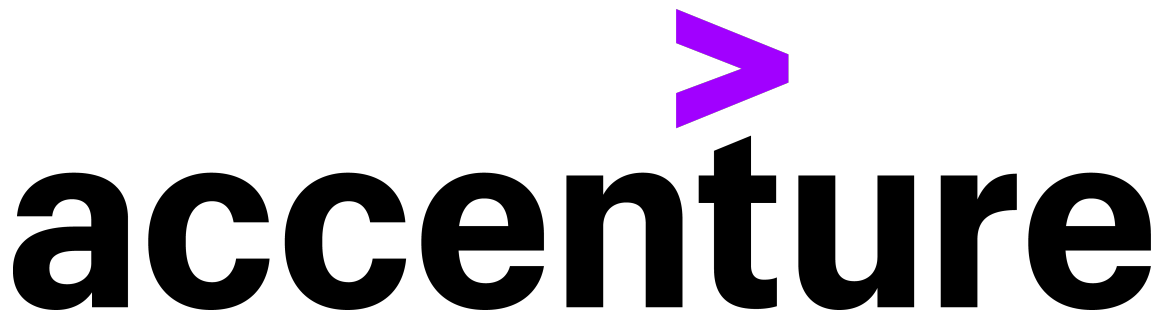


# ALIAS Command Index

The Accenture logo features a purple chevron symbol above the word "accenture" in a bold, lowercase, sans-serif font.The word "ALIAS" is written in a bold, uppercase, sans-serif font with a purple-to-white gradient.

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## Browser Handling

How to open a browser	
<b>Description</b>	A browser window opens to the application specified using the browser selected.
<b>Command</b>	<b>Given</b> a new " <b>Parameter 1</b> " browser is opened for " <b>Parameter 2</b> " application

<b>Parameters description</b>	<ul style="list-style-type: none"> <li>• <b>Parameter 1:</b> Browser selected. Currently you can use "Chrome" and "IE" (Internet Explorer).</li> <li>• <b>Parameter 2:</b> Application selected.</li> </ul>
<b>Example(s)</b>	Given a new "Chrome" browser is opened for "ABMS" application
<b>Notes</b>	<ul style="list-style-type: none"> <li>• In order to add a new application, the environment URL is added to the environments source file. For example, SSP needs a new entry in the source along with the URL to use. This is a one time setting in the environments configurations settings. Please refer to the environments configuration topic.</li> <li>• The application name defines what webelements will be used moving forward. Your model file should have the corresponding matching name. For example. opening "ABMS", will look for webelements generated from the model file with spreadsheets called ABMS.</li> <li>• The landing url page on the new browser opened will be whichever is defined by environment configuration settings.</li> </ul>

[More Topics](#)

<b>How to close a browser</b>	
<b>Description</b>	A browser window is closed. The window will be closed just for the window in context.
<b>Command</b>	<b>Then</b> close the browser
<b>Parameters description</b>	<ul style="list-style-type: none"> <li>• NA</li> </ul>
<b>Example(s)</b>	<b>Then</b> close the browser
<b>Notes</b>	<ul style="list-style-type: none"> <li>• The window that is in context will be closed only.</li> </ul>

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<b>How to capture screenshots</b>	
<b>Description</b>	This command will take a screenshot of the current page of execution.
<b>Command</b>	<b>Then</b> Capture screenshot
<b>Parameters description</b>	<ul style="list-style-type: none"> <li>• NA</li> </ul>
<b>Example(s)</b>	<b>Then</b> Capture screenshot
<b>Notes</b>	<ul style="list-style-type: none"> <li>• A screenshot is taken for the current page when this function is called.</li> </ul>

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<b>How to open, close and navigate on new tab</b>	
<b>Description</b>	A new tab opens to the application specified which can be closed with a reference name and also navigate among them.

