### 1. Experimental requirements

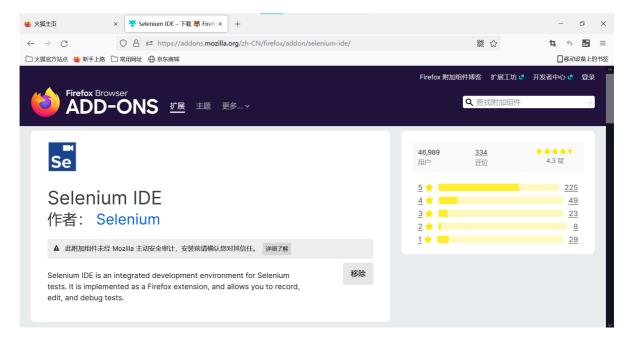
- 1. Install Selenium with Eclipse or IntelliJ IDEA.
- 2. Install Firefox/Chrome (Chrome is recommended) and SeleniumIDE plugin.
- 3. Try to record and export scripts using SeleniumIDE.
- 4. Please complete the following task using Selenium Webdriver:

"user\_info.csv" contains information about the students, and <a href="http://118.178.137.170:8080/">http://118.178.137.170:8080/</a> can view someone's information after logging in (simplified student id). Please check each record in the csv file to make sure that each student's information is consistent with the information on the website.

