# 软件测试上机报告



第二次上机作业

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#### 一、实验要求

#### Tasks:

- 1. Install Selenium with Eclipse.
- 2. Install Firefox and SeleniumIDE plugin.
- 3. Try to record and export scripts using SeleniumIDE.
- 4. Please complete the following task using Selenium Webdriver: "Selenium Lab2020.xlsx" contains information about the students, and https://103.120.226.190/selenium-demo/git-repo can view someone's information after logging in (student id as username, git address as password). Please check each record in the excel to make sure that each student's information is consistent with the information on the website.

#### Requirements for the experiment:

- Finish the tasks above individually.
- 2. Check in your java code to Github or gitee
- 3. Please send your experiment report to 智慧树, the following information should be included in your report:
- a) The brief description that you install Selenium, Firefox, and SeleniumIDE.
- b) Steps for recording and exporting scripts.
- c) Steps for testing the website using Selenium.

#### 二、源代码

```
public static void main(String[] args) throws IOException {
    String filename=System.getProperty("user.dir")+"/Selenium+Lab2020.xlsx";
String driverPath = System.getProperty("user.dir") +"/src/resources/driver/chromedriver.exe";
    System.setProperty("webdriver.chrome.driver", driverPath);
    WebDriver driver=new ChromeDriver();
    //二、定义要访问的网址
    String baseUrl = "http://103.120.226.190/selenium-demo/git-repo";
    driver.get(baseUrl);
    InputStream is =null;
    Workbook workbook=null;
    is =new FileInputStream(filename);
    if(filename.endsWith(".xlsx")) {
         workbook=new XSSFWorkbook(is);
     }else if (filename.endsWith(".xls")) {
         workbook=new HSSFWorkbook(is);
    is.close();
    //读取sheet表的内容
    Sheet sheet=workbook.getSheetAt(0);
    //获取行
    Iterator<Row> rows= sheet.rowIterator();
    Row row;
    Cell cell;
    int row max=20;
    String user_name=null;
    String pass_word=null;
    for(int i=0;i<row_max;i++) {</pre>
         WebElement username=driver.findElement(By.name("user number"));
         WebElement password=driver.findElement(By.name("password"));
      for(int i=0;i<row_max;i++) {</pre>
          WebElement username=driver.findElement(By.name("user_number"));
WebElement password=driver.findElement(By.name("password"));
WebElement btn=driver.findElement(By.name("html/body/div/div/div/div/div/div/div/form/div[3]/input"));
          if(rows.hasNext()) {
              row=rows.next();
Iterator<Cell> cells=row.cellIterator();
              if(cells.hasNext()) {
                  cell=cells.next();
user_name=cell.getStringCellValue();
                   cell=cells.next();
                   pass_word=cell.getStringCellValue();
              }
          username.sendKeys(user_name);
          password.sendKeys(pass_word);
          WebElement result=driver.findElement(By.xpath("/html/body/div/div/div/div/div/div/div/div/form/div[5]/code"));
          if(result.getText().equals(pass_word)) {
    System.out.println("匹配成功");
          }
      driver.close();
```

### 三、运行结果

1.selenium IDE(chrome 浏览器) - 🗆 × 不安全 | 103.120.226.190/selenium-demo/git-repo Project: 51\* + ▷ □ □ □ Q http://103.120.226.190 Command Selenium Git-Repo Demo send kevs 3017218053 3017218053 send keys https://gitee.c tware\_test.git Log Reference 19:33:34 19:33:34 3. sendKeys on name=user number with value 3017218053 OK 19:33:35 19:33:36 2.selenium webdriver enium-Demo Git-Repo × + 快速访问 🖻 😢 🐉 で ○ 不安全 | 103.120.226.190/selen B 正受到自动测试软件的控制。 Selenium Git-Repo Demo v/div/div/div/div/div[2]/div/form/div[5]/code"));

