



MUMBAI EDUCATIONAL TRUST



MET Institute of Computer Science

M.C.A Semester – III

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| Subject : | MCAL35 Software Testing & Quality Assurance Lab |
| Module: | 5 |
| Date: | 04-11-2022 |

Q. 1) Demonstrate data driven framework (use excel file for test data) for login form of <https://opensource.demo.orangehrmlive.com/> using Selenium webdriver.

Source code:

DemoCheck.java

```
package programs;
```

```
import java.io.FileInputStream;  
import java.io.FileNotFoundException;  
import java.io.IOException;  
import java.util.concurrent.TimeUnit;
```

```
import org.apache.commons.collections4.Unmodifiable;
```

```

import org.apache.poi.xssf.usermodel.XSSFCell;
import org.apache.poi.xssf.usermodel.XSSFRow;
import org.apache.poi.xssf.usermodel.XSSFSheet;
import org.apache.poi.xssf.usermodel.XSSFWorkbook;
import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.chrome.ChromeDriver;

public class DemoWrite {

    public static void main(String[] args) throws IOException, InterruptedException {
        // TODO Auto-generated method stub

        System.setProperty("webdriver.chrome.driver", "C:\\Selenium\\chromedriver.exe");

        WebDriver wd = new ChromeDriver();
        wd.get("https://opensource-demo.orangehrmlive.com/web/index.php/auth/login");
        wd.manage().timeouts().implicitlyWait(10, TimeUnit.SECONDS);
        FileInputStream fis = new FileInputStream("C:\\Selenium\\DemoExcel.xlsx");
        XSSFWorkbook wb = new XSSFWorkbook(fis);
        XSSFSheet st = wb.getSheet("Sheet1");
        for(int i=1;i<=st.getLastRowNum();i++)
        {
            XSSFRow rw = st.getRow(i);
            XSSFCell un = rw.getCell(0);
            XSSFCell pd = rw.getCell(1);
            System.out.println("username-->" + un);
            System.out.println("password-->" + pd);

            wd.findElement(By.name("username")).sendKeys(un.toString());
            wd.findElement(By.name("password")).sendKeys(pd.toString());
            wd.findElement(By.cssSelector("button[type=submit]")).click();

            Thread.sleep(2000);

            wd.findElement(By.xpath("//*[@id=\"app\"]/div[1]/div[1]/header/div[1]/div[2]/ul/li/span")).click();
            Thread.sleep(2000);
            wd.findElement(By.linkText("Logout")).click();
            wd.quit();
        }
    }
}

```

```

    }
    wb.close();

}

}

```

Output:

```

Demoscheck [Java Application] C:\Users\helpdesk\p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x
ERROR StatusLogger Log4j2 could not find a logging implementation.
username-->Admin
password-->admin123
Starting ChromeDriver 105.0.5195.52 (412c95e518836d8a7d97250d62b29c
Only local connections are allowed.
Please see https://chromedriver.chromium.org/security-consideration
ChromeDriver was started successfully.

```

Q. 2) Demonstrate data driven framework (use excel file for test data) for login form of <https://opensource.demo.orangehrmlive.com/> and write the result of test case in the data file. IF the login is successful then display test result as “Valid” otherwise “Invalid”

Source code:

ValidInvalidDemo.java

```

package programs;

import java.io.FileInputStream;
import java.io.FileNotFoundException;
import java.io.FileOutputStream;
import java.io.IOException;
import java.util.concurrent.TimeUnit;

import org.apache.poi.xssf.usermodel.XSSFCell;
import org.apache.poi.xssf.usermodel.XSSFRow;
import org.apache.poi.xssf.usermodel.XSSFSheet;
import org.apache.poi.xssf.usermodel.XSSFWorkbook;

```

```

import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.chrome.ChromeDriver;

public class ValidInvalidDemo {

    public static void main(String[] args) throws IOException, InterruptedException {
        // TODO Auto-generated method stub
        System.setProperty("webdriver.chrome.driver", "C:\\Selenium\\chromedriver.exe");

        WebDriver wd = new ChromeDriver();
        wd.get("https://opensource-demo.orangehrmlive.com/web/index.php/auth/login");
        wd.manage().timeouts().implicitlyWait(10, TimeUnit.SECONDS);
        FileInputStream fis = new FileInputStream("C:\\Selenium\\Dem.xlsx");
        XSSFWorkbook wb = new XSSFWorkbook(fis);
        XSSFSheet st= wb.getSheet("Sheet1");
        for(int i=1;i<=st.getLastRowNum();i++)
        {
            XSSFRow rw = st.getRow(i);
            XSSFCell un = rw.getCell(0);
            XSSFCell pd = rw.getCell(1);
            XSSFCell res = rw.createCell(2);
            System.out.println("username-->" + un);
            System.out.println("password-->" + pd);

            wd.findElement(By.name("username")).sendKeys(un.toString());
            wd.findElement(By.name("password")).sendKeys(pd.toString());
            wd.findElement(By.cssSelector("button[type=submit]")).click();

            try
            {
                Thread.sleep(2000);

                wd.findElement(By.xpath("//*[@id=\"app\"]/div[1]/div[1]/header/div[1]/div[2]/ul/li/span")).click();
                Thread.sleep(2000);
                wd.findElement(By.linkText("Logout")).click();
                System.out.println("Pass");
                res.setCellValue("valid");

            }
        }
    }
}