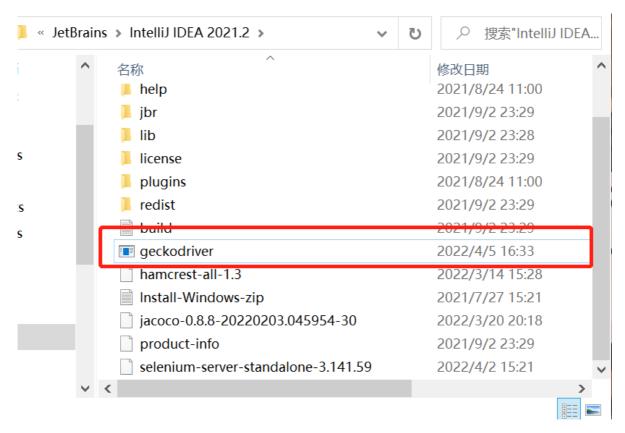
## 2. Configuration

#### (1) 在Firefox上配置Selenium IDE

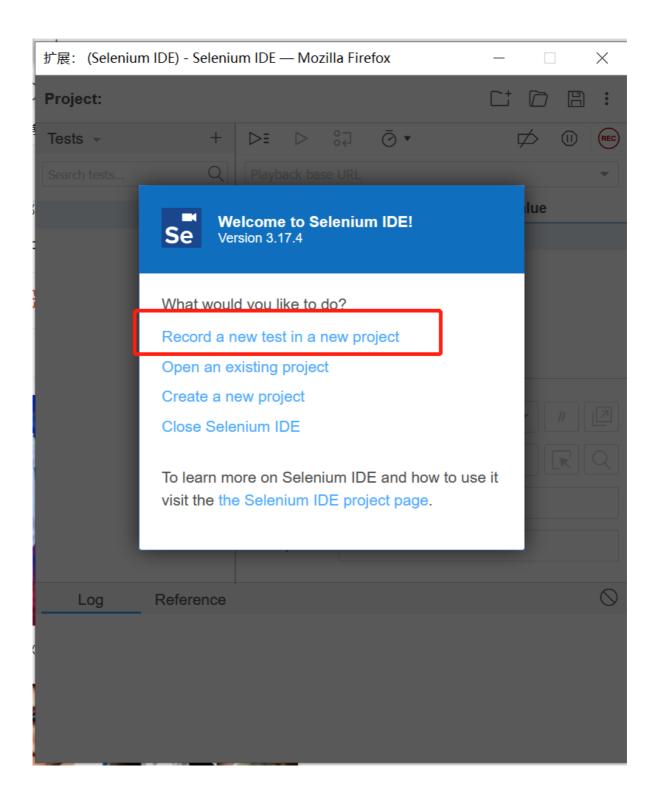
搜索Firefox插件,安装

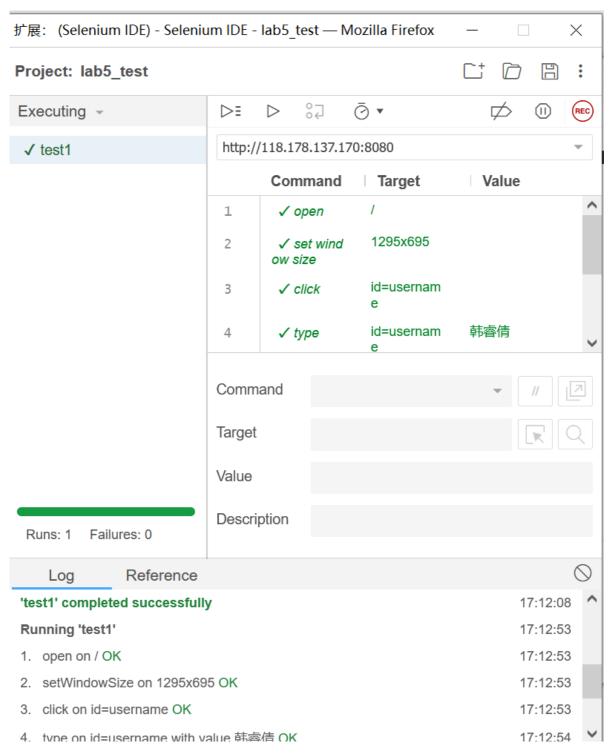


下载geckodriver.exe

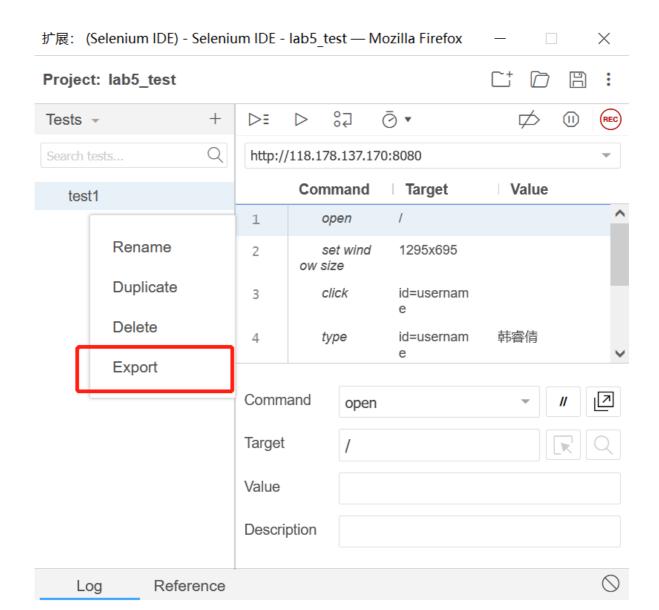


#### (2) 录制selenium





#### (3) 导出java代码

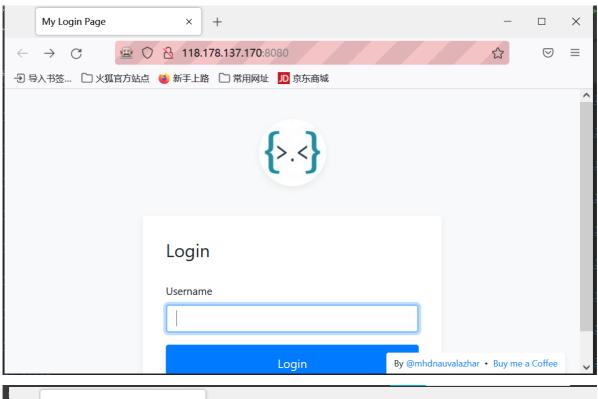


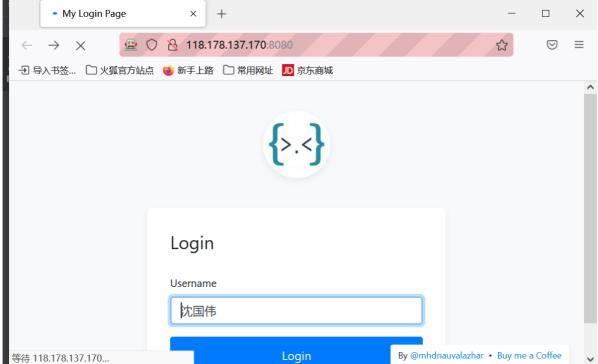
Select language
C# NUnit
O C# xUnit
<ul><li>Java JUnit</li></ul>
O JavaScript Mocha
O Python pytest
O Ruby RSpec
Include origin tracing code comments
Include step description as a separate comment
Export for use on Selenium Grid
EXPORT CANCEL