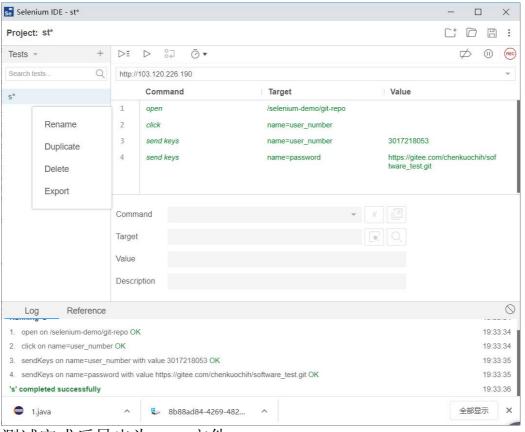
## 四、简要说明

1. 下载 chrome 的 seleniumide 扩展



#### 并进行构建

2.分别选中用户名和密码部分,选择 send keys 的命令,填入 xlsx 中的内容。



#### 测试完成后导出为 java 文件。

```
6 import static org.namcrest.corematchers.is
7 import static org.hamcrest.core.IsNot.not;
 8import org.openqa.selenium.By;
 9 import org.openqa.selenium.WebDriver;
10 import org.openqa.selenium.firefox.FirefoxDriver;
llimport org.openqa.selenium.chrome.ChromeDriver;
l2import org.openqa.selenium.remote.RemoteWebDriver;
13 import org.openqa.selenium.remote.DesiredCapabilities;
14 import org.openqa.selenium.Dimension;
15 import org.openqa.selenium.WebElement;
16 import org.openqa.selenium.interactions.Actions;
{\tt 17}\, {\tt import}\, \, {\tt org.openqa.selenium.support.ui.ExpectedConditions;}
18 import org.openqa.selenium.support.ui.WebDriverWait;
19 import org.openqa.selenium.JavascriptExecutor;
20 import org.openqa.selenium.Alert;
211mport org.openqa.selenium.Keys;
22 import java.util.*;
23 import java.net.MalformedURLException;
24 import java.net.URL;
25 public class STest {
26  private WebDriver driver;
     private Map<String, Object> vars;
JavascriptExecutor js;
27
      @Before
     public void setUp() {
  driver = new ChromeDriver();
30
32
        js = (JavascriptExecutor) driver;
        vars = new HashMap<String, Object>();
33
35
36
37
38
      @After
     public void tearDown() {
        driver.quit();
39
     public void s() {
  driver.get("http://103.120.226.190/selenium-demo/git-repo");
        driver.findflement(By.name("user_number")).click();
driver.findflement(By.name("user_number")).sendKeys("3017218053");
driver.findflement(By.name("password")).sendKeys("https://gitee.com/chenkuochih/software_test.git");
```

```
3.生成 chromedriver,并设定网址。
  WebDriver driver=new ChromeDriver();
   //二、定义要访问的网址
   String baseUrl = "http://103.120.226.190/selenium-demo/git-repo";
   driver.get(baseUrl);
选定 chromedriver.exe
 String driverPath = System.getProperty("user.dir") +"/src/resources/driver/chromedriver.exe";
 System.setProperty("webdriver.chrome.driver", driverPath);
通过 IO 流获取 xlsx 中的表格内容,使用自带的 Iterator 逐个获取。
 InputStream is =null;
 Workbook workbook=null;
 is =new FileInputStream(filename);
 if(filename.endsWith(".xlsx")) {
      workbook=new XSSFWorkbook(is);
 }else if (filename.endsWith(".xls")) {
      workbook=new HSSFWorkbook(is);
 }
 is.close();
 //读取sheet表的内容
 Sheet sheet=workbook.getSheetAt(0);
 Iterator<Row> rows= sheet.rowIterator();
获取网负内的元素
  for(int i=0;i<row_max;i++) {</pre>
    WebElement username=driver.findElement(By.name("user_number"));
    WebElement password=driver.findElement(By.name("password"));
    WebElement btn=driver.findElement(By.xpath("/html/body/div/div/div/div/div/div/div/div[2]/div/form/div[3]/input"));
逐个获取表格的内容
  if(rows.hasNext()) {
       row=rows.next();
       Iterator<Cell> cells=row.cellIterator();
       if(cells.hasNext()) {
           cell=cells.next();
           user name=cell.getStringCellValue();
           cell=cells.next();
           pass_word=cell.getStringCellValue();
       }
  }
填入表格内容后提交之后获取结果的元素位置,如若相同,则在控
制台输出"匹配成功"
 username.sendKeys(user_name);
 password.sendKeys(pass_word);
 btn.click();
 WebElement result=driver.findElement(By.xpath("/html/body/div/div/div/div/div/div/div/div[2]/div/form/div[5]/code"));
 if(result.getText().equals(pass_word)) {
    System.out.println("匹配成功");
driver 美闭
driver.close();
```