JavaScript JPLAS System

A study of Unit Testing Tool for Web-Client Application by using Selenium

User Manual

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1. User Interface of Offline JPLAS

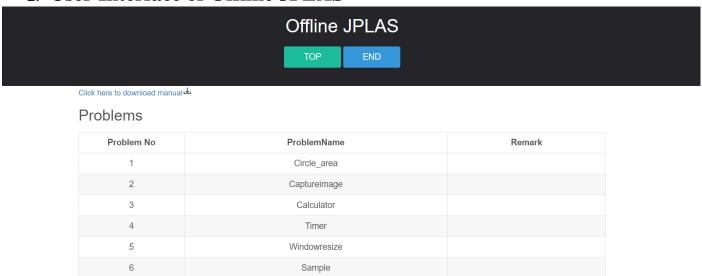


Fig1: Problems list and User Manual

2. Problem Content

Problem content will be as below. There will be problem title, details of the problem and Specifications

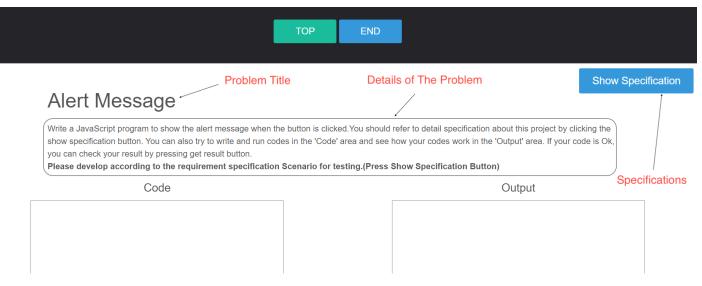


Fig2: Problem Content with label

2.1 Problem Title

This is the title of the problem. In this sample, it is 'Alert Message'.

2.2 Details of the Problem

In here, there would be instructions what kind of web functions you have to implement. In this sample, you have to implement a function that shows alert message when a button is clicked.

2.3 Specifications

This will be dialog when you clicked the specification button. It will be shown as the following.

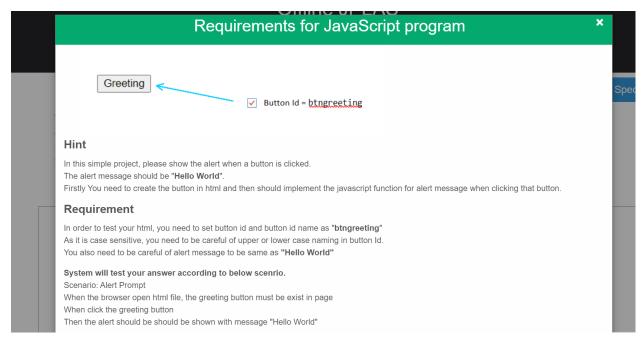


Fig3: Dialog when clicked Specification button

- In Fig3, there is a sample UI that needs to be implemented. There is a button and the id element should be given as "btngreeting".
- The paragraph with "Hint" title shows the general flow of the problem. In here, it describes an event of button click action.
- The last paragraph shows that how submitted source code will be tested according to the below scenario.
 - Testing will be carried out serially from up to down. For example, the system will check there is a button in the html page and then it will check the alert function is working or not.

3. TEST AUTOMATION

Source code should be adjusted with test scenario according to figure4.

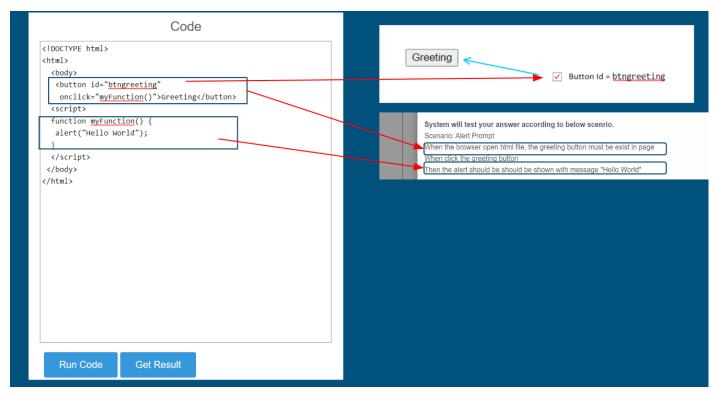


Fig4: Testing Work Flow

Your code will be tested as shown in Figure 5 according to the Scenarios written in the Specifications. In this sample scenario,

- Firstly, system will find the button with the "btngreeting" id
- Then it will click the button
- And check where the alert is prompt properly or not

4. CODING AND PREVIEW

You can write the coding as show in Figure 6 as following. If you click the run code button after you have written code, the preview will be shown in right side as in Figure 5.

