Feature Configuration

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JAZZ AUTOMATION

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Overview

What is Jazz Automation?

Jazz Automation is for companies who want to improve the quality of web applications using Total Quality Testing™.

Jazz Automation allows for flexible, repeatable, and configurable testing of web based user interfaces using a plain English *scripting language*. Jazz Automation can be used with any browser on any platform and is operating system independent. Jazz Automation enables data driven testing (expectation/verification) as well as traditional user interface element detection. With Jazz automation, organizations are free to perform more exploratory and negative testing since Jazz Automation enables the organization to automate 'Happy Path' and regression testing.

Jazz Automation is open source tool built on Java that uses several open source libraries. Users of Jazz Automation are free to contribute to the product using the JazzAutomation GIT repository.

Yet another scripting language?

JazzAutomation is incredibly flexible and easy to use, thanks to Cucumber. JazzAutomation uses cucumber's behavior driven development framework to describe software features (how the software should work) in plain and understandable English. Please see http://en.wikipedia.org/wiki/Cucumber_(software) for a detailed history. Please see http://cukes.info/ for more information about cucumber. JazzAutomation only uses the domain-specific language provided by cucumber for driving the test flow and steps.

Get to it already!

Now, let's say we worked for Best Buy and we wanted to ensure that the best buy online shopping site was working. Specifically, we want to access the best buy online store, add a product to our shopping cart, and then enter our billing information on the checkout page. What would this look like?

```
Feature: Go to the bestbuy web site, add a product to
cart and then checkout (enter billing info only).

Background: set up for tests
        Given the following settings:
        | url              | http://www.bestbuy.com |
        | platform         | VISTA                  |
        | browser          | firefox                |
        | browser version  | 21                     |

Scenario: Ensure that productMenu is visible and cart
items total is 0 after opening the web page
        Given I am ON "BestBuyPortalPage"
        Then I should EXPECT
        | productMenu   | visible   |
        | giftMenu      | visible   |
        | cart          | visible   |
        | cartItems     | 0 Items   |

Scenario: Go to Tv page
        Given I am ON "BestBuyPortalPage"
        And I CLICK "productMenu"
        And I CLICK "tvHomeTheaterSubMenu"
        Then I should be ON "TvHomeTheaterPage"

Scenario: Go to Tv and Video Page
        Given I am ON "TvHomeTheaterPage"
        And I CLICK "televisions"
        Then I should be ON "TvVideoPage"
                ...
Scenario: Enter First name and last name
        Given I am ON "BillingAddressPage"
        And I ENTER
        | firstName     | Jazz          |
        | lastName      | Automation    |
```

That's it! The **bold** words in the above example are reserve words that allow our software to parse the test script and execute the required steps.

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Configuration Information

Reserved Words

Behaviors: Feature, Background, Scenario, Given, And, Then, |(single pipe), EXPECT, ON

Actions: CLICK, HOVER, WAIT, REFRESH, ENTER, SELECT, FORWARD, BACKWARD

Expects: VISIBLE, INVISIBLE, any value (but not a reserved word)

Behavior Definitions

Feature:
Describes the feature. This should be a detailed description and should make sense.

Background:
Allow for preconditions to be established. A detailed description is often given.
This also allows for mandatory feature configuration:

Given - to specify the following settings:

- url
- platform (Vista, Windows 8, OS X 10.6, OS X 10.8, etc.)
- browser (firefox, ie, chrome, safari)
- browser version (major version number)

Scenario:
Scenario clauses allow for a detailed a high level overview of the scenario. Each scenario should have a 'Given' and either a set of actions or expectations.

Given:
Typically a scenario **Given** is use to ensure that the proper page is in scope. A Page, defined in the "pages" folder, contains all applicable test elements. A **Given** can have no actions, many actions as well as zero or many **Then** clauses.

And:
And clauses are used to chain actions together. Often multiple user actions are required to perform a complete task. And clauses should always perform an action (CLICK, ENTER, WAIT, HOVER, etc.). And clauses require a valid DOM component name (components are defined for a page). **Wait** and **Refresh** actions do not require a valid DOM object.

Then:
Then clauses are used to specify expectations and are used in conjunction with ON and EXPECT clauses. Typically test cases expect to be **ON** a certain page before moving ahead. Further, Then clauses can be used to validate element state, visibility, etc. prior to completing a Scenario.

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