<b>Command</b>	<p><b>Then</b> I open a new tab for "<b>Parameter 1</b>" application and refer it as "<b>Parameter 2</b>"</p> <p><b>Then</b> I switch to "<b>Parameter 2</b> or <b>Parameter 3</b>" tab</p> <p><b>Then</b> I close the "<b>Parameter 2</b> or <b>Parameter 3</b>" tab</p>
<b>Parameters description</b>	<ul style="list-style-type: none"> <li>• <b>Parameter 1</b>: Application to be open (SSP, ABMS, PE and other)</li> <li>• <b>Parameter 2</b>: Reference name given by user</li> <li>• <b>Parameter 3</b>: Constant "<b>Home</b>" which is used to make reference to the first tab when the browser is open</li> </ul>
<b>Example(s)</b>	<p><b>Given</b> a new "<b>Chrome</b>" browser is opened for "<b>ABMS</b>" application</p> <p><b>Then</b> I open a new tab for "<b>SSP</b>" application and refer it as "<b>SSPTab1</b>"</p> <p><b>Then</b> Wait for <b>2</b> seconds</p> <p><b>Then</b> I switch to "<b>Home</b>" tab</p> <p><b>Then</b> Wait for <b>2</b> seconds</p> <p><b>Given</b> I am on the "<b>APSP System</b>" page</p> <p><b>Then</b> Wait for 2 seconds</p> <p><b>Then</b> I close the "<b>SSPTab1</b>" tab</p> <p><b>Then</b> Wait for 2 seconds</p>
<b>Notes</b>	<ul style="list-style-type: none"> <li>• In order to add a new application, the environment URL is added to the environments source file. For example, SSP needs a new entry in the source along with the URL to use. This is a one time setting in the environments configurations settings. Please refer to the environments configuration topic.</li> <li>• The application name defines what webelements will be used moving forward. Your model file should have the corresponding matching name. For example. opening "ABMS", will look for webelements generated from the model file with spreadsheets called ABMS.</li> <li>• The landing url page on the new browser opened will be whichever is defined by environment configuration settings.</li> <li>• When closing a tab, It is not needed to be in the target tab.</li> </ul>

## Screen Interaction

How to check a checkbox	
<b>Description</b>	Check a specified checkbox webelement in the page in context.
<b>Command</b>	<p><b>Then</b> check "<b>Parameter 1</b>"</p> <p><b>When</b> I check the checkbox "<b>Parameter 1</b>" and click on the "<b>Parameter 2</b>" button</p>
<b>Parameters description</b>	<ul style="list-style-type: none"> <li>• <b>Parameter 1</b>: checkbox webelement name</li> <li>• <b>Parameter 2</b>: button webelement name</li> </ul>

<b>Example(s)</b>	<p>1) <b>Given</b> I am on the "<b>Personal Information</b>" page</p> <p><b>Then</b> check "<b>Select All</b>"</p> <p>2) <b>Given</b> I am on the "<b>Personal Information</b>" page</p> <p><b>When</b> I check the checkbox "<b>Select All</b>" and click on the "<b>Process</b>" button</p>
<b>Notes</b>	<ul style="list-style-type: none"> <li>• Before this command is used, a page webelement must have been defined. <ul style="list-style-type: none"> <li>• The engine will look for the checkbox webelement in the page currently in context.</li> </ul> </li> <li>• This process was created for convenience when you only need to apply an action in a checkbox, since you do not need to establish a dataset previously. There are alternate ways to check checkboxes, such as populating the checkbox field from a data set, or populating the webpage, which will also check any checkboxes with values in the datasource.</li> </ul>

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How to click webelements	
How to click a webelement (No page context included)	
<b>Description</b>	A webelement defined as a button is clicked.
<b>Command</b>	<p><b>Then</b> I click on the {string} (button link checkbox radio)</p> <p><b>When</b> I click on the {string} (button link checkbox radio)</p>
<b>Parameters description</b>	<ul style="list-style-type: none"> <li>• {string}: Name of the webelement to click.</li> <li>• (button link checkbox radio): Type of webelement clicked (choose one)</li> </ul>
<b>Example(s)</b>	<ul style="list-style-type: none"> <li>• <b>Then</b> I click on the "<b>Login</b>" button</li> <li>• <b>Then</b> I click on the "<b>Message Box</b>" link</li> <li>• <b>Then</b> I click on the "<b>I accept the conditions</b>" checkbox</li> <li>• <b>Then</b> I click on the "<b>Is your mailing address the same as your home address Yes</b>" radio</li> </ul>
<b>Notes</b>	<ul style="list-style-type: none"> <li>• This process will use whichever page elements is in context at the time.</li> </ul>
How to click a webelement (Page context included)	
<b>Description</b>	A webelement defined as a button is clicked and the page where that webelement is located is included.
<b>Command</b>	<b>Then</b> I click on the " <b>Parameter 1</b> " (button link) of the " <b>Parameter 2</b> " page
<b>Parameters description</b>	<ul style="list-style-type: none"> <li>• <b>Parameter 1</b>: Name of the webelement to click.</li> <li>• (button link): Type of webelement to click (choose one)</li> <li>• <b>Parameter 2</b>: Name of the page the webelement is in.</li> </ul>
<b>Example(s)</b>	<ul style="list-style-type: none"> <li>• <b>Then</b> I click on the "<b>Continue</b>" button of the "<b>Sign Up Success</b>" page</li> <li>• <b>Then</b> I click on the "<b>Access my benefits</b>" link of the "<b>SSP Homepage</b>" page</li> </ul>

