Selenium上机实验报告

1. 实验要求：

编写Selenium Java WebDriver程序，测试input.xlsx表格中的学号和git地址的对应关系是否正确。

1. 实验要点：

要求会使用SeleniumIDE进行录制和导出脚本

1. 实验过程：
2. 安装Firefox Setup 40.0版本
3. 登录https://addons.mozilla.org/en-US/firefox/addon/selenium-ide/，点击Add to Firefox，当Add to Firefox无法点击时，可以在最下面找到：自动匹配当前版本Selenium
4. 右击Firefox页面顶部空白区域，选择菜单栏
5. 点击工具栏，可以看到Selenium IDE。安装完成
6. 打开SeleniumIDE进行录制，然后导出
7. 进行部分修改以完成实验目的
8. 实验代码：

package loginin;

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;

import java.io.FileInputStream;

import java.io.IOException;

import java.io.InputStream;

import java.text.DecimalFormat;

import java.util.ArrayList;

import java.util.List;

import java.nio.charset.Charset;

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

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;

public class test {

private WebDriver driver;

private String baseUrl;

private boolean acceptNextAlert = true;

private StringBuffer verificationErrors = new StringBuffer();

String val = null;

static String id;

static String github;

DecimalFormat df = new DecimalFormat("0");

static List<ArrayList<String>> strLists = new ArrayList<ArrayList<String>>();

public void getValues(String filePath )

{

try{

InputStream is = new FileInputStream(filePath);

XSSFWorkbook xwb = new XSSFWorkbook(is);

XSSFSheet sheet = xwb.getSheetAt(0);

strLists.clear();

for (int i = sheet.getFirstRowNum(); i < sheet.getPhysicalNumberOfRows(); i++) {

List<String> strList = new ArrayList<String>();

XSSFRow row = sheet.getRow(i);

int colNum = row.getPhysicalNumberOfCells();

for (int j = 0; j < colNum; j++) {

XSSFCell cell = row.getCell(j);

strList.add(getXCellVal(cell));

}

strLists.add(i, (ArrayList<String>) strList);

}

}catch(Exception e) {

System.out.println("已运行xlRead() : " + e );

}

}

private String getXCellVal(XSSFCell cell) {

switch (cell.getCellType()) {

case XSSFCell.CELL\_TYPE\_NUMERIC:

val = df.format(cell.getNumericCellValue());

break;

case XSSFCell.CELL\_TYPE\_STRING:

val = cell.getStringCellValue();

break;

case XSSFCell.CELL\_TYPE\_BLANK: //空白

val = cell.getStringCellValue();

break;

}

return val;

}

@Before

public void setUp() throws Exception {

driver = new FirefoxDriver();

baseUrl = "https://psych.liebes.top/";

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

}

@Test

public void testCeshi() throws Exception {

String filePath="C:\\Users\\lenovo\\Desktop\\软件测试技术\\input.xlsx";

test er = new test();

er.getValues(filePath);

for (int i = 0 ; i < strLists.size(); i++) {

id = strLists.get(i).get(0);

github = strLists.get(i).get(1);

String getpwd = id.substring(4,10);

driver.get(baseUrl + "/st");

driver.findElement(By.id("password")).clear();

driver.findElement(By.id("password")).sendKeys("");

driver.findElement(By.id("username")).clear();

driver.findElement(By.id("username")).sendKeys(id);

driver.findElement(By.id("password")).clear();

driver.findElement(By.id("password")).sendKeys(getpwd);

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

if (github

.equals(driver

.findElement(By.cssSelector("p.login-box-msg"))

.getText().trim())){

System.out.println(id + " "+"success"+" "+github);

}

else{

System.out.println(id + " "+"fail"+" "+github);

}

}

}

@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;

}

}

}

### 实验结果：

