

Extracted JUnit code

```
package com.example.tests;

import java.util.regex.Pattern;

import java.util.concurrent.TimeUnit;

import org.junit.*;

import static org.junit.Assert.*;

import static org.hamcrest.CoreMatchers.*;

import org.openqa.selenium.*;

import org.openqa.selenium.firefox.FirefoxDriver;

import org.openqa.selenium.support.ui.Select;


public class SeleniumIDE {

    private WebDriver driver;

    private String baseUrl;

    private boolean acceptNextAlert = true;

    private StringBuffer verificationErrors = new StringBuffer();


    @Before

    public void setUp() throws Exception {

        driver = new FirefoxDriver();

        baseUrl = "https://www.yahoo.com/";

        driver.manage().timeouts().implicitlyWait(30, TimeUnit.SECONDS);

    }


    @Test
```

```
public void testSeleniumIDE() throws Exception {  
  
    driver.get(baseUrl + "/");  
  
    driver.findElement(By.id("uh-search-box")).clear();  
  
    driver.findElement(By.id("uh-search-box")).sendKeys("software");  
  
    driver.findElement(By.id("yuucs-login_signIn")).click();  
  
    driver.findElement(By.id("login-username")).clear();  
  
    driver.findElement(By.id("login-username")).sendKeys("coolprachit_7");  
  
    driver.findElement(By.id("yui_3_18_1_11_1461144398740_126")).click();  
  
    driver.findElement(By.id("persistent")).click();  
  
    driver.findElement(By.id("login-signin")).click();  
  
    driver.findElement(By.id("mbr-back-to-login")).click();  
  
    driver.findElement(By.id("login-signup")).click();  
  
    driver.findElement(By.id("username-reg-firstName")).click();  
  
    driver.findElement(By.id("username-reg-firstName")).clear();  
  
    driver.findElement(By.id("username-reg-firstName")).sendKeys("prachit");  
  
    driver.findElement(By.id("username-reg-lastName")).clear();  
  
    driver.findElement(By.id("username-reg-lastName")).sendKeys("kurani");  
  
    driver.findElement(By.id("username-reg-yid")).clear();  
  
    driver.findElement(By.id("username-reg-yid")).sendKeys("abcdeg");  
  
    driver.findElement(By.id("username-reg-yid")).clear();  
  
    driver.findElement(By.id("username-reg-yid")).sendKeys("abcdefghijk");  
  
    driver.findElement(By.id("username-reg-yid")).clear();  
  
    driver.findElement(By.id("username-reg-yid")).sendKeys("abcdefghijk99");  
  
    driver.findElement(By.id("username-reg-password")).clear();  
  
    driver.findElement(By.id("username-reg-password")).sendKeys("abc");  
}
```

```

driver.findElement(By.id("username-reg-phone")).clear();

driver.findElement(By.id("username-reg-phone")).sendKeys("6692258663");

driver.findElement(By.id("username-reg-password")).clear();

driver.findElement(By.id("username-reg-password")).sendKeys("abccsefczefs");

driver.findElement(By.id("username-reg-yid")).clear();

driver.findElement(By.id("username-reg-yid")).sendKeys("abcdefghijk99sefc");

new Select(driver.findElement(By.id("username-reg-month"))).selectByVisibleText("February");

new Select(driver.findElement(By.id("username-reg-day"))).selectByVisibleText("13");

new Select(driver.findElement(By.id("username-reg-year"))).selectByVisibleText("2002");

driver.findElement(By.id("reg-submit-button")).click();

driver.findElement(By.linkText("Yahoo")).click();

driver.findElement(By.id("yui_3_18_0_4_1461144475639_199")).click();

driver.findElement(By.xpath("//li[@id='yuucs-top-home']/a/b")).click();
}

```

@After

```

public void tearDown() throws Exception {

    driver.quit();

    String verificationErrorString = verificationErrors.toString();

    if (!"".equals(verificationErrorString)) {

        fail(verificationErrorString);

    }

}

private boolean isElementPresent(By by) {

```

```
try {  
    driver.findElement(by);  
    return true;  
} catch (NoSuchElementException e) {  
    return false;  
}  
}
```

```
private boolean isAlertPresent() {  
    try {  
        driver.switchTo().alert();  
        return true;  
    } catch (NoAlertPresentException e) {  
        return false;  
    }  
}
```

```
private String closeAlertAndGetItsText() {  
    try {  
        Alert alert = driver.switchTo().alert();  
        String alertText = alert.getText();  
        if (acceptNextAlert) {  
            alert.accept();  
        } else {  
            alert.dismiss();  
        }  
    }  
}
```

```

    }

    return alertText;

} finally {

    acceptNextAlert = true;

}

}

}

```

////The code to validate the components

Note: Snippets would be in comment as some validation needed Exception while some not. Hence each were tested separately.

```

//import java.awt.List;

import java.io.File;

import java.io.FileInputStream;

import java.io.FileNotFoundException;

import java.io.IOException;

import java.util.List;


import jxl.Workbook;

import jxl.write.WritableWorkbook;


import org.apache.http.HttpResponse;

import org.apache.http.StatusLine;

import org.apache.http.client.HttpClient;

import org.apache.http.client.methods.HttpGet;

import org.apache.http.impl.client.HttpClientBuilder;

import org.apache.poi.xssf.usermodel.XSSFSheet;

