VooDooDriver-api

VooDooDriver is the Java-based version of SODA. It has been developed to work in the same manner as SODA with added functionality including drag and drop.

All tests are XML based and must begin with <soda> and end with </soda>. In the examples below, they have been pulled to focus on specific components of tests and therefore have been omitted.

Assertions can be loaded through the command line at runtime to avoid hard coded asserts.

A complete definition of the most widely used action elements is available at the end of the document to avoid unnecessary repetition.

VooDooDriver Elements:

1. Timestamp:

Timestamp updates Soda's internal timestamp variable that is used by tests.

There are no action elements associated with timestamp.

Example 1-1:

```
<timestamp />
<puts text="{@stamp}" /> //see 'Puts' for description of action elements
/* Uses the internal variable 'stamp' to be used by calling functions. Also logs the time/date to
the VooDooDriver log file */
```

2. Attach:

Often times, a new popup window appears after clicking a button on a webpage. The 'attach' action element attaches this new popup window to be automated.

Start by typing 'attach' followed by title of the new webpage popup. And end with '/attach' to end the automation of the popup page.

Example 2-1:

Instead of using the title of the popup to attach, you can also give the URL or a variable containing either the title or the URL.

```
<attach url="www.google.com" />
<attach url="url variable" />
```

3. Variable:

Enables the ability of creating variables.

Start by typing 'var' followed by the action elements:

- var- create and label a variable
- set- set the variable equal to a value
- unset- delete the value of the variable

Example 3-1:

```
<var var="test" set="123" />
                                   //create a variable 'test' and set it to 123
<textfield id="foo" set="{@test}" /> //set value of test to the text field
```

4. Script:

Allows users to run a single xml file or multiple files from the same directory

Start by typing 'script' followed by the action elements:

- **file** runs a single VooDooDriver test file.
- **fileset** runs an entire directory of Vodoo test files.
- csv- overrides a pre-set csv file with a newly defined one. This only works when one xml file contains one csv file, otherwise the csv command will be overlooked.

Example 4-1:

```
<script file="scripts/SugarCRM/modules/Users/login.xml" />
/* Executes the VooDooDriver test file 'login.xml' */
```

Example 4-2:

```
<script fileset="scripts/SugarCRM/modules/Accounts" />
/* Executes all the VooDooDriver test files from the 'Accounts' directory */
```

Example 4-3:

```
<script file="C:/soda/scripts/SugarCRM/modules/Accounts/accounts 1"</pre>
csv="C:/soda/csvs/test1"/>
```

/* accounts_1 contains one csv file that will now be overridden by the csv file named 'test1' */

5. CSV:

Enables the ability of loading csv files and defines them with a preferred variable name. The first line of a csv file is the column header for all the data. To access the data, use the variable name followed by the column header (ex: @var_name.column1).

Start by typing 'csv' followed by the action elements:

- file— load the csv file by listing the full path in the local directory
- **var** this is the variable name to give for the csv data to be used in the VooDooDriver test to access the data.

Example 5-1:

/* Here, we are accessing the users.csv file and setting the variable to 'user'. We call the data by using the variable name followed by the data we want to retrieve, in this case, the username which was labeled on the column header.*/

If there is more than one set of data in a csv file, VooDooDriver will loop through each set of data.

6. Wait:

The default for a time delay is set to 5 seconds, to change the delay period, simply set it to the desired length of time using 'timeout'.

Example 6-1:

```
<wait />  //wait for a period of 5 seconds

Example 6-2:
<wait timeout = "2" />  //wait for a period of 2 seconds
```

7. Puts:

A simple print command

Start by typing 'puts' followed by the action elements:

- **text-** prints a string of text to the VooDooDriver log file and the terminal
- var- prints the contents of a variable to the VooDooDriver log file and terminal

Example 7-1:

<puts text="Hello World" /> //prints 'hello world' to the terminal and VooDooDriver log file

Example 7-2:

```
<puts text="{@test_variable}" /> //print the value of the var to the log file and terminal
```

8. Browser:

Start by typing 'browser' followed by the action elements:

- url go to the url that you specify
- assert asserts that the browser window contains the specified text somewhere on the page

- assertnot assert the browser window does not contain the specified text
- **send_key-** sends either a single key from the keyboard or a series of keys.
- action action can be used to fire the following browser actions:
 - o close: Closes the browser window.
 - back: Clicks the browser's back button.
 - o forward: Clicks the browser's forward button.
 - o refresh: Click the browser's refresh button.