<b>Notes</b>	<ul style="list-style-type: none"> <li>This process will use the page specifically mentioned to look for the webelement to click on.</li> <li><u><a href="#">This is the recommended approach when clicking elements.</a></u></li> <li>You can use <b>When</b> or <b>Then</b> for the gherkin action.</li> </ul>
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### How to click a button on Popup window

<b>Description</b>	A webelement defined as a button is clicked on the popup
<b>Command</b>	<b>Then</b> I click " <b>Parameter 1</b> " button on the alert window
<b>Parameters description</b>	<b>Parameter 1:</b> Name of the webelement to click.
<b>Example(s)</b>	<b>Then</b> I click " <b>Search</b> " button on the alert window
<b>Notes</b>	<ul style="list-style-type: none"> <li>This process will switch the principal window to alert window to look for the webelement to click on.</li> <li><u><a href="#">This is the recommended approach when clicking elements on alerts window.</a></u></li> <li>You can use <b>Then</b> for the gherkin action.</li> </ul>

### How to click a webelement (parametrized xpath)

<b>Description</b>	A webelement as Button Link Radio Checkbox sometimes can be dynamic and can vary, for this we use the the following command using parameters in Xpaths
<b>Command</b>	<b>Then</b> I click on the " <b>Parameter 1</b> ( <b>button link checkbox radio</b> ) of " <b>Parameter 2</b> " record
<b>Parameters description</b>	<ul style="list-style-type: none"> <li><b>Parameter 1:</b> Name of the webelement to click.</li> <li><b>(button link checkbox radio):</b> Type of webelement clicked (choose one)</li> <li><b>Parameter 2:</b> Parametrized xpath reference.</li> </ul>
<b>Example(s)</b>	<p>Xpath in model: <code>//a[contains(text(), '\$1')]/../td[\$2]</code></p> <p><b>Then</b> I click on the "<b>ButtonName</b>" <b>button</b> of "<b>\$VariableValue::StringValue</b>" record</p> <p>In this example, assuming \$VariableValue contains "Test", the Xpath results as:</p> <p><code>//a[contains(text(), 'Test')]/../td[StringValue]</code></p>
<b>Notes</b>	Variable names should not contain spaces.

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## How to set data in fields

### How to set the data for a field from a value in a dataset in memory

<b>Description</b>	Apply a value to a specified field on the current page in context using the value from dataset currently enabled.
<b>Command</b>	<p><b>Then</b> set data to field "<b>Parameter 1</b>"</p> <p><b>Then</b> I set data to "<b>Parameter 1</b>" field</p>
<b>Parameters description</b>	<ul style="list-style-type: none"> <li><b>Parameter 1:</b> webelement field name</li> </ul>

<b>Example(s)</b>	<p><b>Given</b> I am on the "<b>Personal Information</b>" page</p> <p><b>Then</b> use dataset "<b>Person Data</b>"</p> <p><b>Then</b> set data to field "<b>First Name</b>"</p> <p>-----</p> <p><b>Given</b> I am on the "<b>Personal Information</b>" page</p> <p><b>Then</b> use dataset "<b>Person Data</b>"</p> <p><b>Then</b> I set data to "<b>First Name</b>" field</p>
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<b>Notes</b>	<ul style="list-style-type: none"> <li>• Before this command is used, a page webelement and a datasource must have been defined. <ul style="list-style-type: none"> <li>• The engine will look for the webelement to set the data from the page currently in context.</li> <li>• The engine will look for the value to use from the dataset currently in context</li> </ul> </li> <li>• <u>This process can be used to set the file for a file type webelement in order to upload a file. The file must be previously set in the desired location.</u></li> </ul>
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### How to set the data for a field from a specific value in memory

<b>Description</b>	Apply a value to a specified field on the current page in context using a specific value from dataset currently enabled.
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<b>Command</b>	<b>Then</b> set " <b>Parameter 1</b> " field data using " <b>Parameter 2</b> " variable
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<b>Parameters description</b>	<ul style="list-style-type: none"> <li>• <b>Parameter 1</b>: webelement field name</li> <li>• <b>Parameter 2</b>: value in memory (variable)</li> </ul>
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<b>Example(s)</b>	<p><b>Given</b> I am on the "<b>Personal Information</b>" page</p> <p><b>Then</b> set "<b>First Name</b>" field data using "Randomly Generated First Name" value</p>
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<b>Notes</b>	<ul style="list-style-type: none"> <li>• Before this command is used, a page webelement and a variable must have been defined. <ul style="list-style-type: none"> <li>• The engine will look for the webelement to set the data from the page currently in context.</li> <li>• The engine will look for the value to use from variable previously defined. If it was not previously defined, it will be blank by default.</li> </ul> </li> <li>• <u>This process was created in order to use variables without having to define a dataset for it.</u></li> </ul>
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### How to set the data for a field from a specified value

