### FUSEPLM -GUIDELINES FOR AUTOMATION TESTING

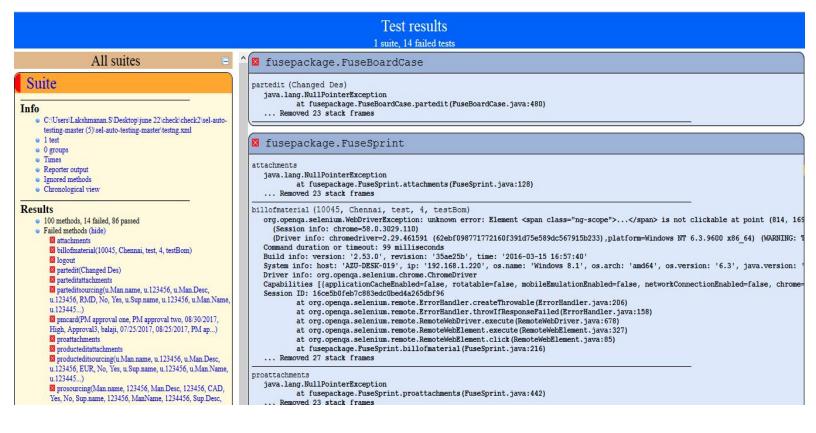
#### **Initial Requirement:**

When FusePlm project was started client were sent a Test case Documents to understanding the flow of Manual testing. We have done the Automation testing based on test cases only. Also we wrote the test scripts based on the TestNG Framework. It's very helpful to do the Data Provider, Grouping, Report Generation.

Initially,I had discussed with client to understand the domain knowledge and the application workflow. Actually this project under **Product Lifecycle Management** domain. So they gave the idea's about the workflow of all the Module. For the first release i did the automation test scripts only based on the flow of application for Each and Every modules and it's not dependent on test cases. Because modules are dependent on the previous modules. Refer the Image

```
1 package fusepackage;
    2⊕ import java.io.IOException; ...
  16
  17 public class FuseSprint extends WrapperClass
  18 {
  20⊕
                public void login() throws IOException, InterruptedException {
  41⊕
                public void createpart (String Part, String Category, String Revision) throws IOException, InterruptedException {
                public void incrementalrevcheck(String Note) throws IOException, InterruptedException{
  59⊕
74⊕
                public void basicinfo (String Des, String Unitmeasure, String Protype, String Projname, String Tags) throws IOException, InterruptedException (
  92⊕
                public void changestatus() throws IOException, InterruptedException{
 103⊕
                public void incrementalrev(String Note) throws InterruptedException, IOException{
 118⊕
                public void additionalinfo() throws IOException, InterruptedException{[...]
 124⊕
                public void attachments() throws InterruptedException, IOException{□
 147⊕
                public void sourcing (String Manfname, String Manfpnum, String ManfDesc, String Manfcost, String mcurrency, String mapproved, String mavailable, String Supr
 211⊕
                public void billofmaterial (String partnumber, String location, String ref, String quantity, String bomnote) throws IOException, InterruptedException [
 2420
                @Test(priority = 10, enabled = true)
 243
                public void whereused() throws InterruptedException,IOException{
 244
                       //Where-Used
                        \verb|clickByXpath("/html/body/div[1]/div/div/md-content/div[1]/div/div[2]/md-tabs-wrapper/md-tabs-canvas/md-pagination-wrapper/md-tab-item[6]/div[6]/md-tabs-wrapper/md-tabs-wrapper/md-tabs-wrapper/md-tabs-wrapper/md-tabs-wrapper/md-tabs-wrapper/md-tabs-wrapper/md-tabs-wrapper/md-tabs-wrapper/md-tabs-wrapper/md-tabs-wrapper/md-tabs-wrapper/md-tabs-wrapper/md-tabs-wrapper/md-tabs-wrapper/md-tabs-wrapper/md-tabs-wrapper/md-tabs-wrapper/md-tabs-wrapper/md-tabs-wrapper/md-tabs-wrapper/md-tabs-wrapper/md-tabs-wrapper/md-tabs-wrapper/md-tabs-wrapper/md-tabs-wrapper/md-tabs-wrapper/md-tabs-wrapper/md-tabs-wrapper/md-tabs-wrapper/md-tabs-wrapper/md-tabs-wrapper/md-tabs-wrapper/md-tabs-wrapper/md-tabs-wrapper/md-tabs-wrapper/md-tabs-wrapper/md-tabs-wrapper/md-tabs-wrapper/md-tabs-wrapper/md-tabs-wrapper/md-tabs-wrapper/md-tabs-wrapper/md-tabs-wrapper/md-tabs-wrapper/md-tabs-wrapper/md-tabs-wrapper/md-tabs-wrapper/md-tabs-wrapper/md-tabs-wrapper/md-tabs-wrapper/md-tabs-wrapper/md-tabs-wrapper/md-tabs-wrapper/md-tabs-wrapper/md-tabs-wrapper/md-tabs-wrapper/md-tabs-wrapper/md-tabs-wrapper/md-tabs-wrapper/md-tabs-wrapper/md-tabs-wrapper/md-tabs-wrapper/md-tabs-wrapper/md-tabs-wrapper/md-tabs-wrapper/md-tabs-wrapper/md-tabs-wrapper/md-tabs-wrapper/md-tabs-wrapper/md-tabs-wrapper/md-tabs-wrapper/md-tabs-wrapper/md-tabs-wrapper/md-tabs-wrapper/md-tabs-wrapper/md-tabs-wrapper/md-tabs-wrapper/md-tabs-wrapper/md-tabs-wrapper/md-tabs-wrapper/md-tabs-wrapper/md-tabs-wrapper/md-tabs-wrapper/md-tabs-wrapper/md-tabs-wrapper/md-tabs-wrapper/md-tabs-wrapper/md-tabs-wrapper/md-tabs-wrapper/md-tabs-wrapper/md-tabs-wrapper/md-tabs-wrapper/md-tabs-wrapper/md-tabs-wrapper/md-tabs-wrapper/md-tabs-wrapper/md-tabs-wrapper/md-tabs-wrapper/md-tabs-wrapper/md-tabs-wrapper/md-tabs-wrapper/md-tabs-wrapper/md-tabs-wrapper/md-tabs-wrapper/md-tabs-wrapper/md-tabs-wrapper/md-tabs-wrapper/md-tabs-wrapper/md-tabs-wrapper/md-tabs-wrapper/md-tabs-wrapper/md-tabs-wrapper/md-tabs-wrapper/md-tabs-wrapper/md-tabs-wrapper/md-tabs-wrapper/md-tabs-wrapper/md-tabs-wr
 246
                       Thread.sleep(3000);
 247
                       clickByXpath("html/body/div[1]/div/div/md-content/div[1]/div/div[2]/md-tabs-content-wrapper/md-tab-content[6]/div/md-content/div/div/div
 248
                        Thread.sleep(3000);
 249
 250⊖
               @Test(enabled = true,dataProvider = "BOMwhereused",dependsOnMethods = {"whereused"})
                public void BOMwhereused (String partnumber) throws InterruptedException, IOException{
 251
 252
                Thread.sleep(3000);
 253
                gettitlenumtrim("html/body/div[1]/div/div/md-content/div[1]/div/div[1]/div/div[1]/div[1]/span[1]/strong");
 254
                 //Bill of Material to the Part from where used
 255
                Searchelement("html/body/div[1]/div/div/md-content/div[1]/div/div[2]/md-tabs/md-tabs-wrapper/md-tabs-canvas/md-pagination-wrapper/md-tab-item[5]/sp.
 256
                if (searchElement != null)
 257
 258
                searchElement.click():
 259
                Thread.sleep (3000);
```