Example 8-1:

```
<browser url="http://cnn.com" /> //browse to CNN.com
<browser assert="Lastest News" /> //make sure 'Latest News' shows up on page
<browser action="close" /> //closes the browser
/*you can use assertnot rather than assert to check if 'Latest News' isn't on the CNN homepage*/
```

9. Textfield:

This enables the ability of accessing and modifying text elements on a webpage.

Refer to a textfield by listing one of the following attributes:

name

text

value

xpath

class

· id

index

CSS

Textfield has the following action elements:

• set

assert

default

timeout

jscripteventdisabled

click

assertnot

clear

required

save

Example 9-1:

<textfield id="foo" set="tree" jscriptevent="onkeyup" />

/* sets the value of the text field to 'tree' and then fires the onkeyup JavaScript event for the text field */

10. TextArea:

Sets the value for a text area (simply put, a bigger textfield) and shares much of the same elements as textfield.

Refer to a textarea by listing one of the following attributes:

name

class

- text
- value
- xpath

id

- index
- CSS

Textarea has the following action elements:

- set
- assert
- save
- required

- jscriptevent
- disabled
- timeout

Example 10-1:

<textarea id="foo" set="this can be a very long string" /> /* sets the value of the textarea to 'this can be a very long string' */

11. Label:

VooDooDriver supports the HTML 'label' tag which outlines a label for an input element Refer to label by listing one of the following attributes:

• name class

text

id

xpath

CSS

index

for

Available action elements are: 'save'

12. Button:

Allows access to a button on a page

Refer to label by listing one of the following attributes:

name

class

text

id

xpath

value

index

src

CSS

Available action elements for button:

assertPage

- click
- save
- disabled

- jscriptevent
- alert
- required
- timeout

Example 12-1:

<button id="user select" click="true" />

/* looks for the button by the id and then clicks on it */

13. Unordered List (UL):

UL is an unordered and bulleted list tag in HTML that is supported by VooDooDriver. Refer to UL by listing one of the following attributes:

- name
- text
- xpath
- index

- class
- id
- CSS

Available action elements are: 'save'

14. FileField:

A fiflefield is used to upload a file from your local directory

Refer to a file field by listing one of the following attributes:

- name
- value
- xpath
- index

- class
- id
- CSS
- title

Available action elements for filefield:

- set
- save

• jscriptevent

Example 14-1:

<filefield name="uploadfile" set="C:\Documents and Settings\All Users\Documents\My Pictures\Sample Pictures\Sunset.jpg" />

/* define the name of where the path needs to be input and set the path of which the file is located in */

15. Standard Cell (TD):

Defines a standard sell in HTML.

Refer to 'TD' by listing one of the following attributes:

- name
- text
- xpath
- index

- class
- id
- CSS

Available action elements are: 'save'

Example 15-1:

16. Select: Set values in for an HTML select element Refer to 'select' by listing one of the following attributes: class text id index value xpath CSS Available action elements for 'select': set disabled assert jscriptevent save assertnot required noninclude include Example 16-1: <select id="sel" set="1" /> <select id="sel" set="9" /> /* selects two options in the HTML select element*/ 17. H1: This is the smallest sized text header Refer to H1 by listing one of the following attributes: name class text id xpath CSS index Available action elements are: 'save' Example 17-1: <h1 class='bigH1'> </h1> /* access H1 with class 'bigH1' */ _____ 18. H2:

Second to smallest header

Refer to H2 by listing one of the following attributes:

- nametext
- xpath •

class

id

CSS

index

Available action elements are: 'click' and 'save'

Example 18-1:

<h2 class='bigH2' click="true" />
/* access H2 with class 'bigH2' and click*/

19. H3:

A medium sized text header

Refer to H3 by listing one of the following attributes:

name

class

text

id

xpath

CSS

• index

Available action elements are: 'save'

Example 19-1:

<h3 class='bigH3'> </h3> /* access H3 with class 'bigH3' */

20. H4:

A medium sized text header

Refer to H4 by listing one of the following attributes:

name

class

text

id

xpath

CSS

• index

Available action elements are: 'save'

