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Dynamic Action Framework

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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.

Dynamic Action Framework

JazzAutomation is designed for organizations that utilize continuous delivery/integration methodology for product development; however it can now be used for functional automated testing for organizations that are not utilizing continuous delivery/integration.

For these organizations, we have a Dynamic Action Framework that will allow for custom code execution for expectation validation steps as well as filling in form field values. This is very useful to organizations who cannot reset their datastore(s) to a known state prior to each test cycle.

Enough talking, show an example!

Now, let's say we worked for Columbia Sportswear and at the end the eCommerce shopping experience we need to signup by completing a form field prior to check out. Since the eCommerce application does not allow for 'duplicate' user, we need to generate a unique user name and ensure that it's not in use. To accomplish this, Jazz Automation allows for custom Java™ code to be executed.

```
Scenario: Enter personal data on the Check
Out A Guest page
    Given I am ON "CheckoutGuestPage"
    And I ENTER
| firstName | Lukas                 |
| lastName  | $action=com.sample.TestAction |
| address1  | 1 Test Dr.            |
    And I SELECT
| state     | Oregon                |
```

To configure the custom action, simple add it to the data entry grid. Jazz Automation will detect '$action=' as a reserve word and will then attempt to create and execute the specified action.

Custom actions can also be used when an expectation is unknown and requires custom code.

```
Scenario: Validate the total product count
and other key elements for the page.
    Given I am ON "MensShoes"
    Then I should EXPECT
| productCount    | 791 Products    |
| runningFacet    | Running         |
| basketballFacet | Basketball      |
| jordanFacet     |
$action=com.sample.GetJordanFacet |
```

When developing custom java actions, developers will need to implement the **com.jazzautomation.customaction.Action** interface.

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Configuration Information

Classpath Augmentation

As one would expect, when new code is introduced, the classpath must be augmented. It is highly recommended that all custom classes be added to a jar file and the directory location of jar file should be added to the jazz.properties file.

Example:
customClasspath:/Users/guest/Public/tests/jazz custom

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