<b>Description</b>	Apply a value to a specified field on the current page in context using a specific value
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<b>Command</b>	<b>Then</b> set " <b>Parameter 1</b> " field data using " <b>Parameter 2</b> " value
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<b>Parameters description</b>	<ul style="list-style-type: none"> <li>• <b>Parameter 1</b>: webelement field name</li> <li>• <b>Parameter 2</b>: string value to use.</li> </ul>
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<b>Example(s)</b>	<p><b>Given</b> I am on the "<b>Personal Information</b>" page</p> <p><b>Then</b> set "<b>First Name</b>" field data using "<b>David Ceron</b>" value</p>
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<b>Notes</b>	<ul style="list-style-type: none"> <li>• Before this command is used, a page webelement. <ul style="list-style-type: none"> <li>• The engine will look for the webelement to set the data from the page currently in context.</li> <li>• The engine will use the string provided as "parameter 2" as is to populate the fiel.</li> </ul> </li> </ul>
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### How to set the data for a field from a value in a dataset followed by clicking a button

<b>Description</b>	<p>Apply a value to a specified field on the current page in context using the value from dataset currently enabled.</p> <p>This process combines the click button so both actions are done in sequence in the same process.</p>
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<b>Command</b>	<b>Then</b> I set {string 1} field data and click {string 2} (button link)
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<b>Parameters description</b>	<ul style="list-style-type: none"> <li>• <b>{string 1}</b>: webelement field name</li> <li>• <b>{string 2}</b>: webelement button/link to click on</li> <li>• <b>(button link)</b>: Type of webelement to perform the click action on. Chose one.</li> </ul>
<b>Example(s)</b>	<p><b>Given</b> I am on the <b>"Personal Information"</b> page</p> <p><b>Then</b> use dataset <b>"Person Data"</b></p> <p><b>Then</b> set data to field <b>"First Name"</b> and click <b>"Add First Name" button</b></p> <p><b>Then</b> set data to field <b>"Social Security Number"</b> and click <b>"Submit" link</b></p>
<b>Notes</b>	<ul style="list-style-type: none"> <li>• Before this command is used, a page webelement and a datasource must have been defined. <ul style="list-style-type: none"> <li>• The engine will look for the webelement to set the data from the page currently in context.</li> <li>• The engine will look for the value to use from the dataset currently in context</li> </ul> </li> <li>• This process was created for convenience and simplification of these 2 actions which usually go in sequence.</li> </ul>

[More Topics](#)

How to set the data for a full webpage																																	
How to set the data for a full webpage using the dataset in context																																	
<b>Description</b>	Populate all fields in the webpage specified by looking for the values from the datasource currently in context.																																
<b>Command</b>	<b>Then</b> set data to <b>"Parameter 1"</b> page																																
<b>Parameters description</b>	<ul style="list-style-type: none"> <li>• <b>"Parameter 1"</b>: webpage name</li> </ul>																																
<b>Example(s)</b>	<p><b>Then</b> use dataset <b>"Person Data"</b></p> <p><b>Then</b> set data to <b>"Personal Information"</b> page</p>																																
<b>Notes</b>	<ul style="list-style-type: none"> <li>• When populating the fields of the page, the engine will use whichever order is specified in the model page.</li> <li>• When populating the fields of the page, the engine only takes into account text type webelements. It will ignore buttons, links or other type of webelements.</li> <li>• When populating the fields of the page, the engine will use the datasource reference to look for that value in the data set. <ul style="list-style-type: none"> <li>• For example, if "Person Information" page has 3 text webelements, it will look for these in the data set and use those values.</li> </ul> </li> </ul> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p><small>MODEL FILE</small></p> <table border="1"> <thead> <tr> <th>ScreenName</th> <th>Label</th> <th>FieldName</th> <th>Type[Text/Button/Ch is Multiple_Version/ Create/Upd Xpath]</th> <th>WaitTime</th> </tr> </thead> <tbody> <tr> <td>283 Personal Information</td> <td>Date of Birth</td> <td>Date of Birth</td> <td>Text</td> <td>3</td> </tr> <tr> <td>284 Personal Information</td> <td>First Name</td> <td>First Name</td> <td>Text</td> <td>3</td> </tr> <tr> <td>285 Personal Information</td> <td>Last Name</td> <td>Last Name</td> <td>Text</td> <td>3</td> </tr> </tbody> </table> <p><small>DATASOURCE</small></p> <table border="1"> <thead> <tr> <th>A</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>1 Field Name</td> <td>Smoke Integrated Application</td> </tr> <tr> <td>2 SSP</td> <td></td> </tr> <tr> <td>3 Date of Birth</td> <td>01/01/2010</td> </tr> <tr> <td>4 First Name</td> <td>Kid</td> </tr> <tr> <td>5 Last Name</td> <td>Ceron</td> </tr> </tbody> </table> </div>	ScreenName	Label	FieldName	Type[Text/Button/Ch is Multiple_Version/ Create/Upd Xpath]	WaitTime	283 Personal Information	Date of Birth	Date of Birth	Text	3	284 Personal Information	First Name	First Name	Text	3	285 Personal Information	Last Name	Last Name	Text	3	A	C	1 Field Name	Smoke Integrated Application	2 SSP		3 Date of Birth	01/01/2010	4 First Name	Kid	5 Last Name	Ceron
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How to refresh/update the data for a full webpage using the dataset in context																																	
<b>Description</b>	Update all fields in the webpage specified by looking for the values from the datasource currently in context.																																
<b>Command</b>	<b>Then</b> Update Data to <b>"Parameter 1"</b> page																																
<b>Parameters Description</b>	<b>"Parameter 1"</b> : webpage name																																
<b>Example(s)</b>	<p><b>Then</b> use dataset <b>"Person Data"</b></p> <p><b>Then</b> Update data to <b>"Personal Information"</b> page</p>																																
<b>Notes</b>																																	