Example 20-1:

<h4 class='bigH4'> </h4> /* access H4 with class 'bigH4' */

21. H5:

This is the second to largest text header

Refer to H5 by listing one of the following attributes:

name

class

text

id

xpath

CSS

index

Available action elements are: 'assert', 'assertnot', and 'save'

Example 21-1:

<h5 class="calSharedUser" assert="Administrator" />

/* looks for the header with the defined class and asserts that it contains 'Administrator */

22. H6:

Largest sized text header

Refer to H6 by listing one of the following attributes:

- name
- text
- xpath
- index

Available action elements are: 'save'

Example 22-1:

<h2 class='bigH6'>

</h6>

/* access H6 with class 'bigH6' */

23. Preformatted Test (Pre):

Text is displayed in a fixed font, and preserves both the spaces and the new line breaks.

Refer to pre by listing the following attributes:

- name
- text
- xpath
- index

class

class

id

CSS

- id
- CSS

There are no action elements for 'Pre'.

Example 23-1:

/* gives access to the preformatted text on the page */

24. Table

Lets you focus on a table on a page

Refer to 'table' by listing the following attributes:

- name
- text
- xpath

- class
 - · id
- CSS

• index

Action elements for 'table' are:

- required
- click

- jscriptevent
- save

Example 24-1:

25. Table Row (Tr):

Access a row inside of a table

Refer to 'Tr' by listing the following attributes:

- name
- text
- xpath
- index

- class
- id
- CSS

Action elements for 'Tr' are:

- jscriptevent
- save

Example 25-1:

26. Radio:

Gives access to a radio button

Refer to a radio button by listing the following attributes:

name

class

text

id

xpath

• css

• index

value

Available action elements for radio are:

set

click

disabled

• jscriptevent

save

Example 26-1:

<radio name="Do you have a car?" set="true" />

/* look for the radio button with the defined name and set it to click the button */ 27. Paragraph (P): A simple paragraph on a page Refer to paragraph by defining one of its attributes: name class text id xpath CSS index There are no action elements for 'P' Example 27-1: /* access the paragraph with id 'myparagraph' */ 28. Checkbox: Gives access to checkboxes that are displayed on a page. Refer to a checkbox by defining one of its attributes: name class id text value index xpath CSS Action elements for a checkbox include: disabled set click assertPage assert jscriptevent assertnot timeout save required Example 28-1: <checkbox name="massall" click="true" /> /* the checkbox with name 'massall' will be checked */

29. Map:

Allows access for an image map

Refer to a map by defining one of its attributes:

 name class

- text
- xpath
- index

id

css

value

Action elements for a map include:

• jscriptevent

save

Example 29-1:

<map name="mymap">

<area id="myarea" shape="rect" coords="0,0,80,120" href="cat.htm" alt="cat" /> </map>

/* the image map with the name 'mymap' is being accessed and the area is being defined */

30. Frame:

Allows access for a specific window within a frameset

Refer to a frame by defining one of its attributes:

• name

• src

text

id

• index

xpath

CSS

Action elements for a frame include:

jscriptevent

save

31. Form:

A form is an organized way of sorting user inputs that handles radios, buttons, textfields, and more.

Refer to a 'form' by defining one of its attributes:

name

class

method

action

• id

• index

xpath

CSS

Action elements for a 'form' include: 'jscriptevent'

Example 31-1:

```
<form id="EditView">
```

```
<textfield id="name" set="Joe Smith" />
```

<textfield id="website" set="http://www.joesmith.com" />

</form>

/* sets the name field to 'Joe Smith' and the website field to 'http://www.joesmith.com' */

32. Div:

A division/section of a page

Refer to a div by defining one of its attributes:

- name
- text
- index
- CSS

class

- id
- xpath

Action elements for a div include:

- save
- assert

- click
- assertnot

jscriptevent

Example 32-1:

/* goes to the div field 'list_div_win' and clicks the button 'Add' and the performs an 'onmouseup' event for the button */

33. Area:

Defines an area inside an image-map.