So Finally we got a Test Results based on these modules. Refer this Image



#### **Second Requirement:**

From this results client could not understood the requirements given by the test cases. It's difficult to understand the passed and failed tests on a particular test cases. So i have re-arranged the codes based on each and action like Click on Parts, Scroll to Products, Drag and Drop the card, Enter Task name etc.,

Here from the results client has confused with so much of duplicate cases. Ex.Create a Parts for Five times with various Part names, Here the test scripts are same and it's handled by various execution time.

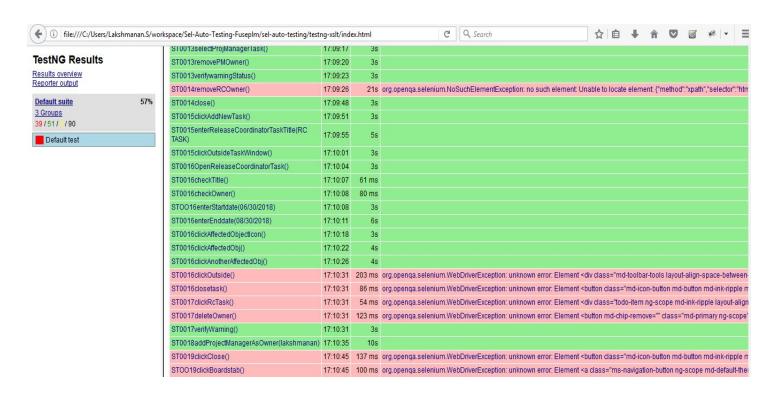
# **Third Requirement:**

As per the client requirement,I have categorized all the test scripts based on test case ID. So client has to easily find which test cases going to passed and failed from the test results.Refer this Image

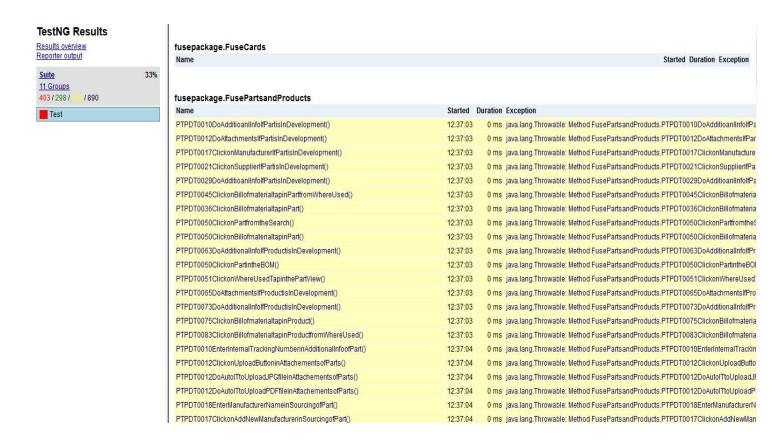
This is an image represent the passed test cases with test case Id to easily understand the requirement from the test cases.



This is an image represent the passed and failed test cases with test case Id to easily understand the requirement from the test cases.



This is an image represent the Skipped test cases with test case Id from the test results. Actually skipped cases are depending on another test case once it get passed those all the dependency cases are going to execute otherwise it is going to be skipped.



## **Final Requirement:**

Whenever the execution of test scripts we can find out the exceptions cases on test results. But that @test not going to be failed because of that action has to be completed with exception cases so that it displays the type of exception in the test results.

Technically client could not understood the concepts from the testng results. They required the results like whenever the exception was handled on every @test that particular @test going to be failed by the reason of exception. So that i have removed the exception (try and catch, Finally cases) to all the test cases. Finally delivered the project to client. Refer the test results.

