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| --- | --- | --- |
| **Maven dependencies to pom.xml** | |  |
| 1 | selenium jars |  |
| 2 | testNg jars |  |
| 3 | log4J - log4j.api jars log4j-core jars |  |
| 4 | poi - poi & poi-ooxml jars |  |
| 5 | extentreports jars |  |
|  |  |  |
| **in Src/test/java   Create packages & Folders** | | |
| 1 | for pageObjects ***com.ProjectName.pageobjects*** | pageobjects classes |
| 2 | for testcases ***com.ProjectName.testcases*** | Baseclass.java TestCases classes |
| 3 | for testdata ***com.ProjectName.testdata*** | logintestdata.xlsx |
| 4 | for utilities ***com.ProjectName.utilities*** | ReadConfig.java ReportListener.java XLUtils.java |
| 5 | Create folders  Drivers Configuration screenshots | Drivers - drivers downloaded Configuration - config.properties screenshots |
| 6 | Project home | ***pom.xml*** testng.xml extent-config.xml log4j.properties/xml |
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| **PageObjectModel- PageFactory design Pattern** | | |
| 1 | PageObject class for the webpage | in src/test/java>com.pjtname.pageobjects |
| 2 | Create constructor - driver as parameter | PageObject class |
| 3 | PageFactory class & initElements() method |
| 4 | POM - @FindBy ()..WebElement variabe |
| 5 | Create a method for each pageobject |
|  |  |  |
| **Creating TestCases** | | |
| 1 | BaseClass for the test cases class | In src/test/java>com.pjtname.testcases > |
| 2 | TestCases classe for the tests- LoginTest.java |
|  |  |  |
|  |  |  |
| **Apache Log4J** | | |
| 1 | log4j.api | in pom.xml |
| 2 | log4j-core |
| 3 | Log4j.property file OR  Log4j.xml file | Project Home path |
| 4 | logger object- Logger class & PropertyConfigurator/DOMCOnfigurator | BaseClass.jav |
| 5 | log info messages | in TestCase classes |
|  |  |  |
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| **dataConfig.properties file** | | |
| 1 | config.properties | Configuration folder in project |
| 2 | Utility file -ReadConfig.java | in src/test/java> com.pjtname.utilities |
|  |  |  |
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| **Cross Browser Testing** | | |
| 1 | Annotation @Parameters | in BaseClass |
| 2 | Browser driverexes path | in Config.properties |
| 3 | <parameters> tag | in testng.xml |
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| **Extent Reports** | | |
| 1 | Extent Reports jars | in pom.xml |
| 2 | Extent Reports Config.xml file | project home |
| 3 | Excel testdata file | in src/test/java/com.pjtname.testdata package |
| 4 | TestNG Listeners | src/test/java/com.pjtname.utilities pkg |
| 5 | <listeners> | testng.xml |
|  |  |  |
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| **Creating DataDrivenTests** | | |
| 1 | poi & poi-ooxml jars | in pom.xml |
| 2 | Excel testdata file with data | in src/test/java/com.pjtname.testdata package |
| 3 | XLUtils.java - utility file | in src/test/java/com.pjtname.utilities package |
| 4 | Annotation @DataProvider | in src/test/java/com.pjtname.testcases package-  new testcase class |
| 5 | pageObjects | from Pageobject classes to @Test method |
| 6 | testcase class to <classes> | in testng.xml |
|  |  |  |
|  | Test Execution | 1. pom.xml - surefireplugin |
|  | 2. Maven CLI- maven commands |
|  | 3. Jenkins- simple project |
|  | 4. Jenkins-maven project |
|  |  |  |
|  | Jenkins Github |  |

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| testng.xml file - tag positions |  |
| <listeners> tag | below <suite> tag |
| <parameter> tag | below <test> above <classes> tag |
|  |  |
|  |  |
|  |  |
| pom.xml file - tag positions |  |
| <build><plugins> | first tag after <version> |
| <denpendencies> | below </plugins></build> |

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| testng listeners-  listeners class file testcase class file | testng.xml file- <listeners class name=""> tag |
| extent reports-   extent report jars- set in javabuildpath extent\_config .xml file- will be downloaded along with the jars testng listeners testcase class files-screenshot capture testng.xml file | testng.xml file- <listeners class name=""> tag |

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| Hybrid FW - Project files-TestExecution-Reports | | |
| New>Maven Project> | PageObjectsClasses BaseClass - no @Test TestCasesClasses | no test\_output folder |
| TC- @Test | Run As TestNG Test Refresh Project> test-output folder | 1. console window report 2. testng- Treemode report 3. testng-test-output folder > index.html 4. test-output folder emailablereport.html |
| TC- Log4j-logger | logger in BaseClass log info in TC Run As TestNG Test>Refresh Project> logs folder | logs folder> logs will be added to the same file  after each execution |
| config.properties | ReadConfig in BaseClass no changes in that TC Run As TestNG Test>Refresh Project | 1. console window report 2. testng- Treemode report 3. testng-test-output folder > index.html 4. test-output folder emailablereport.html 5. logs folder> log file |
| crossbrowser-TestNG XML file generation | TestNG XML file generation BaseClas -@Parameters annotation testng.xml-<parameters> tag Run testng.xml file-Run As TestNG Suite | Refresh project |
| Extent Reports | BaseClass -screenshots capture script testng.xml-<listeners> tag TC- screenshotcapture call for failed tests Run testng.xml file-Run As TestNG Suite> Refresh Project | test-output folder> extentReports in html will be added as per the code designed format- name as given in Reporting.java, with date and time latest file will be the last one |
| DDT DataDrivenTesting | New PageObjectClass if required No changes in BaseClass New TC - Add new TC- TC\_02LoginDDTTest.java @DataProvider anno & dataProvider() mthd in the TC. testdata xls- give correct path in testcase XLUtils.java testng.xml- Add this new TC to testng.xml Run testng.xml file-Run As TestNG Suite> Refresh Project | 1. console window report 2. testng- Treemode report 3. testng-test-output folder > index.html 4. test-output folder emailablereport.html 5. logs folder> log file 6. test-output folder- extentReports html |
| Add new TC | new pageobject class new testcase class-AddCustomer in baseclass- add if common methods in testng.xml- add this new TC Run testng.xml file-Run As TestNG Suite> Refresh Project | 1. console window report 2. testng- Treemode report 3. testng-test-output folder > index.html 4. test-output folder emailablereport.html 5. logs folder> log file 6. test-output folder- extentReports html |