

Automated Functional Testing Project for EOL



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Team

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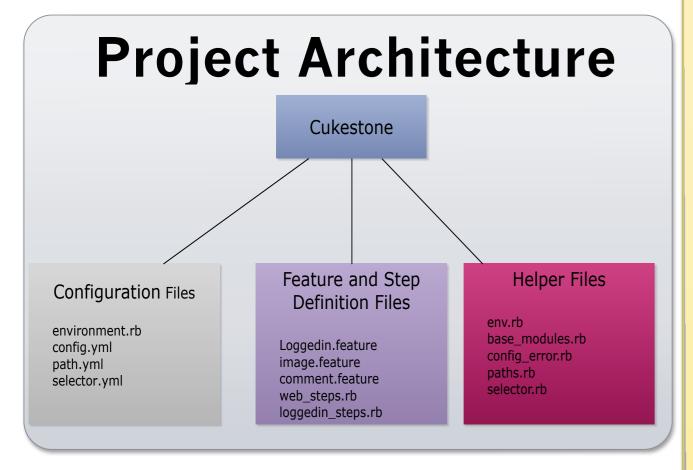
Members:

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Josh Zucker (University of Toronto)
Jonathan Seguin (University of Ottawa)
Tyler Chamberland (Laurentian University)

Introduction

- Develop an acceptance testing framework for EOL website
- Extend the framework to be general enough to test any given website.

Methodology Behavior Driven Development (BDD)



Techniques:

1. Cucumber

- A functional test automation tool that supports BDD.
- Easily readable and understandable to business users, developers and testers.

Feature: title

In order to [Busness Value]
As a [Role]

I want to [Some Action]

Scenario: title
Given [Context]
When I do [Action]
And [Other Action]
Then I should see [Outcome]
But I should not see [Outcome]

Example:

Feature: User login

In order to login to the website,

As a registered user,

I must provide the correct user name and password

Scenario: Login with an incorrect password
When I am on the login page
And I fill in the username field with "abc"
And I fill in the password field with "abc"
And press the login button
Then I should see "Invalid login or password"

Step Definition

When /^(?:|I)am on (.+)\$/ do |page_name| visit path_to(page_name) end

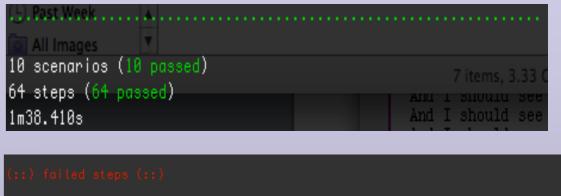
2. Capybara

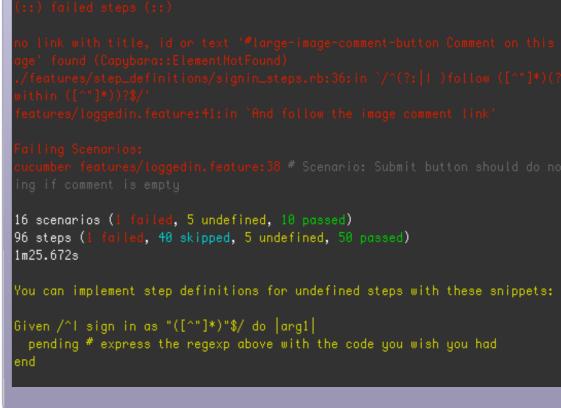
An acceptance testing framework that simulates how a real user would interact with a web application

3. Selenium

Browser simulator integrated in Capybara to support Javascript and Ajax test.

Results





Collaboration

- Git
- Email
- Wiki
- Skype Conference