## How to set the data for a full webpage using the dataset in context followed by a button click

<b>Description</b>	Populate all fields in the webpage specified by looking for the values from the datasource currently in context followed by a click to a webelement specified.																														
<b>Command</b>	<b>Then</b> I set data to the " <b>Parameter 1</b> " page and click the " <b>Parameter 2</b> " button																														
<b>Parameters description</b>	<ul style="list-style-type: none"> <li>• "<b>Parameter 1</b>": webpage name</li> <li>• "<b>Parameter 2</b>": webelement to click present in the same page</li> </ul>																														
<b>Example(s)</b>	<p><b>Then</b> use dataset "<b>Person Data</b>"</p> <p><b>Then</b> I set data to the "<b>Personal Information</b>" page and click the "<b>Save and Continue</b>" button</p>																														
<b>Notes</b>	<ul style="list-style-type: none"> <li>• You can use Then or When from Gherkins.</li> <li>• When populating the fields of the page, the engine will use whichever order is specified in the model page.</li> <li>• When populating the fields of the page, the engine only takes into account text type webelements. It will ignore buttons, links or other type of webelements.</li> <li>• When populating the fields of the page, the engine will use the datasource reference to look for that value in the data set.             <ul style="list-style-type: none"> <li>• For example, if "Person Information" page has 3 text webelements, it will look for these in the data set and use those values.</li> </ul> </li> </ul> <div style="border: 1px solid black; padding: 5px; margin: 10px 0;"> <p><b>MODEL FILE</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>ScreenName</th> <th>Label</th> <th>fieldName</th> <th>Type(Text/Button/Ch is Multiple_Version Create/Upd Xpath</th> <th>WaitTime (</th> </tr> </thead> <tbody> <tr> <td>283 Personal Information</td> <td>Date of birth</td> <td>Date of Birth</td> <td>Text N 1 Both //*/@id='dateOfBirth']</td> <td>3</td> </tr> <tr> <td>284 Personal Information</td> <td>First Name</td> <td>First Name</td> <td>Text N 1 Both //*/@id='firstName']</td> <td>3</td> </tr> <tr> <td>285 Personal Information</td> <td>Last Name</td> <td>Last Name</td> <td>Text N 1 Both //*/@id='lastName']</td> <td>3</td> </tr> </tbody> </table> <p><b>DATASOURCE</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Field Name</th> <th>Smoke Integrated Application</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>SSP</td> </tr> <tr> <td>2</td> <td>01/01/2010</td> </tr> <tr> <td>3</td> <td>Kid</td> </tr> <tr> <td>4</td> <td>Ceron</td> </tr> </tbody> </table> </div> <ul style="list-style-type: none"> <li>• The webelement to click must be part of the same page that is being populated.</li> <li>• This process was created for convenience to combine in sequence two of the most used processes, populate a page following by a button click.</li> </ul>	ScreenName	Label	fieldName	Type(Text/Button/Ch is Multiple_Version Create/Upd Xpath	WaitTime (	283 Personal Information	Date of birth	Date of Birth	Text N 1 Both //*/@id='dateOfBirth']	3	284 Personal Information	First Name	First Name	Text N 1 Both //*/@id='firstName']	3	285 Personal Information	Last Name	Last Name	Text N 1 Both //*/@id='lastName']	3	Field Name	Smoke Integrated Application	1	SSP	2	01/01/2010	3	Kid	4	Ceron
ScreenName	Label	fieldName	Type(Text/Button/Ch is Multiple_Version Create/Upd Xpath	WaitTime (																											
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285 Personal Information	Last Name	Last Name	Text N 1 Both //*/@id='lastName']	3																											
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1	SSP																														
2	01/01/2010																														
3	Kid																														
4	Ceron																														

