Testing using CasperJS and PhantomJS in JavaScript

Overview

In this tutorial, we will create some tests in JavaScript using casperjs.

Requirements

- phantomjs
- casperjs

> **Please note**
>
> As of 2019, CasperJS is no longer maintained.

Description

google_testing.js

```
casper.test.begin('Google search retrieves 10 or more results', 5, function suite(test) {
    casper.start("http://www.google.fr/", function() {
        test.assertTitle("Google", "google homepage title is the one expected");
        test.assertExists('form[action="/search"]', "main form is found");
        this.fill('form[action="/search"]', {
            q: "casperjs"
        }, true);
    });
    casper.then(function() {
        test.assertTitle("casperjs - Recherche Google", "google title is ok");
        test.assertUrlMatch(/q=casperjs/, "search term has been submitted");
        test.assertEval(function() {
            return __utils__.findAll("h3.r").length >= 10;
        }, "google search for \"casperjs\" retrieves 10 or more results");
    });
    casper.run(function() {
        test.done();
    });
});
```

After running the tests and generating the JUnit XML report (e.g., log.xml), it can be imported to Xray (either by the REST API or through the **Import Execution Results** action within the Test Execution).

```
casperjs test google_testing.js --xunit=log.xml
```

JUnit's Test Case is mapped to a Generic Test in Jira, and the **Generic Test Definition** field contains the name of the test concatenated with the alias of each test case "assert" statement.

	Key	Summary	Test Type	#Req	#Def	Test Sets	Assignee	Status	
1	CALC-111	search term has been submitted	Generic	0	0			PASS	
2	CALC-110	google title is ok	Generic	0	0			PASS	
3	CALC-112	google search for "casperjs" retrieves 10 or more results	Generic	0	0			PASS	
4	CALC-108	google homepage title is the one expected	Generic	0	0			PASS	
5	CALC-109	main form is found	Generic	0	0			PASS	

Showing 1 to 5 of 5 entries

First Previous 1 Next Last

The Execution Details of the Generic Test contains information about the Test Suite, which in this case corresponds to the name of the test case.

Execution Details

Test Description

None

Test Details

Test Type: Generic

Definition: Google search retrieves 10 or more results.search term has been submitted

Results

Context	Error Message	Duration	Status
TestSuite Google search retrieves 10 or more results	-	1 millisec	PASS

References

- ~~http://docs.casperjs.org/en/latest/testing.html~~