**Module 8**

**Q.1** W.a.framework program for data driven framework -to get value from the excel and check into your website.

Ans.

**Excel Reader**

package excel;

import java.io.IOException;

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

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

import org.openxmlformats.schemas.spreadsheetml.x2006.main.WorksheetDocument;

public class excelReaderClass {

String Filepath, Sheetname;

public excelReaderClass(String Filepath,String Sheetname) {

super();

this.Filepath = Filepath;

this.Sheetname = Sheetname;

}

public int rowCount() {

int i = 0;

try {

XSSFWorkbook workBook = new XSSFWorkbook(Filepath);

XSSFSheet workSheet = workBook.getSheet(Sheetname);

i = workSheet.getPhysicalNumberOfRows();

} catch (IOException e) {

e.printStackTrace();

}

return i;

}

public int colCount() {

int i = 0;

try {

XSSFWorkbook workBook = new XSSFWorkbook(Filepath);

XSSFSheet workSheet = workBook.getSheet(Sheetname);

i = workSheet.getRow(0).getPhysicalNumberOfCells();

} catch (IOException e) {

e.printStackTrace();

}

return i ;

}

public String getData(int row, int col) {

String data = null;

try {

XSSFWorkbook workBook = new XSSFWorkbook(Filepath);

XSSFSheet workSheet = workBook.getSheet(Sheetname);

data = workSheet.getRow(row).getCell(col).getStringCellValue();

} catch (IOException e) {

e.printStackTrace();

}

return data;

}

}

🡪 **data driven**

package excel;

import org.openqa.selenium.By;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.WebElement;

import org.testng.annotations.BeforeClass;

import org.testng.annotations.DataProvider;

import org.testng.annotations.Test;

import util.DriverConnection;

public class Q1 {

WebDriver driver;

*@BeforeClass*

public void openBrowser() {

driver = DriverConnection.*getDriver*();

driver.get("https://automationexercise.com/login");

}

*@Test*(dataProvider = "dp")

public void loginTest(String email,String pass ) throws InterruptedException {

System.***out***.println(email + " : " + pass);

WebElement emailEle = driver.findElement(By.*name*("email"));

emailEle.clear();

emailEle.sendKeys(email);

WebElement passEle = driver.findElement(By.*name*("password"));

passEle.clear();

passEle.sendKeys(pass);

Thread.*sleep*(3000);

}

*@DataProvider*(name = "dp")

public static Object[][] data(){

excelReaderClass ex = new excelReaderClass("C:\\Users\\takus\\OneDrive\\Documents\\ExcelPractice.xlsx", "login");

int row = ex.rowCount();

int col = ex.colCount();

Object obj[][] = new Object[row - 1][col];

for(int i=1;i<row;i++) {

for(int c=0;c<col;c++) {

String data = ex.getData(i, c);

obj [i-1][c] = data;

}

}

return obj;

}

}

Q.2 W.a.framework program for keyword driven framework -given below keyword which you get from the Excel and check into youwebsite

Ans.

**Excel Reader**

package excel;

import java.io.IOException;

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

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

import org.openxmlformats.schemas.spreadsheetml.x2006.main.WorksheetDocument;

public class excelReaderClass {

String Filepath, Sheetname;

public excelReaderClass(String Filepath,String Sheetname) {

super();

this.Filepath = Filepath;

this.Sheetname = Sheetname;

}

public int rowCount() {

int i = 0;

try {

XSSFWorkbook workBook = new XSSFWorkbook(Filepath);

XSSFSheet workSheet = workBook.getSheet(Sheetname);

i = workSheet.getPhysicalNumberOfRows();

} catch (IOException e) {

e.printStackTrace();

}

return i;

}

public int colCount() {

int i = 0;

try {

XSSFWorkbook workBook = new XSSFWorkbook(Filepath);

XSSFSheet workSheet = workBook.getSheet(Sheetname);

i = workSheet.getRow(0).getPhysicalNumberOfCells();

} catch (IOException e) {

e.printStackTrace();

}

return i ;

}

public String getData(int row, int col) {

String data = null;

try {

XSSFWorkbook workBook = new XSSFWorkbook(Filepath);

XSSFSheet workSheet = workBook.getSheet(Sheetname);

data = workSheet.getRow(row).getCell(col).getStringCellValue();

} catch (IOException e) {

e.printStackTrace();

}

return data;

}

}

🡪 **data driven**

package excel;

import org.openqa.selenium.By;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.WebElement;

import org.testng.annotations.BeforeClass;

import org.testng.annotations.DataProvider;

import org.testng.annotations.Test;

import util.DriverConnection;

public class Q2 {

WebDriver driver;

*@BeforeClass*

public void openBrowser() {

driver = DriverConnection.*getDriver*();

driver.get("https://automationexercise.com/login");

