders.



After copying/moving the project's packages, you will be welcomed with multiple errors, don't panic. Those errors show up because of the dependencies and utilis we were using in version 1 and have are missing in version 2. So here we must compare those first and try to resolve them.

After adding base and test class package, compare the utility files.

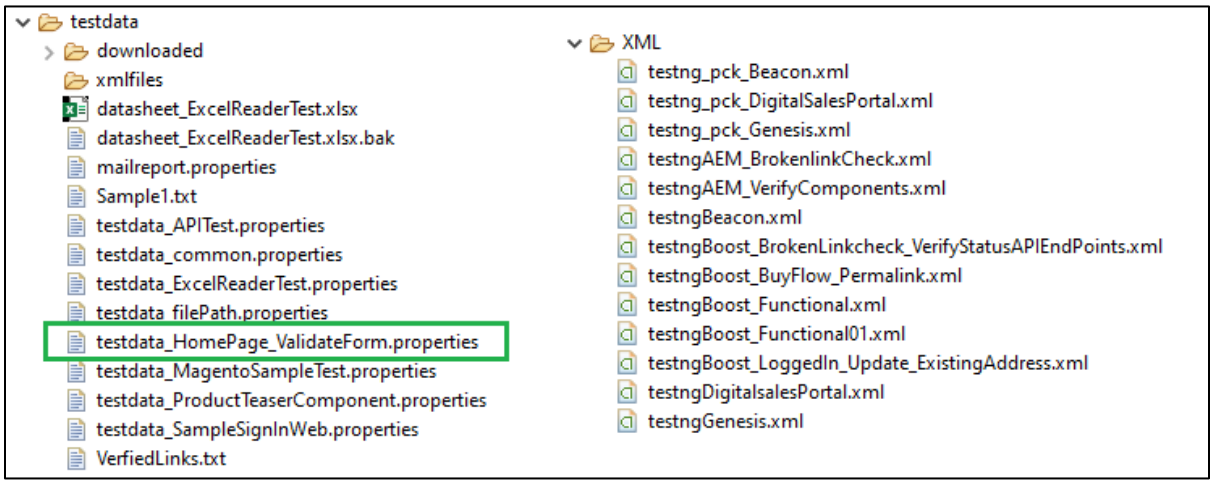


There are chances that some additional files in Framework util package may differ. So, compare all those files which are not present in Framework and add them in the new version. You need to insert the files at correct location.

There are some possibilities that the methods which are present in Ver2 have same operation, but its name has been changes, for example.

3. Adding Test Data to Framework ver2

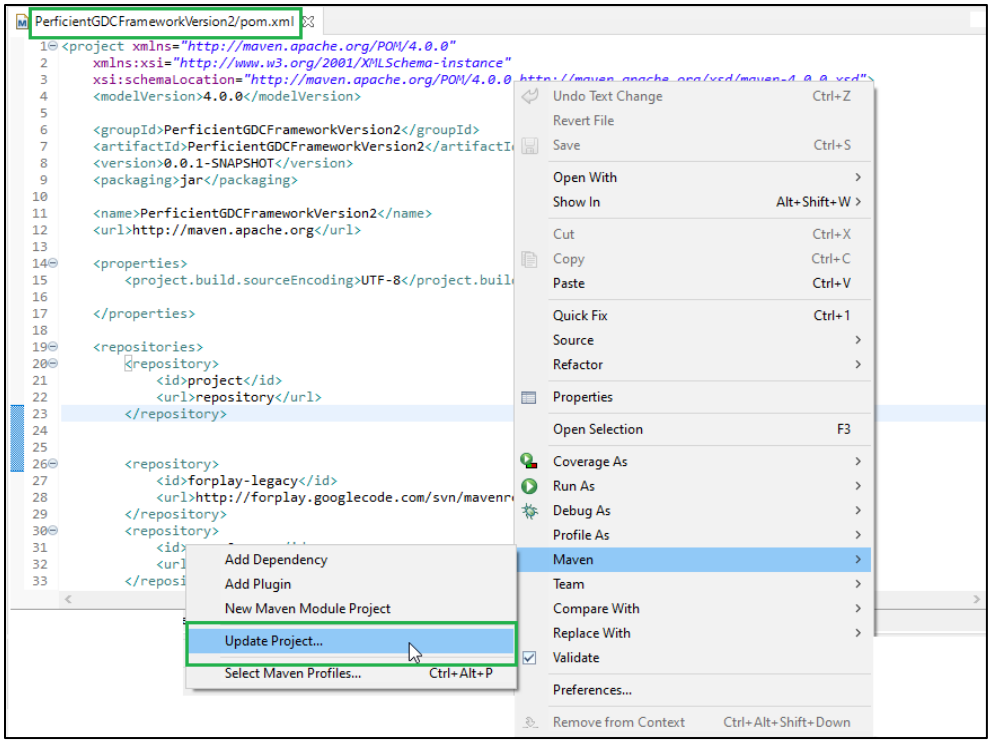
After adding Utils files, now add all the testdata present in your framework to Ver2 framework, first compare it with your existing framework and then add it. Test data will include all your properties files, Excel sheets, Text/Json file and others. Add XML suites from your project to Framework ver2.



