Automation Testing Framework Build Steps

1. Create Maven test environment
   1. In terminal, move to preferred directory, then enter the following:
      1. mvn archetype:generate –DgroupId={project-packaging-name} –DartifactId={project-name} –DarchetypeArtifactId=maven-archetype-quickstart –DinteractiveMode=false
2. Connect project to Eclipse
   1. In terminal, move into project directory, then enter the following:
      1. mvn eclipse:eclipse
3. Import project in Eclipse
   1. Open Eclipse
   2. Click File in top navigation
   3. Click Import in dropdown menu
   4. Click Existing Projects into Workspace option or Existing Maven Projects
   5. Click Next
   6. Click Browse, find/click project directory and click OK
   7. Click Finish
4. Configure framework dependencies (.jar files) in pom.xml file
   1. Go to <https://mvnrepository.com>
   2. Search for selenium java
   3. Select latest stable version and copy dependency xml
   4. In Eclipse project, open pom.xml file
   5. If included, remove junit dependency within dependencies tag
   6. Add selenium dependency to dependencies tag
   7. Repeat steps 4a-4e regarding testng dependency
5. Create page object file Base class for re-useable methods
   1. Direct back to Eclipse project
   2. Create a Base class within src/main/java package
   3. Create a File named data.properties within src/main/java package
   4. Within data.properties add the following:
      1. Browser=chrome
   5. Within Base class, create a initializeDriver method as follows:

**public** WebDriver driver;

**public** WebDriver initializeDriver() **throws** IOException {

Properties props = **new** Properties();

FileInputStream fis = **new** FileInputStream("C:\\Users\\zzmar\_000\\Desktop\\IT\_Related\\AutomationTestingFrameworkBuild\\src\\main\\java\\Academy\\data.properties");

props.load(fis);

String browserName = props.getProperty("browser");

**if**(browserName.equals(“chrome")) {

System.*setProperty*("webdriver.chrome.driver", "C://chromedriver.exe");

driver = **new** ChromeDriver();

} **else** **if** (browserName.equals("firefox")) {

System.*setProperty*("webdriver.gecko.driver", "C://geckodriver.exe");

driver = **new** FirefoxDriver();

}

driver.manage().timeouts().implicitlyWait(10, TimeUnit.***SECONDS***);

**return** driver;

}

1. Create first test case to test initializeDriver method
   1. Within src/test/java package create HomePage class and add the following:

**public** **class** HomePage **extends** Base{

@Test

**public** **void** basePageNavigation() **throws** IOException {

driver = initializeDriver();

driver.get("http://www.qaclickacademy.com/");

}

}