Refer to area by defining one of its attributes:

- name
- text
- index
- css

- class
- id
- xpath

Action elements for area include:

jscriptevent

save

Example 33-1:

<map name="mymap">

<area id="myarea" shape="rect" coords="0,0,80,120" href="cat.htm" alt="cat" /> </map>

/* the image map with the name 'mymap' is being accessed and the area is being defined */

34. List Item (Li):

A list item of an unordered list (UL)

Refer to 'Li' by defining one of its attributes:

- name
- text
- index

- class
 - · id
- xpath

CSS

Action elements for 'Li' include:

click

jscriptevent

save

Example 34-1:

id='item1'>

35. Link:

Enable clinking a link on a page.

Refer to a 'link' by defining one of its attributes:

- href
- class
- id
- xpath

- name
- text
- index
- css

Action elements for 'link' include:

- click
- timeout
- jscriptevent
- assertPage

- alert
- required
- save
- disabled

Example 35-1:

<link id="moduleTab_Accounts" click="false" jscriptevent="onmouseover" />
/* hovers over to the accounts tab on the page and doesn't click it since it is set to false. */

Example 35-2:

<link href='http://cnn.com' click='false'/>

/* does not click the link because the click is set to false. To click, remove the click and the link will click. <link href='http://cnn.com /> will click the link.*/

36. Image:

Allows for access to images.

Refer to 'image' by defining one of its attributes:

- name
- src
- id
- index
- xpath

- class
- text
- value
- alt
- CSS

Action elements for 'image' include:

- click
- save

- jscriptevent
- alert

Example 36-1:

```
 //enter a table row
              <image index="1" click="true" />
                                      //clicks on the image
         </div>
```

37. Text Field:

A division/section of a page

Refer to 'text_field' by defining one of its attributes:

- name
- text
- value
- xpath
- Action elements for 'text_field' include:

- disabled
- save

Example 37-1:

```
<text field id='user name' set='hello'/>
                                                   //set the user name to 'hello'
<text_field id='user_password' set='hello'/>
                                                   //set the password to 'hello'
<text field id='user_name' assert='hello'/>
                                                   //assert that 'hello' was inserted
<text field id='user name' clear=true/>
                                                   //clear the user name
<text field id='user name' set='admin'/>
                                                   //enter 'admin' for user name
<text field id='user password' set='123'/>
                                                   //enter the password '123'
```

38. Span:

Access inline elements on a page

Refer to 'span' by defining one of its attributes:

- name
- text
- index

Action elements for 'span' include:

- assert
- vartext
- iscriptevent

class

class id

index

jscriptevent

CSS

- id
- xpath
- assertnot
- click
- save

Example 38-1:

```
<span class="pageNumbers" assert="(1 - 2 of 6)" />
/* asserts that class 'pageNumbers' has the text '1-2 of 6' */
```

Example 38-2:

```
<span value='boo' click='true'/>
```

39. Hidden:

Accesses hidden elements on a page.

Refer to 'hidden' by defining one of its attributes:

name

method

text

value

class

index

xpath

CSS

Action elements for 'hidden' include: 'var'

```
Example 39-1:
```

```
<form name="DetailView">
      <hidden name="record" var="pre activity subpanel id" />
</form>
```

/* there is a hidden field named 'record' in the form and the variable was defined*/

40. Whitelist:

VooDooDriver is able to ignore warnings and errors that you want to ignore using the 'whitelist' element.

Action elements for 'whitelist' include:

add

delete

name

content

action

Example 40-1:

```
<link text="Mr. John" />
<whitelist action="add" name="temp-error">Warning:</whitelist>
      <button id="edit button" />
      <textfield id="description" set="this is a description" />
      <button value="Convert Lead" />
      <buty><br/><br/><br/>dutton value="Save" /></br/>
      <row class="oddListRowS1">
                   <link text="[Select]" />
             </row>
      <whitelist action="delete" name="temp-error" />
/* Here, all the code between the 'whitelist' block containing the word 'Warning:' will be
ignored and deleted so that the warning error doesn't appear on the test report. */
```

41. Assert:

Makes assertions that a specified value exists on the browser window

Example 41-1:

```
<browser url="http://cnn.com" /> //browse to CNN.com
<browser assert="Lastest News" /> //make sure 'Latest News' shows up on page
```

42. JavaScript:

There will be instances where JavaScript is needed to run in the browser of the current webpage.