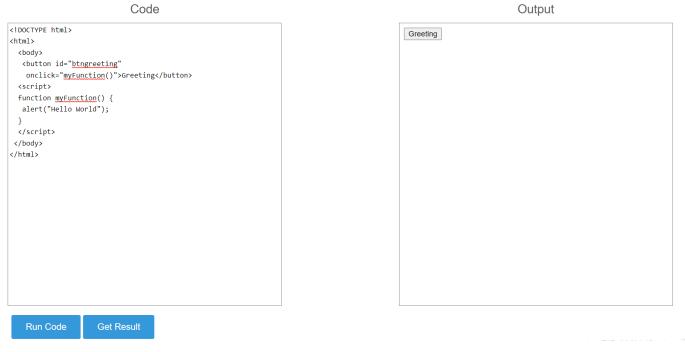


Fig5: Preview Layout

5. Allure Report

1 Testing report will be like that after pressing "Get Result".

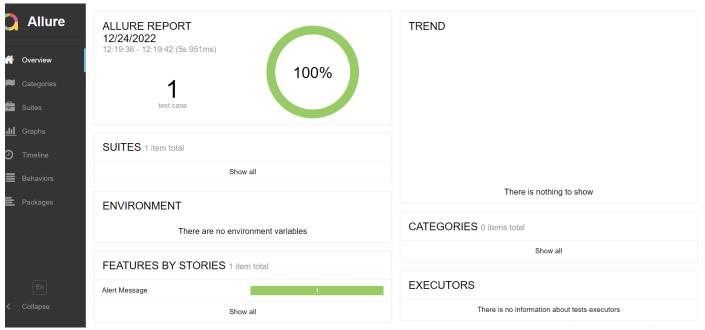


Fig6: Test Report with Allure

(2) Passed Test result can be seen like this.

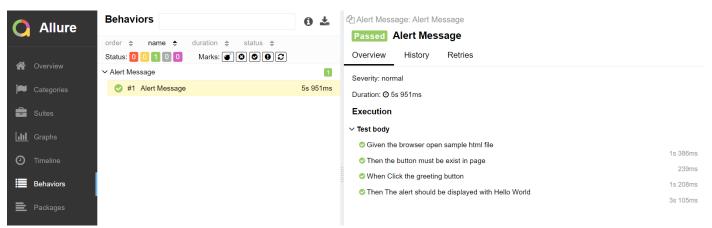


Fig7: Test Report with Allure

6. ERRORS CONDITIONS

If you don't set button id or text input id according to Specifications,, you will see the error message as below.

```
selenium.common.exceptions.TimeoutException: Message:
Stacktrace:
#0 0x562f550322a3 <unknown&gt;
#1 0x562f54df0f77 <unknown&gt;
#2 0x562f54e2d80c <unknown&gt;
#3 0x562f54e2da71 <unknown&gt;
#4 0x562f54e67734 <unknown&gt;
#5 0x562f54e4db5d <unknown&gt;
#6 0x562f54e6547c <unknown&gt;
#7 0x562f54e4d903 <unknown&gt;
#8 0x562f54e20ece <unknown&gt;
#9 0x562f54e21fde <unknown&gt;
#10 0x562f5508263e <unknown&gt;
#11 0x562f55085b79 <unknown&gt;
#12 0x562f5506889e <unknown&gt;
#13 0x562f55086a83 <unknown&gt;
#14 0x562f5505b505 <unknown&gt;
#15 0x562f550a7ca8 <unknown&gt;
#16 0x562f550a7e36 <unknown&gt;
#17 0x562f550c3333 <unknown&gt;
#18 0x7f77a766bfa3 start thread
```

Fig8: Error Report