[More Topics](#)

## How to capture data from page into a variable

<b>Description</b>	Capture data from a page into a variable. The variable may be new or part of an existing dataset.
<b>Command</b>	<b>Then</b> Capture " <b>Parameter 1</b> " data into " <b>Parameter 2</b> " variable
<b>Parameters description</b>	<ul style="list-style-type: none"> <li>• "<b>Parameter 1</b>": It's the webelement that we want to capture.</li> <li>• "<b>Parameter 2</b>": It's the variable name in which the Parameter 1 value is saved.</li> </ul>
<b>Example(s)</b>	<p><b>Given</b> I am on the "<b>Web Information</b>" page</p> <p><b>Then</b> Capture "<b>Begin Date value</b>" data into "<b>Begin Date</b>" variable</p> <ul style="list-style-type: none"> <li>• This will capture the value of specific webelement and will be stored in Begin Date variable. This variable can be used afterwards.</li> </ul>
<b>Notes</b>	<p>Before this command is used, a page webelement must have been defined.</p> <ul style="list-style-type: none"> <li>• The engine will look for the webelement to set the data from the page currently in context.</li> </ul>

[More Topics](#)

## How to clear data from text field

<b>Description</b>	This function clears the data contained in a text field.
<b>Command</b>	<b>Then</b> Clear data from " <b>Parameter 1</b> " text field
<b>Parameters description</b>	<ul style="list-style-type: none"> <li>• <b>Parameter 1</b>: Is the text field webelement.</li> </ul>
<b>Example(s)</b>	<p><b>Then</b> Clear data from "<b>First Name</b>" text field</p> <p>For this case, the engine will clear the values in First Name.</p>
<b>Notes</b>	This function applies for text fields only.

[More Topics](#)

## How to interact with a Popup Window

### How to declare Popup elements in the model

<b>Description</b>	Declare a webelement to interact with it from a popup window, using commands previously exposed.
<b>Commands</b>	<p><b>Given</b> I am on the "<b>Screen Name</b>" page</p> <p><b>Then</b> I should be on the "<b>Screen Name</b>" page</p> <p><b>Then</b> I click on the "<b>Parameter 1</b>" (<b>button link</b>) of the "<b>Screen Name</b>" page</p> <p><b>Then</b> set data to "<b>Screen Name</b>" page</p> <p><b>Then</b> I set data to the "<b>Screen Name</b>" page and click the "<b>Parameter 1</b>" button</p>
<b>Parameters description</b>	<ul style="list-style-type: none"> <li>• <b>Given/Then</b>: It depends on how you need to interact with the popup window.</li> <li>• <b>Parameter 1</b>: Name of the webelement to interact with.</li> <li>• <b>Screen Name</b>: The screen name without "Popup" word should be specified.</li> </ul>
<b>Example(s)</b>	<p><b>Then</b> I should be on the "<b>Personal Information</b>" page</p> <p><b>Given</b> I am on the "<b>Personal Information</b>" page</p> <p><b>Then</b> I set data to "<b>Last Name</b>" field</p> <ul style="list-style-type: none"> <li>• In this example, the engine will look for the "Last Name" properties that belong to the popup window "Personal Information."</li> </ul> <p><b>Then</b> I click on the "<b>Parameter 1</b>" (<b>button link</b>) of the "<b>Web Information</b>" page</p>
<b>Notes</b>	<p>Before this command is used, a page webelement must have been defined. The webelement in model must be declared with "Popup" word at the end of the actual screen name. In the script the screen name should be called without the "Popup" word.</p> <ul style="list-style-type: none"> <li>• The engine will look for the element in the popup window automatically</li> </ul>

[More Topics](#)

### How to capture a string data from popup into a variable

<b>Description</b>	Capture data from a popup into a variable. The variable may be new or part of an existing dataset.
<b>Command</b>	<p><b>Given</b> I am on the "<b>Alert Window</b>" page</p> <p><b>Then</b> Capture "<b>Parameter 1</b>" data from "<b>Parameter 2</b>" frame to "<b>Parameter 3</b>" variable</p>

