## Todays Topic:10-03-2022

# WebElement Assignment Solution

```
package webElement commands;
import org.openqa.selenium.By;
public class WebelementAssignment {
    public static void main(String[] args) {
        // TODO Auto-generated method stub
        String url = "https://opensource-demo.orangehrmlive.com/index.php/auth/login";
        System.setProperty("webdriver.chrome.driver",
 "C:\\Users\\MyDeLL\\Desktop\\Selenium_Sessions\\Drivers\\chromedriver_win32\\chromedriver.exe");
        WebDriver driver = new ChromeDriver();
        driver.get(url);
        driver.findElement(By.id("txtUsername")).sendKeys("Admin");
        driver.findElement(By.id("txtPassword")).sendKeys("admin123");
        WebElement loginBtn = driver.findElement(By.id("btnLogin"));
        loginBtn.click();
        driver.findElement(By.id("MP_link")).click();
        String requesrBtnTag = driver.findElement(By.id("buyBtn1")).getTagName();
        System.out.println("This is tagName for the RequestButton: " + requesrBtnTag);
        String attrVal = driver.findElement(By.id("installButton2")).getAttribute("class");
        System.out.println("This is Class attribute value for the Install Button :" + attrVal);
       String hrmAddons = driver.findElement(By.xpath("//div[@class='head']//child::h1")).getText();
       System.out.println("This is Text value for the OrangeHRM Addons: " + hrmAddons);
        String cssVal = driver.findElement(By.xpath("//span[@id='notification']")).
                getCssValue("font-size");
        System.out.println("This is font-size css property of the notification icon: " + cssVal);
        boolean reqBtn = driver.findElement(By.id("buyBtn1")).isEnabled();
        System.out.println("Request button IsEnabled result: " + reqBtn);
```

### - Selenium Wait commands

#### 1. Introduction

- Most of the web applications are developed using Ajax and Javascript.
- When a page is loaded by the browser the elements which we want to interact with may load at different time intervals.
- Not only it makes this difficult to identify the element but also
  if the element is not located it will throw an "ElementNotVisibleException" exception.
- Using Selenium Waits, we can resolve this problem.

### Difference between Implicit wait and Explicit wait

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- Implicit Wait time is applied to all the elements in the script
- Explicit Wait time is applied only to those elements which are intended by us
- In Implicit Wait, we need not specify "ExpectedConditions" on the element to be located
- In Explicit Wait, we need to specify "ExpectedConditions" on the element to be located
- It is recommended to use when the elements are located with the time frame specified in Selenium implicit wait
- It is recommended to use when the elements are taking long time to load and also for verifying the property of the element like(visibilityOfElementLocated, elementToBeClickable,elementToBeSelected)