**Advanced Selenium Assessment Test**

1 ) URL : <https://demoqa.com/automation-practice-form>

Task 1 : Write script to fill this form using selenium webdriver.

Task 2 : Write script to take screenshot of filled form

**Ans.**

package basic;

import java.io.File;

import java.util.List;

import org.apache.commons.io.FileUtils;

import org.openqa.selenium.By;

import org.openqa.selenium.JavascriptExecutor;

import org.openqa.selenium.Keys;

import org.openqa.selenium.OutputType;

import org.openqa.selenium.TakesScreenshot;

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 getScreenshot(WebDriver driver, String path) {

TakesScreenshot ss = (TakesScreenshot) driver;

File source = ss.getScreenshotAs(OutputType.***FILE***);

File destination = new File(path);

try {

FileUtils.*copyFile*(source, destination);

System.***out***.println("SS taken successfully");

}

catch (Exception e) {

e.printStackTrace();

// **TODO**: handle exception

}

}

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(0,300)");

js.executeScript("window.scrollBy(0,document.body.scrollHeight)");

Thread.*sleep*(2000);

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");

Thread.*sleep*(2000);

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");

Thread.*sleep*(2000);

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

calender.click();

Thread.*sleep*(2000);

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();

Thread.*sleep*(2000);

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();

Thread.*sleep*(2000);

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*(2000);

WebElement choosefile = driver.findElement(By.*id*("uploadPicture"));

choosefile.sendKeys("C:\\Users\\takus\\OneDrive\\Documents\\ExcelPractice.xlsx");

WebElement address = driver.findElement(By.*id*("currentAddress"));

address.sendKeys("Karmvir society,Nadiad");

Thread.*sleep*(2000);

WebElement state = driver.findElement(By.*id*("state"));

WebElement city = driver.findElement(By.*id*("city"));

// Actions action1 = new Actions(driver);

action.click(state).sendKeys(*Keys*.***ARROW\_DOWN***.***ENTER***).build().perform();

action.click(city).sendKeys(*Keys*.***ARROW\_DOWN***.***ENTER***).build().perform();

Thread.*sleep*(3000);

*getScreenshot*(driver, "D:\\Pragnesh Software Testing\\Automation Screenshot\\demoQA.jpg");

driver.close();

}

}

2 ) URL : <http://www.techlistic.com/2017/02/automate-demo-web-table-withselenium.html>

Task 1 : Verify that there are only 4 structure values present in the table with Selenium

Task 2 : Verify that the 6th row of the table (Last Row) has only two columns with Selenium

Task 3 : Find the tallest structure in the table with Selenium

**Ans.**

package basic;

import java.util.Iterator;

import java.util.List;

import org.openqa.selenium.By;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.WebElement;

public class Assessment\_Q2 {

public static void main(String[] args) {

String url = "https://www.techlistic.com/2017/02/automate-demo-web-table-with-selenium.html";

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

WebElement table = driver.findElement(By.xpath("//\*[@id=\"post-body-1325137018292710854\"]/div[1]/div[1]/div[5]/table"));

List<WebElement> rows = table.findElements(By.tagName("tr"));

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

List<WebElement> cols = table.findElements(By.tagName("td"));

System.out.println(cols.size());

for(int i =1;i<=rows.size();i++) {

for(int j=1;j<=cols.size();j++) {

WebElement all = driver.findElement(By.xpath("//\*[@id=\"post-body-1325137018292710854\"]/div[1]/div[1]/div[5]/table"));

System.out.print(all.getText()+ " : ");

}

System.out.println();

}

WebElement burjKhalifaRow = driver.findElement(By.xpath("//\*[@id=\"post-body-1325137018292710854\"]/div[1]/div[1]/div[5]/table/tbody/tr[1]/th"));

String burjKhalifaHeight = burjKhalifaRow.findElement(By.xpath("//\*[@id=\"post-body-1325137018292710854\"]/div[1]/div[1]/div[5]/table/tbody/tr[1]")).getText();

assert burjKhalifaHeight.equals("829m");

WebElement lastRow = table.findElement(By.xpath("//\*[@id=\"post-body-1325137018292710854\"]/div[1]/div[1]/div[5]/table/tfoot/tr"));

List<WebElement> columns = lastRow.findElements(By.tagName("td"));

// Verify that there are only two columns in the last row

assert columns.size() == 2;

driver.close();

}

}

3 ) URL : https://demoqa.com/webtables

Task 1 : Write a script to click on Edit button for given name

Task 2 : Write a Script to click on Delete button for given name

**Ans.**

package basic;

import org.openqa.selenium.By;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.WebElement;

import org.openqa.selenium.interactions.Actions;

public class Assessment\_Q3 {

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

String url = "https://demoqa.com/webtables";

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

WebElement edit = driver.findElement(By.*id*("edit-record-1"));

Actions action = new Actions(driver);

action.moveToElement(edit).click().build().perform();

Thread.*sleep*(3000);

WebElement name = driver.findElement(By.*xpath*("//\*[@id=\"firstName\"]"));

name.clear();

name.sendKeys("Pragnesh");

WebElement submit = driver.findElement(By.*id*("submit"));

submit.click();

Thread.*sleep*(3000);

WebElement delete = driver.findElement(By.*id*("delete-record-2"));

action.moveToElement(delete).click().build().perform();

}

}

4) URL : http://www.demo.guru99.com/V4/

The following test case needs to be automated

Steps to get access to Test Site

1. Visit - <http://demo.guru99.com/>

2. Enter your email id

3. Login credentials is allocated to you and mailed at your id

Task 1 : verify that test pass or fail

Task 2 : Parameterised your script using testing and take input from excel sheet

Task 3 : Take screenshot for Failed test cases

Ans.

package excel;

import static org.testng.Assert.*assertEquals*;

import java.io.File;

import org.openqa.selenium.By;

import org.openqa.selenium.OutputType;

import org.openqa.selenium.TakesScreenshot;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.WebElement;

import org.testng.ITestContext;

import org.testng.ITestResult;

import org.testng.annotations.AfterTest;

import org.testng.annotations.BeforeClass;

import org.testng.annotations.DataProvider;

import org.testng.annotations.Test;

import util.DriverConnection;

public class Assessment\_Q4 {

WebDriver driver;

// @BeforeClass

// public void openBrowser() {

// driver = DriverConnection.getDriver();

// driver.get("https://www.demo.guru99.com/V4/");

// }

*@Test* (dataProvider = "credentials")

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

driver = DriverConnection.*getDriver*();

driver.get("https://www.demo.guru99.com/V4/");

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

WebElement emailElement = driver.findElement(By.*name*("uid"));

emailElement.clear();

emailElement.sendKeys(Email);

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

passElement.clear();

passElement.sendKeys(Password);

Thread.*sleep*(3000);

WebElement loginBtn = driver.findElement(By.*name*("btnLogin"));

loginBtn.click();

}

*@AfterTest*

public void testResult(ITestResult result) {

if(ITestResult.***FAILURE***==result.getStatus()) {

try {

TakesScreenshot ss = (TakesScreenshot) driver;

File source = ss.getScreenshotAs(OutputType.***FILE***);

File destination = new File("D:\\Pragnesh Software Testing\\Automation Screenshot\\AssessmentQ4.jpg");

System.***out***.println("successfully taken the screenshot");

} catch (Exception e) {

e.printStackTrace();

System.***out***.println("Exception while taking screenshot "+e.getMessage());

}

}

}

*@DataProvider*(name = "credentials")

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;

}

}