

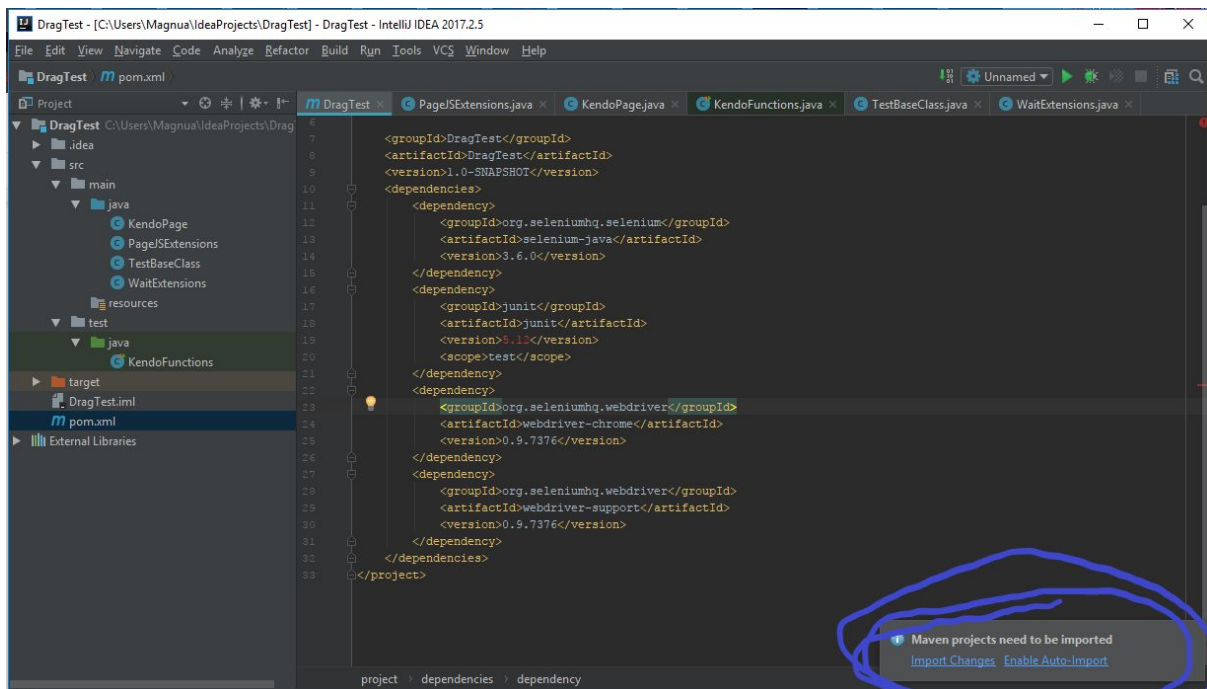
Introduction into project.

1. **Explanation on used technology-** I choosed website with Kendo chart - as as far as I know Kendo charts are hardest elements on site for which you can create automated tests. Kendo displays charts in SVG structure in which elements cannot be located with neither CSS Selectors nor with XPath. Thus as solution I used JQuery selectors - which are combination of CSS Selectors, XPath, JQuery and allow usage of such mechanisms like f.e. ancestry from XPath while working faster.
2. **Explanation on used waits** - Didn't added waiting for elements (beside page load). Wanted to test stability of Actions class in context of chain events. I would like to test that on Jenkins or Teamcity to see if Actions module is stable also on these environments. For now I only know that moveByOffset method is unstable / not working so I didn't used it. In case of instability on Jenkins and need of refactoring and using waits just in case I prepared method:

```
public static void waitElementReady(WebDriver driver, final String selector, int
timeout) {
    waiter = new WebDriverWait(driver, timeout);
    ExpectedCondition<Boolean> expectation = new
        ExpectedCondition<Boolean>() {
            public Boolean apply(WebDriver driver) {
                return getWebElement(driver, selector).isDisplayed();
            }
        };
    waiter.until(expectation);
}
```

Instructions on how to run tests.

1. Project created in **IntelliJ**.
2. Require downloading **chromedriver.exe** (in folder)
-<https://drive.google.com/open?id=0B-Xi16VOY1g7dmRPZ25WNkZQQVvk>
3. Require downloading **Java SDK 8.0**
4. May require clicking right on pom.xml and choosing adding maven project and selecting SDK while running project for first time
5. Require **maven dependencies** - **click import** dependencies pop-up on first opening of project.