```

```
import org.apache.poi.xssf.usermodel.XSSFWorkbook;  
  
import org.openqa.selenium.By;  
  
import org.openqa.selenium.JavascriptExecutor;  
  
import org.openqa.selenium.WebDriver;  
  
import org.openqa.selenium.WebElement;  
  
import org.openqa.selenium.chrome.ChromeDriver;  
  
import org.openqa.selenium.firefox.FirefoxDriver;  
  
import org.openqa.selenium.support.ui.Select;
```

```
public class demo {  
  
    public static void main(String[] args) {
```

```
        WebDriver driver= new FirefoxDriver();  
  
        driver.get("http://www.yahoo.com/");
```

```
        /*
```

```
            // to validate the search box with findElement
```

```
            WebElement searchBox;  
  
            searchBox = driver.findElement(By.id("uh-search-box"));  
  
            searchBox.sendKeys("Software");
```

```
searchBox.submit();
```

```
*/
```

```
// to get number of buttons
```

```
List<WebElement> links =driver.findElements(By.tagName("button"));
```

```
int noButtons=links.size();
```

```
System.out.println("# of buttons in the web page = "+noButtons);
```

```
if(noButtons>0)
```

```
{
```

```
    for(WebElement link:links)
```

```
        System.out.println(link.getText());
```

```
}
```

```
// to find the links on the webpage
```

```
/*    List<WebElement>allLinks=driver.findElements(By.tagName("a"));
```

```
    for(WebElement link:allLinks)
```

```
        System.out.println(link.getText());
```

```
*/
```

```
// to find the broken images or advertisement
```

```
List<WebElement>listimages=driver.findElements(By.tagName("img"));
```

```
        System.out.println("number of images on  
pages"+listimages.size());
```

```
// To validate the sign up page
```

```
/*driver.get("https://login.yahoo.com/account/create?.lang=en-  
US&.intl=us&.src=fpctx&.done=https%3A%2F%2Fwww.yahoo.com&specId=yidReg&altreg=0");
```

```

driver.findElement(By.xpath(".*[@id='username-reg-firstName']")).sendKeys("Prachit");

driver.findElement(By.xpath(".*[@id='username-reg-lastName']")).sendKeys("Kurani");

driver.findElement(By.xpath(".*[@id='username-reg-yid']")).sendKeys("cmpe287");

driver.findElement(By.xpath(".*[@id='username-reg-
password']")).sendKeys("softwareTesting");

driver.findElement(By.xpath(".*[@id='username-reg-phone']")).sendKeys("6692258663");

Select month=new Select(driver.findElement(By.xpath(".*[@id='username-reg-month']")));

    month.selectByIndex(1);

    Select day = new Select(driver.findElement(By.xpath(".*[@id='username-reg-
day']"))));

    day.selectByVisibleText("1");

    Select year = new Select(driver.findElement(By.xpath(".*[@id='username-reg-
year']"))));

    year.selectByValue("1991");

    WebElement continuee;

    continuee = driver.findElement(By.xpath(".*[@id='reg-submit-button']"));

    continuee.submit();

    */

    // To login and validate the checkbox and sign in

    /*

    driver.get("https://login.yahoo.com/config/login?.src=fpctx&.intl=us&.lang=en-
US&.done=https%3A%2F%2Fwww.yahoo.com");

    driver.findElement(By.xpath(".*[@id='login-
username']")).sendKeys("coolprachit_7@yahoo.co.in");

    driver.findElement(By.xpath(".*[@id='persistency']/div") ).click();

```



```

try{

    Thread.sleep(5000);

    driver.findElement(By.xpath("//*[@id='login-signin']")).click();

}catch(Exception e)

{

    System.out.println(e);

}

*/

// to read data from excel and send it the username

/*try{

    FileInputStream files = new FileInputStream(new
File("C:\\Users\\Prachit\\Desktop\\data.xlsx"));

    XSSFWorkbook workbook = new XSSFWorkbook("files");

    XSSFSheet sheet =workbook.getSheetAt(0);

    String st0 =sheet.getRow(0).getCell(0).getStringCellValue();

    String st1 =sheet.getRow(1).getCell(1).getStringCellValue();

    String st2 =sheet.getRow(2).getCell(2).getStringCellValue();


    System.out.println("row 0:" + st0);

    System.out.println("row 1:" + st1);

    System.out.println("row 2:" + st2);

    files.close();

}

catch(FileNotFoundException e){

    e.printStackTrace();

```

```
}catch(IOException ie){  
    ie.printStackTrace();  
}  
*/  
  
// to automate scrolling  
/*JavascriptExecutor js=(JavascriptExecutor)driver;  
js.executeScript("scrollBy(0,2500");  
*/  
}  
  
}
```