<b>Parameters description</b>	<ul style="list-style-type: none"> <li>• <b>"Parameter 1"</b>: It's the webelement that we want to capture</li> <li>• <b>"Parameter 2"</b>: It's the frame name in which the Parameter 1 value belongs to.</li> <li>• <b>"Parameter 3"</b>: It's the variable name in which the value is saved..</li> </ul>
<b>Example(s)</b>	<p><b>Then</b> Capture <b>"Type"</b> data from <b>"Table Info"</b> frame to <b>"TypeVar"</b> variable</p> <p>For this case, the engine will capture the webelement called Type, looking into the Table Info frame and save it in TypeVar variable.</p>
<b>Notes</b>	For use this command, the page/popup must be in context using the comand <b>Given</b> I am on the <b>"PageName"</b> page

**More Topics**

<b>How to use parameterized XPath for Buttons</b>	
<b>Description</b>	<p>This can be used in scenarios where we have same operations for different rows. For eg. we can have Edit buttons for a person's Physical and Mailing Address.</p> <p>You can use as many parameters as you want.</p>
<b>Command</b>	<ol style="list-style-type: none"> <li>1. <b>When</b> I click on the <b>"Button Name"</b> button of <b>"Parameter 1::Parameter 2"</b> record</li> <li>2. <b>Capture</b> <b>"Element"</b> data of <b>"Parameter 1::Parameter 2"</b> record into <b>"Variable"</b> variable</li> </ol>
<b>Parameters description</b>	<p><b>When/Capture:</b> It depends on if you need to click on the element or capture the value.</p> <ul style="list-style-type: none"> <li>• <b>Button Name:</b> Element to be clicked</li> <li>• <b>Parameter 1::Parameter 2:</b> Parameters separated by ::</li> <li>• <b>Element:</b> Element whose value needs to be captured.</li> <li>• <b>Parameter 1::Parameter 2:</b> Parameters separated by ::</li> </ul> <p><b>Variable:</b> Variable into which the value of the element should be stored.</p>
<b>Example(s)</b>	<ol style="list-style-type: none"> <li>1. Come up with a xpath that uniquely identifies the element for eg : <code>//a[contains(text(),'\$1')]/../td[\$2]/a</code>. Here, please note that \$1 is within " and \$2 is without quotes.</li> <li>1. :: should be used as parameter separators. The step in the feature file would be as shown below :</li> </ol> <p><b>For clicking :</b></p> <p><i>When I click on the "Edit Program Person" button of "\$First Name::6" record</i></p> <p>This means that there are 2 parameters in the xpath and \$1 will be replaced with value of First Name variable(since this itself is a variable), and \$2 will be replaced with 6.</p> <p>The final generated xpath will look like : <code>//a[contains(text(),'RGXHWXUJJ')]/../td[6]/a</code></p> <p><b>For Capturing Value:</b></p> <p>Capture "ABC" data of "param1::param2" record into "var" variable</p>
<b>Notes</b>	

<b>How to use parameterized XPath for web elements</b>	
<b>Description</b>	<p>This can be used in scenarios where we want to use an xpath for a webelement, and pass values to the replace parts to the xpath during run time.</p> <p>You can use as many parameters as you want for the webelement xpath.</p>

<p><b>Command</b></p>	<ol style="list-style-type: none"> <li>1. <b>Given</b> I am on the "<b>Web page</b>" page</li> <li>2. <b>Then</b> use record "<b>Parameter 1::Parameter 2</b>" for "<b>Webelement</b>"</li> <li>3. <b>Then</b> I click on the "<b>Webelement</b>" <b>button</b></li> </ol> <p>Model entry:</p> <p>Xpath: //a[contains(text(),'\$1')]/../td[\$2]/</p>
<p><b>Parameters description</b></p>	<p><b>Given:</b> Relates to the page displayed. This is important since ALIAS needs to know what webpage the webelement belongs to.</p> <p><b>Then:</b> Continues with a command for the referred page</p> <ul style="list-style-type: none"> <li>• <b>Parameter 1::Parameter 2:</b> Parameters separated by :: . These are the values that will be used in the xpath in the order specified. <ul style="list-style-type: none"> <li>• <b>Parameter 1</b> will replace <b>\$1</b> in the xpath</li> <li>• <b>Parameter 2</b> will replace <b>\$2</b> in the xpath</li> </ul> </li> <li>• <b>Webelement:</b> Webelement whose value needs to be captured.</li> </ul>
<p><b>Example(s)</b></p>	<ol style="list-style-type: none"> <li>1. Come up with a XPath for Relationship Table, eg: <code>//*[@\$1="\$2"]</code>. Just the money sign and number is required.</li> <li>2. <code>::</code> should be used as parameter separators. The step in the feature file would be as shown below :</li> </ol> <p><b>For Clicking elements</b></p> <p><b>Given</b> I am on the "<b>Personal Information</b>" page</p> <p><b>Then</b> use record "<b>\$FirstName::6</b>" for "<b>Save and Continue</b>"</p> <p><b>Then</b> I click on the "<b>Save and Continue</b>" <b>button</b></p> <p>Model entry:</p> <p>Xpath: //a[contains(text(),'\$1')]/../td[\$2]/</p> <p>Resulting xpath during execution:</p> <p>Xpath: //a[contains(text(),'<b>David</b>')]/../td[<b>6</b>]/</p> <p><b>For Tables</b></p> <p><b>Given</b> I am on the "<b>Household Relationships</b>" page</p> <p><b>Then</b> use "<b>class::relationshipTable</b>" record for "<b>Relationship Table</b>"</p> <p>Model entry:</p> <p>Xpath: //a[contains(text(),'\$1')]/../\$2/</p> <p>Resulting xpath during execution:</p> <p>Xpath: //a[contains(text(),'<b>class</b>')]/../<b>relationship Table</b>/</p>