6. If you don't have chromedriver.exe set in your environment variables - you can just **uncomment and modify path in TestBaseClass -> Setup()** with correct path to chromedriver.exe. (example path in commented in file.)

```

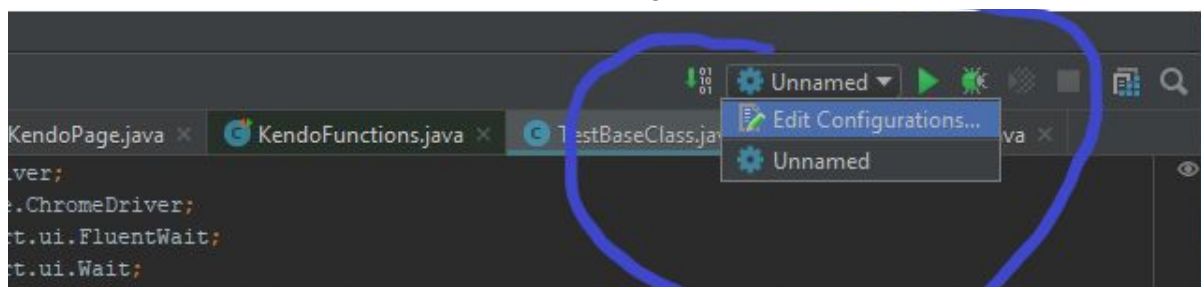
public class TestBaseClass {
    public static WebDriver driver;
    public static Wait<WebDriver> wait;

    public static void SetUp(){
        //use if chromedriver.exe enviroment variable not set:
        //System.setProperty("webdriver.chrome.driver", "C:\\Users\\Magnua\\Desktop\\chromedriver.exe");
        driver = new ChromeDriver();
        wait = new FluentWait<WebDriver>(driver)
            .withTimeout( duration: 3000, MILLISECONDS)
    }
}

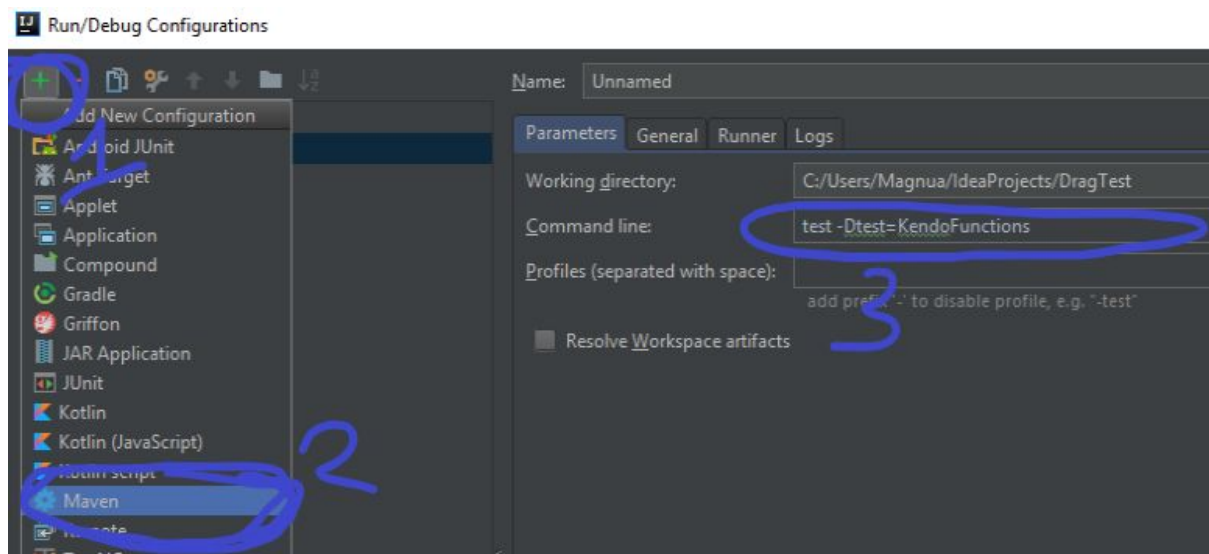
```

7. The last one is **Running maven test** which require 3 steps:

Click edit configuration



Add new maven runnable configuration with parameters:
"test -Dtest=KendoPageTests" in "Command line".



Run this configuration with green arrow button.