}

*@Test*(dataProvider = "dp")

public void loginTest(String Email,String Password ) throws InterruptedException {

System.***out***.println(Email + " : " + Password);

WebElement emailEle = driver.findElement(By.*name*("email"));

emailEle.clear();

emailEle.sendKeys(Email);

WebElement passEle = driver.findElement(By.*name*("password"));

passEle.clear();

passEle.sendKeys(Password);

Thread.*sleep*(3000);

}

*@DataProvider*(name = "dp")

public static Object[][] data(){

excelReaderClass ex = new excelReaderClass("C:\\Users\\takus\\OneDrive\\Documents\\ExcelPractice.xlsx", "Second");

int row = ex.rowCount();

int col = ex.colCount();

Object obj[][] = new Object[row - 1][col];

for(int i=1;i<row;i++) {

for(int c=0;c<col;c++) {

String data = ex.getData(i, c);

obj [i-1][c] = data;

}

}

return obj;

}

}

Q.3 W.a.framework program for hybrid driven framework -given below keyword and Data both which you get from the Excel andcheck into you website

Ans.

package hybrid;

import java.io.FileInputStream;

import java.io.IOException;

import java.util.Iterator;

import org.apache.poi.ss.usermodel.Cell;

import org.apache.poi.ss.usermodel.Row;

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

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

public class Q3 {

public static void getData() throws IOException {

//to read Any file (to see if file exist at location)

FileInputStream fis = new FileInputStream("C:\\Users\\takus\\OneDrive\\Documents\\ExcelPractice.xlsx");

System.***out***.println(fis);

// to read data from that excel file

XSSFWorkbook workSheet = new XSSFWorkbook(fis);

System.***out***.println(workSheet);

// to check number of sheets available in file

int sheets = workSheet.getNumberOfSheets();

System.***out***.println(sheets);

for(int i = 0; i<sheets; i++) {

if(workSheet.getSheetName(i).equalsIgnoreCase("Second")) {

System.***out***.println(true);

XSSFSheet sheet = workSheet.getSheetAt(i);

// to read single sheet

// identify ID column by scanning the entire 1st row

Iterator<Row> rows = sheet.rowIterator();

System.***out***.println(rows);

// to fetch particular row

Row firstRow = rows.next();

System.***out***.println("first row : "+firstRow.toString());

Iterator<Cell> ce = firstRow.cellIterator();

System.***out***.println("cells : "+ce.toString());

int k = 0;

int column =0;

while(ce.hasNext()) {

Cell value = ce.next();

System.***out***.println("cell value : "+value);

if(value.getRichStringCellValue().equals("Email")) {

column = k;

}

k++;

}

System.***out***.println(column);

}

}

}

public static void main(String[] args) throws IOException {

*getData*();

}

}

Q.4 W.a.maven program to create simple webdriver Program

Ans.

package basic;

import java.util.List;

import org.openqa.selenium.By;

import org.openqa.selenium.JavascriptExecutor;

import org.openqa.selenium.Keys;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.WebDriver.Window;

import org.openqa.selenium.WebElement;

import org.openqa.selenium.interactions.Actions;

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

public class demoQA {

public static void main(String[] args) throws InterruptedException {

String url = "https://demoqa.com/automation-practice-form";

WebDriver driver = new DriverConnection().getDriver(url);

Thread.sleep(2000);

JavascriptExecutor js = (JavascriptExecutor)driver;

js.executeScript("window.scrollBy(0,100)");

WebElement firstname = driver.findElement(By.id("firstName"));

firstname.sendKeys("Pragnesh");

WebElement lastname = driver.findElement(By.id("lastName"));

lastname.sendKeys("Sharma");

WebElement email = driver.findElement(By.id("userEmail"));

email.sendKeys("taku2312@yahoo.com");

WebElement gender = driver.findElement(By.xpath("//\*[@id=\"genterWrapper\"]/div[2]/div[1]/label"));

gender.click();

WebElement num = driver.findElement(By.id("userNumber"));

num.sendKeys("9724748955");

WebElement calender = driver.findElement(By.id("dateOfBirthInput"));

calender.click();

WebElement month = driver.findElement(By.xpath("//\*[@id=\"dateOfBirth\"]/div[2]/div[2]/div/div/div[2]/div[1]/div[2]/div[1]/select"));

Select months = new Select (month);

months.selectByIndex(10);

WebElement year = driver.findElement(By.xpath("//\*[@id=\"dateOfBirth\"]/div[2]/div[2]/div/div/div[2]/div[1]/div[2]/div[2]/select"));

Select years = new Select(year);

years.selectByValue("2019");

