

Testing using Selenium and RSpec in Ruby

Overview

In this tutorial, we will create some tests in Ruby using RSpec and the [rspec_junit_formatter](#) gem.

The tests make use of Selenium with the [watir](#) gem.

Requirements

- Install the `rspec`, `watir` and `rspec_junit-formatter`

```
gem install rspec watir rspec_junit_formatter
```

- Selenium server must be installed and running.

Description

```
require 'rspec'
require 'watir'

browser = Watir::Browser.new

RSpec.configure do |config|
  config.before(:each) { @browser = browser }
  config.after(:suite) { browser.close unless browser.nil? }
end

describe "a simple demonstration of watir and trad RSpec" do
  before(:each) do
    @browser.goto("https://cukes.info/")
  end
  describe "that we have hit a valid URL" do
    it "should not return an invalid error message" do
      @browser.text.should_not include('The requested URL could not be retrieved')
    end
  end
  describe "the contents of the cukes page" do # the describe() is an example group
    it "should include aidy's name" do # the it() represents the detail that will be expressed in the code
      within the block
        @browser.text.should include('Aidy Lewis')
      end
    end
    it "should not include the great Nietchzsche's name" do
      @browser.text.should_not include('Frederick Nietchzsche')
    end
  end
end
```

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

```
rspec -c watir_sample.rb --format RspecJunitFormatter --out rspec.xml
```

JUnit's Test Case is mapped to a Generic Test in Jira, and the **Generic Test Definition** field contains the name of the spec file concatenated with the "describe" lines that make up the test case.

The Execution Details of the Generic Test contains information about the Test Suite, which in this case corresponds to the name of the created JUnit XML report file.

Test Details

Test Type:

Generic

Definition:

watir_sample.a simple demonstration of watir and trad RSpec the contents of the cukes page should include aidy's name

Results

| Context | Error Message | Duration | Status |
|-----------------|---|----------|--------|
| TestSuite rspec | <div>Connection reset by peer<internal:prelude>:76:in `__read_nonblock'<internal:prelude>:76:in `read_nonblock'/home/sergio/.rvm/gems/ruby-2.3.1/gems/selenium-webdriver-3.0.3/lib/selenium/webdriver/remote/http/default.rb:103:in `response_for'/home/sergio/.rvm/gems/ruby-2.3.1/gems/selenium-webdriver-3.0.3/lib/selenium/webdriver/remote/http/default.rb:57:in `request'/home/sergio/.rvm/gems/ruby-2.3.1/gems/selenium-webdriver-3.0.3/lib/selenium/webdriver/remote/http/common.rb:59:in `call'/home/sergio/.rvm/gems/ruby-2.3.1/gems/selenium-webdriver-3.0.3/lib/selenium/webdriver/remote/bridge.rb:647:in `raw_execute'/home/sergio/.rvm/gems/ruby-2.3.1/gems/selenium-webdriver-3.0.3/lib/selenium/webdriver/remote/bridge.rb:625:in `execute'/home/sergio/.rvm/gems/ruby-2.3.1/gems/selenium-webdriver-3.0.3/lib/selenium/webdriver/remote/bridge.rb:543:in `element_text'/home/sergio/.rvm/gems/ruby-2.3.1/gems/selenium-webdriver-3.0.3/lib/selenium/webdriver/common/element.rb:142:in `text'/home/sergio/.rvm/gems/ruby-2.3.1/gems/watir-6.0.2/lib/watir/elements/element.rb:83:in `block in text'/home/sergio/.rvm/gems/ruby-2.3.1/gems/watir-6.0.2/lib/watir/elements/element.rb:659:in `element_call'/home/sergio/.rvm/gems/ruby-2.3.1/gems/watir-6.0.2/lib/watir/elements/element.rb:83:in `text'/home/sergio/.rvm/gems/ruby-2.3.1/gems/watir-6.0.2/lib/watir/browser.rb:174:in `text'./watir_sample.rb:28:in `block (3 levels) in <top (required)>'</div> | 3 secs | FAILED |

References

- <https://github.com/watir/watir>
- <http://rspec.info/>
- <https://gist.github.com/alisterscott/2773042>