Enter < javascript > followed by the path of the JavaScript file.

Example 42-1:

```
<browser url="http://www.google.com" /> //browse to Google
<javascript file="C:/users/documents/javascript.js"/>
/*executes a JavaScript command from the file 'javascript.js' and then return back to the
VooDooDriver test file */
```

Directly entering JavaScript commands (as done before using SODA) instead of a file path will continue to work, but will now generate a warning.

43. Drag & Drop (dnd):

VooDooDriver supports drag and drop on a page between panels. At the moment, 'dnd' is only supported on the Windows OS.

Action elements for 'dnd' include:

- src- where you are moving from
- dst- where you are moving to

Example 43-1:

44. Select_List:

Used for accessing a selection list

Refer to a file field by listing one of the following attributes:

- name
- text
- value
- xpath
- Available action elements for select:
 - set
 - jscriptevent

- class
- id
- idex
- CSS

disabled

save

Example 44-1:

```
<select list id="industry" set="Apparel" />
```

/* selection list with the id 'industry' will look for 'Apparel' in the list and set industry equals to Apparel */

45. Execute:

Executes any program from within a test including such things as saving a file, generating data, and csv files.

Start with <execute> and then add the arguments <arg> that you would like.

Example 45-1 (bash script):

</execute>
/* shows a long list and the hidden files in the 'me' directory of 'users'*/

VooDooDriver returns a 0 on success of the 'execute', otherwise the execution has failed.

46. assertpagefile (command line option):

An alternative to hard coding asserts in test files. This command line option calls an xml file that contains all the regular expressions that you want VooDooDriver to either include or exclude from the test report.

Use **<ignore>** to tell VooDooDriver to not make an assert of the values on the page

Use **<checks>** to tell VooDooDriver to make an assert of the page and report them to the log file **<regex>** is for each expression that you want to look for to either include or exclude from reporting

Example 46-1:

```
The xml file you write will look something like:
<soda>
       <ignore>
              <regex>Expiration Notice:</regex>
              <regex>Notice: Your license expires</regex>
              <regex>Warning: Please upgrade</regex>
              <regex>/(Fatal|Error): Your license expired |/</regex>
              <regex>isError</regex>
              <regex>ErrorLink</regex>
              <regex>Warning: Your email settings are not configured to send email</regex>
              <regex>Warning: Missing username and password</regex>
       </ignore>
       <checks>
              <regex>/(Notice:.*line.*)/i</regex>
              <regex>/(Warning:)/i</regex>
              <regex>/(.*Error:.*line.*)/i</regex>
              <regex>/(Error retrieving)/i</regex>
              <regex>/(SQL Error)/i</regex>
       </checks>
</soda>
/* You call this xml file by typing '--assertpagefile=<C:/users/documents/assert_test.xml> ' as
part of the command line after calling your main VooDooDriver test file */
```

Index of Common Action Elements:

Add- used in a whitelist to add any warnings that need to be deleted.

Alert- fires an alert message with the specified string of characters

Assert- asserts that the browser window contains the specified text somewhere on the page

Assertnot- assert the browser window does not contain the specified text **assertPage**- This method checks to see of the browser contains any text for known errors.

Clear- clears the element in a textfield. Use clear="true" to clear.

Click- resembles clicking on a mouse. Use true or false either to click or not to click.

Content- used in a whitelist to access the content.

Default- use in a textfeld to set a default value. For example:

<textfield id="user name" set="{@qa name}" default="admin" />

<textfield id="user password" set="{@qa pass}" default="admin" />

sets the default values for the username and password to 'admin'

Delete- used in a whitelist to delete any warnings or errors that appear on the test report.

Disabled- prevents from further modifying an element.

Jscriptevent- fires a JavaScript event for the control.

Required- often times, an action may not be necessary. The following example:

k text="Basic Search" required="false" /> asks to click the link, but it isn't required in order
to carry on with the testing.

Save- saves an element in a variable using one of its attributes

Set- used namely to fill in text for certain elements.

Unset- removes the set value of a variable.

Timeout- a specified time delay.

Var- declares a variable. Use 'set' to set the value equal to a value.

Vartext- used in span to set a variable. For example:

sets a variable for the class 'pageNumbers'