Testing using CasperJS and PhantomJS in JavaScript

Overview

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

Requirements

- phantomjs
- casperjs

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
```

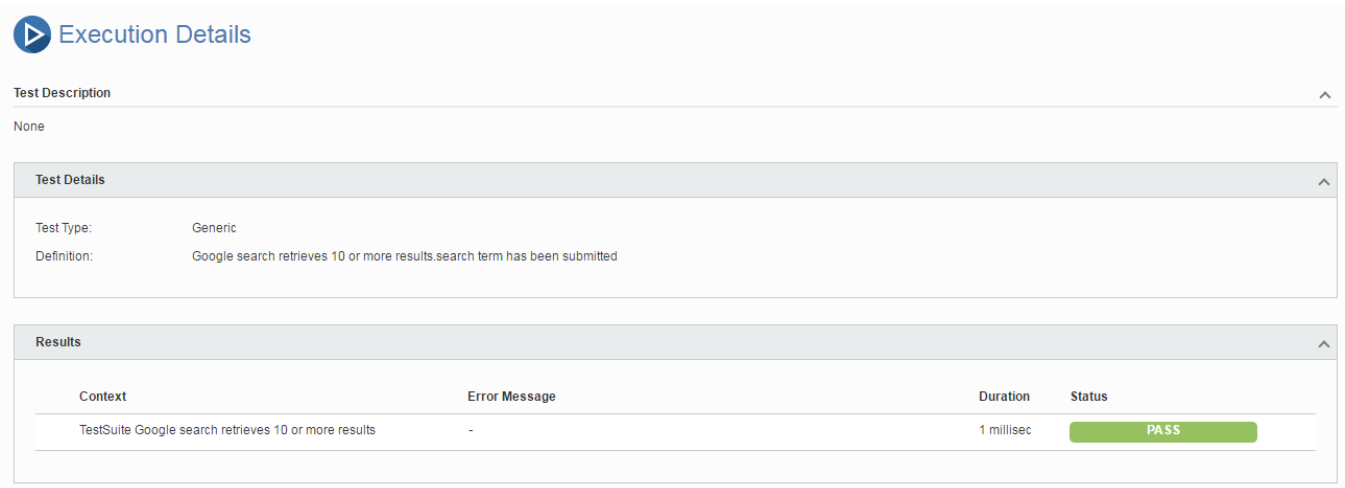
JUnit's Test Case is mapped to a Generic Test in Jira, and the **Generic Test Definition** field contains the name of the test concatenated with the alias of each test case "assert" statement.

	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.



References

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