4. Updating pom.xml File

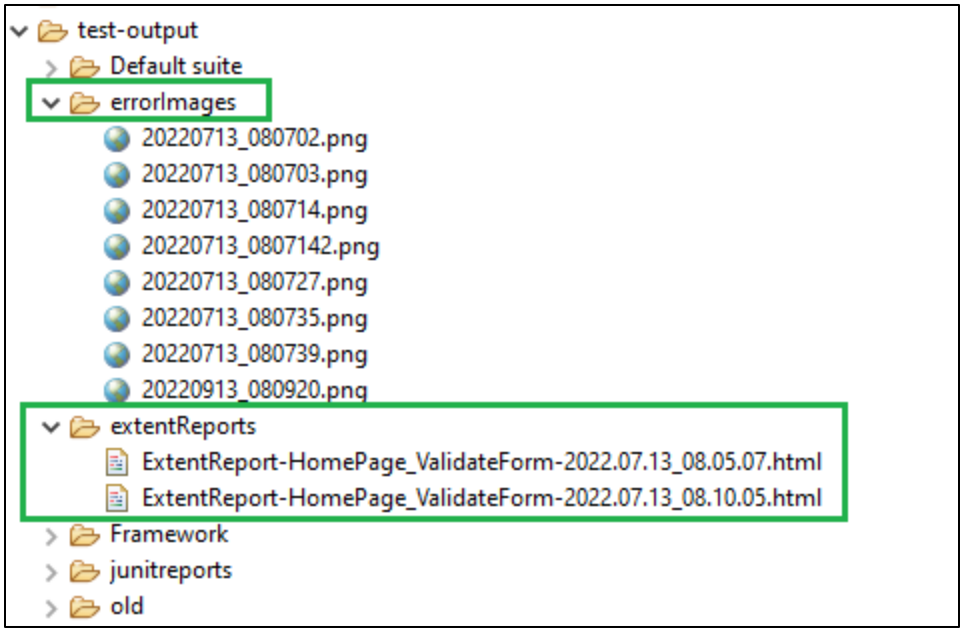
You will still get some errors because of dependencies, so now check the pom.xml file and add the required dependencies as per the project.

Build the framework and check if it still has any error. To update your pom file right click on it, go to maven, and select Update maven option. Make sure your framework is error free, try to run the Framework.



5. Doing Dry Run (Running XML file)

Once you execute the script, you will find the result of the execution under testoutput -> extentReport folder and if there any timing issue or other webElement exception our Framework will take screenshots of those, and it will store under testoutput -> errorImages folder



For more information you can refer the Framework documents which are available in framework itself, under Framework -> doc folder