```

```

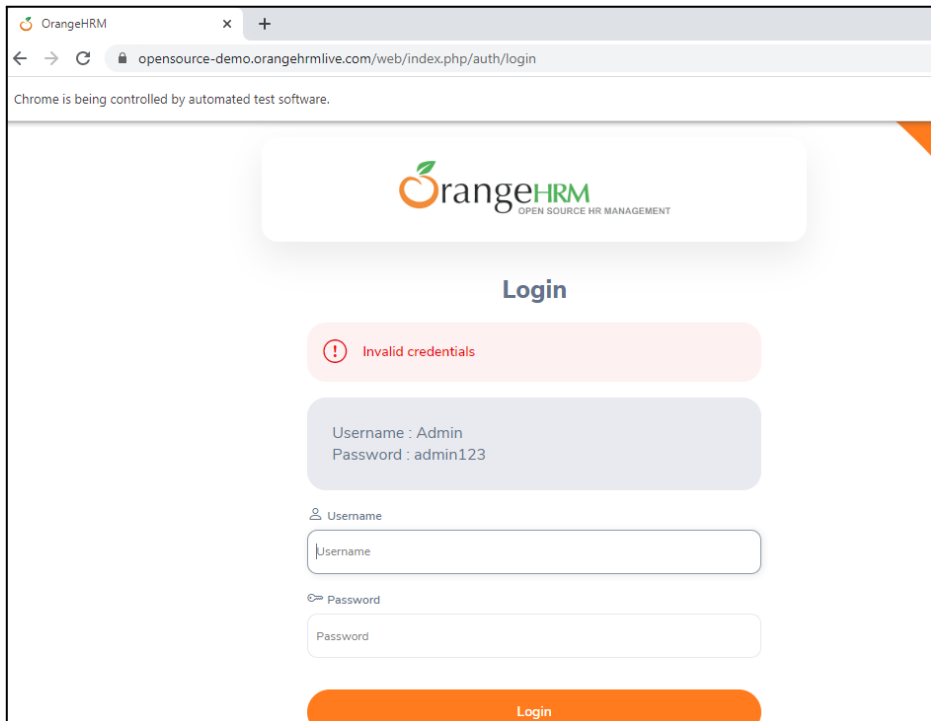
        catch(Exception ex)
        {
            System.out.println("Fail");
            res.setCellValue("Invalid");
        }
    }

    FileOutputStream fod = new FileOutputStream("C:\\Selenium\\Dem.xlsx");
    wb.write(fod);
    fod.close();
    wd.close();

}
}

```

Output:



Before Testing

Dem.xlsx (read-only) - OpenOffice Calc

File Edit View Insert Format Tools Data Window Help

E10

| | A | B | C | D | E | F |
|----|----------|----------|--------|---|---|---|
| 1 | username | password | result | | | |
| 2 | Admin | admin123 | | | | |
| 3 | adm | admin123 | | | | |
| 4 | Admin | adm | | | | |
| 5 | adm | adm | | | | |
| 6 | | | | | | |
| 7 | | | | | | |
| 8 | | | | | | |
| 9 | | | | | | |
| 10 | | | | | | |
| 11 | | | | | | |
| 12 | | | | | | |

After Testing

Dem.xlsx - OpenOffice Calc

File Edit View Insert Format Tools Data Window Help

Calibri 11 B I U

E10

| | A | B | C | D | E | F |
|----|----------|----------|---------|---|---|---|
| 1 | username | password | result | | | |
| 2 | Admin | admin123 | valid | | | |
| 3 | adm | admin123 | Invalid | | | |
| 4 | Admin | adm | Invalid | | | |
| 5 | adm | adm | Invalid | | | |
| 6 | | | | | | |
| 7 | | | | | | |
| 8 | | | | | | |
| 9 | | | | | | |
| 10 | | | | | | |
| 11 | | | | | | |
| 12 | | | | | | |

```

Problems @ Javadoc Declaration Console X
<terminated> ValidInvalidDemo [Java Application] C:\Users\mcamock\p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64.jre\bin\java.exe
ChromeDriver was started successfully.
Nov 04, 2022 1:02:10 PM org.openqa.selenium.remote.ProtocolHandshake createSession
INFO: Detected dialect: W3C
ERROR StatusLogger Log4j2 could not find a logging implementation. Please add the Log4j2 core to the classpath.
username-->Admin
password-->admin123
Pass
username-->adm
password-->admin123
Fail
username-->Admin
password-->adm
Fail
username-->adm
password-->adm
Fail
[1667547190.768][WARNING]: Timed out connecting to Chrome, retrying...
[1667547198.870][WARNING]: Timed out connecting to Chrome, retrying...

```