(4) 编写测试代码

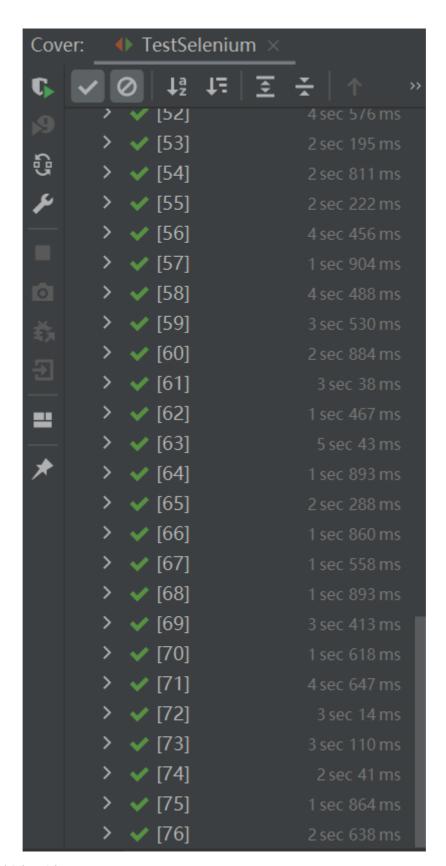
# 3. Result analysis

运行测试,会自动填充username





>> Tests passed: 77 of 77 tests – 4 min 4 sec



77个测试用例全部通过

#### 4. Source code

```
import org.junit.*;
import org.junit.runner.RunWith;
import org.junit.runners.Parameterized;
import org.openqa.selenium.By;
import org.openqa.selenium.Dimension;
import org.openqa.selenium.firefox.FirefoxDriver;
```

```
8 | import java.io.BufferedReader;
 9
    import java.io.FileReader;
    import java.io.IOException;
10
11
    import java.util.Arrays;
12
    import java.util.Collection;
13
14
    /**
15
     * @author Han Ruigian
     * @date 2022/4/5
16
17
     */
    @RunWith(Parameterized.class)
18
19
    public class TestSelenium {
        private static FirefoxDriver driver;
21
        private final String testName;
22
        private final String testNumber;
24
        public TestSelenium(String testName, String testNumber) {
            this.testName = testName;
25
26
            this.testNumber = testNumber;
27
        }
28
29
30
        @BeforeClass
31
        public static void beforeClass(){
32
            System.setProperty("webdriver.gecko.driver", "C:\\Program
    Files\\JetBrains\\IntelliJ IDEA 2021.2\\geckodriver.exe");
33
            driver = new FirefoxDriver();
            driver.manage().window().setSize(new Dimension(800, 500));
34
35
        }
36
37
        @Parameterized.Parameters
38
        public static Collection<Object[]> getData(){
39
            Object[][] objects = new Object[77][];
40
            FileReader fileReader;
41
            try {
42
                 fileReader = new FileReader("C:\\Users\\Han
    Ruiqian\\Desktop\\major\\软件测试技术\\Lab-Selenium\\Lab-
    Selenium\\user_info.csv");
43
                BufferedReader bufferedReader = new BufferedReader(fileReader);
44
                 bufferedReader.readLine();
                 String line;
45
46
                 int count = 0;
47
                while ((line = bufferedReader.readLine()) != null) {
48
                     String[] item = line.split(",");
49
                     String name = item[1];
50
                     String number = item[0];
51
                     objects[count] = new Object[]{name, number};
52
    //
                       System.out.println(Arrays.asList(objects[count]));
53
                     count++;
                }
54
55
            } catch (IOException e) {
56
57
                 e.printStackTrace();
58
            }
59
              System.out.println(Arrays.asList(objects));
    //
60
            return Arrays.asList(objects);
61
62
        }
```

```
63
64
        @Test
        public void test(){
65
            driver.get("http://118.178.137.170:8080/");
66
            {\tt driver.findElement(By.id("username")).sendKeys(testName);}
67
68
            driver.findElement(By.cssSelector(".btn")).click();
69
            String checkStr =
    driver.findElement(By.xpath("/html/body/section/div/div/div/div/table/tb
    ody/tr/td[2]")).getText();
70
            Assert.assertEquals(this.testNumber,checkStr);
        }
71
72
73
        @After
74
        public void tearDown() {
75
            driver.navigate().back();
            driver.navigate().refresh();
76
77
        }
78 }
```