**Page Object Design Pattern**

**Java base class:**

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.chrome.ChromeDriver;

public class TestBase {

public static WebDriver driver;

public static void openBrowser()

{

driver = new ChromeDriver();

driver.manage().window().maximize();

driver.get("https://tutorialsninja.com/demo/");

}

}

**Java Page Class:**

import org.openqa.selenium.WebElement;

import org.openqa.selenium.support.FindBy;

import org.openqa.selenium.support.PageFactory;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.interactions.Actions;

import com.ninjademo.qa.base.TestBase;

public class HomePage extends TestBase {

Actions a = new Actions(driver);

@FindBy(xpath = "//span[text()='My Account']")

WebElement myaccount;

@FindBy(xpath = "//a[text()='Register']")

WebElement register;

@FindBy(xpath="//a[text()='Login']")

WebElement login;

@FindBy(xpath="//a[text()='Desktops']")

WebElement desktop;

@FindBy(linkText ="Mac (1)")

WebElement macdropdown;

public HomePage(WebDriver driver) {

PageFactory.initElements(driver, this);

}

public void gettitle()

{

String title = driver.getTitle();

System.out.println(title);

}

public void clickonMyAccount()

{

myaccount.click();

}

public void clickonLogin()

{

login.click();

}

public void clickonRegister()

{

register.click();

}

public void clickOnMac() throws InterruptedException

{

a.moveToElement(desktop).build().perform();

Thread.sleep(1500);

macdropdown.click();

}

}

**Java Test Page Class:**

import org.testng.annotations.AfterMethod;

import org.testng.annotations.BeforeMethod;

import org.testng.annotations.Test;

import com.ninjademo.qa.base.TestBase;

import com.ninjademo.qa.pages.HomePage;

public class HomePageTest extends TestBase{

HomePage hp;

@BeforeMethod

public void OpenApp()

{

openBrowser();

hp = new HomePage(driver);

}

@AfterMethod

public void CloseApp()

{

driver.quit();

}

@Test(priority='1')

public void testTitle()

{

hp.gettitle();

}

@Test(priority='2')

public void testRegisterLink()

{

hp.clickonMyAccount();

hp.clickonRegister();

hp.gettitle();

}

@Test(priority='3')

public void testLoginLink()

{

hp.clickonMyAccount();

hp.clickonLogin();

hp.gettitle(); }

@Test(priority='4')

public void testMacLink() throws InterruptedException

{

hp.clickOnMac();

hp.gettitle();

}

}