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Selenium Java Training - Session 33 - Developing a Framework and Automating Live Project (Part 1)

- Create a Maven Quick-start Project
- Add the dependency tags for below:
  - WebDriverManger
  - Selenium Java
  - TestNG
  - Log4j (log4j-api and log4j-core)
  - Apache Commons IO
  - ExtentReports
- Create a Base class
  - Create resources package under 'src/main/java'
  - Create Base class under this package
  - Create a method for initializeBrowser inside the Base class - [View here](#)
  - Read the browser name from Properties file, instead of hardcoding it
    - create data.properties file under resources pack
    - Add this property browser=chrome to the file
    - Modify the initializeBrowser code accordingly - [View here](#)
- Create a Class for 'LoginTest' under 'src/test/java' under 'tests' package
  - Create a method say 'login' and annotate with @Test
  - Extend the LoginTest class with Base class
  - Write the code to initialize the browser and open the Application URL
  - Run the LoginTest to see, if this is executing so far.
  - Remove the URL hardcoding and read the URL from the properties file
  - Run the LoginTest to see, if this is executing after this change - [View here](#)
    - Add this property url= http://tutorialsninja.com/demo/ to the properties file
- Write the remaining code of LoginTest by creating Page Objects
  - Create a package under 'src/main/java' as 'pageobjects'
  - Create a class say 'LandingPage' under this package with page objects - [View here](#)
  - Create an object for LandingPage from LoginTest and perform required operations - [View here](#)
  - Run the LoginTest to see, if this is executing so far.
  - Create a class say 'LoginPage' under this package with page objects - [View here](#)
  - Create an object for LoginPage from LoginTest and perform required operations - [View here](#)
  - Run the LoginTest to see, if this is executing so far.
  - Create a class say 'AccountPage' under this package with page objects - [View here](#)
  - Create an object for AccountPage from LoginTest and perform required operations - [View](#)

- Write @AfterMethod to close the browser - [View here](#)
- Parameterize the Test by passing multiple sets of data from DataProvider annotated method
  - Create a DataProvider annotated method and pass the data to the Test annotated method - [View here](#)
- Create @BeforeMethod
  - Organize the code for opening the Application - [View here](#)
- Create some dummy Test Classes with simple SOP statements
  - TestTwo
  - TestThree
  - TestFour
- Convert the Project to TestNG
  - Right click on the Project, Select TestNG > Convert to TestNG
  - Execute the Tests as a group using testng.xml file
- Integrate with Maven to run the Project from the command line
  - Search for Maven TestNG configuration and add the plugin for Maven Surefire plugin having configuration tags
  - Run from the command prompt - mvn test

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