WebElement date = driver.findElement(By.xpath("//\*[@id=\"dateOfBirth\"]/div[2]/div[2]/div/div/div[2]/div[2]/div[4]/div[4]"));

date.click();

WebElement subjects = driver.findElement(By.id("subjectsContainer"));

Actions action = new Actions(driver);

action.click(subjects).sendKeys("ma").sendKeys(Keys.ARROW\_DOWN).sendKeys(Keys.ENTER).build().perform();

// action.click(subjects).sendKeys("p").sendKeys(Keys.ARROW\_DOWN).sendKeys(Keys.ENTER).build().perform();

WebElement hobbies =

driver.findElement(By.xpath("//\*[@id=\"hobbiesWrapper\"]/div[2]/div[1]/label"

)); hobbies.click();

WebElement hobbies1 =

driver.findElement(By.xpath("//\*[@id=\"hobbiesWrapper\"]/div[2]/div[2]/label"

)); hobbies1.click();

WebElement hobbies2 =

driver.findElement(By.xpath("//\*[@id=\"hobbiesWrapper\"]/div[2]/div[3]/label"

)); hobbies2.click();

Thread.sleep(3000);

driver.close();

}

}

Q.5 W.a.maven program to create Junit with webdriver Program

Ans.

package junit;

import java.util.Arrays;

import java.util.List;

import org.junit.AfterClass;

import org.junit.BeforeClass;

import org.junit.Test;

import org.junit.runner.RunWith;

import org.junit.runners.Parameterized;

import org.junit.runners.Parameterized.Parameters;

import org.openqa.selenium.By;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.WebElement;

@RunWith(Parameterized.class)

public class P08\_Q13\_FBloginPArameters {

String email;

String password;

public P08\_Q13\_FBloginPArameters(String email,String password) {

this.email=email;

this.password=password;

}

static WebDriver driver;

@BeforeClass

// for opening every combination in single chrome driver

public static void brforeClass() {

driver = new DriverConnnection().getDriver();

driver.get("https://www.facebook.com/");

}

// @AfterClass

// public static void afterClass() {

// driver.close();

// }

@Test

public void FBlogin() throws InterruptedException {

// For opening in new chrome driver with each new combination

// WebDriver driver = new DriverConnnection().getDriver();

// driver.get("https://www.facebook.com/");

WebElement emailEle = driver.findElement(By.id("email"));

emailEle.clear();

emailEle.sendKeys(email);

Thread.sleep(1000);

WebElement passwordEle = driver.findElement(By.id("pass"));

passwordEle.clear();

passwordEle.sendKeys(password);

Thread.sleep(1000);

WebElement login = driver.findElement(By.name("login"));

login.click();

}

@Parameters

public static List<Object[]> getData() {

Object[][] obj = new Object[4][2];

obj[0][0] = "heyincorrect@gmail.com";

obj[0][1] = "heyincorrect@123";

obj[1][0] = "hello123incorrect@gmail.com";

obj[1][1] = "hello12correct@456";

obj[2][0] = "holaa123correct@gmail.com";

obj[2][1] = "holaa23incorrect@123";

obj[3][0] = "8155887857";

obj[3][1] = "correctPassword";

return Arrays.asList(obj);

}

}

Q.6 W.a.maven program to create TestNG with Webdriver Program.

Ans.

package assignment;

import org.testng.annotations.Test;

public class Q18 {

*@Test* (groups = "first")

public void shoppingUserRegistration() {

System.***out***.println("User Registration");

}

*@Test*(groups = {"buy","first"})

public void UserLogin() {

System.***out***.println("User login");

}

*@Test*(groups = "first")

public void UserPurchaseDirect() {

System.***out***.println("purchase successful");

}

*@Test*(groups = "buy")

public void AddToCart() {

System.***out***.println("added to cart");

}

*@Test*

public void AddtoWishlist() {

System.***out***.println("Added to wishlist");

}

*@Test*

public void sortProduct() {

System.***out***.println("sorted product");

}

*@Test*(groups = "buy")

public void FilterProduct() {

System.***out***.println("product filtered");

}

*@Test*(groups = "first")

public void payViaDebitCard() {

System.***out***.println("debit card payment");

}

*@Test*

public void payViaCreditCard() {

System.***out***.println("credit card payment");

}

*@Test*(groups = "buy")

public void payViaUPI() {

System.***out***.println("UPI payment");

}

}

Xml file ->

<?xml version="1.0" encoding="UTF-8"?>

<!DOCTYPE suite SYSTEM "https://testng.org/testng-1.0.dtd">

<suite name="Suite">

<test thread-count="5" name="Test">

<groups>

<run>

<include name="first"/>

<include name="buy"/>

</run>

</groups>

<classes>

<class name="assignment.Q18"/>

</classes>

</test> <!-- Test -->

</suite> <!-- Suite -->