

# 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As of 2019, CasperJS seems to be no longer maintained.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

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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 millisc	PASS

## References

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