<b>Notes</b>	<p>This command basically places the desired xpath values inside the page object that is currently in context.</p> <p>Because of this, if a command that uses a webpage is used, it will immediately clear the existing xpaths already set for it's webelements (as well as other values assigned).</p> <p>Using a command that establishes or uses a webpage, will always create that webpage object, hence, replacing any webpage object that exists with the same name.</p> <p>For example, the following flow of commands will result in the xpath for "Save and Continue" to NOT have values for it's xpath because the command used "recreates" the "Personal Information" page</p> <p><b>Given</b> I am on the "<b>Personal Information</b>" page</p> <p><b>Then</b> use record "<b>\$FirstName::6</b>" for "<b>Save and Continue</b>"</p> <p><b>Then</b> I click on the "<b>Save and Continue</b>" button of the "<b>Personal Information</b>" page</p> <p>Model entry for "Save and Continue":</p> <p>Xpath: <code>//a[contains(text(), '\$1')]/../\$2/</code></p> <p>Resulting xpath during execution for "Save and Continue":</p> <p>Xpath: <code>//a[contains(text(),)]/../../</code></p>
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## Data Handling

How to define a data source	
How to define a data source for an excel file using specific column number or column name	
<b>Description</b>	Defines the data source for a particular dataset using excel file that is called later in the script.
<b>Command</b>	<b>Then</b> define the data source for " <b>Parameter 1</b> " as file " <b>Parameter 2</b> " with spreadsheet " <b>Parameter 3</b> " and column <b>{integer-number}</b> { <b>String</b> }
<b>Parameters description</b>	<ul style="list-style-type: none"> <li>• <b>Parameter 1</b>: dataset name as it will be referred to in the feature script.</li> <li>• <b>Parameter 2</b>: source file with folder location specified. Note that the default folder is "SourceDataFiles" inside the ALIAS project. Any path added will use "SourceDataFiles" folder as it's root.</li> <li>• <b>Parameter 3</b>: spreadsheet (tab) name in source excel file.</li> <li>• <b>{integer-number}</b> <b>{String}</b>: column number or column name in the source excel file. If column is not specified, the engine will look for the column where the first line (header) that matches the name used for the script.</li> </ul>
<b>Example(s)</b>	<p>Using Column number:</p> <ul style="list-style-type: none"> <li>• <b>Then</b> define the data source for "<b>Person 1 Data</b>" as file "<b>SMOKE_DATA/ABMS_CaseCreation_Generic.xlsx</b>" with spreadsheet "<b>ABMS_Pers1</b>" and column <b>1</b></li> <li>• <b>Then</b> define the data source for "<b>ABMS Login Data</b>" as file "<b>DataSource_PE.xlsx</b>" with spreadsheet "<b>ABMS_Login</b>" and column <b>1</b></li> <li>• <b>Then</b> define the data source for "<b>ABMS Login Data</b>" as file "<b>DataSource_PE.xlsx</b>" with spreadsheet "<b>ABMS_Login</b>"</li> </ul> <p>Using Column name:</p> <ul style="list-style-type: none"> <li>• <b>Then</b> define the data source for "<b>Person 1 Data</b>" as file "<b>SMOKE_DATA/ABMS_CaseCreation_Generic.xlsx</b>" with spreadsheet "<b>ABMS_Pers1</b>" and column "<b>Scenario01</b>"</li> <li>• <b>Then</b> define the data source for "<b>ABMS Login Data</b>" as file "<b>DataSource_PE.xlsx</b>" with spreadsheet "<b>ABMS_Login</b>" and column "<b>Scenario01</b>"</li> </ul>
<b>Notes</b>	In the engine logic, excel columns are numbered starting from 0. Therefore, the first excel column (column A) is column 0, and the second column (Column B) is column 1.
How to define a data source for an csv file using specific column number or column name	

<b>Description</b>	Defines the data source for a particular dataset using csv file that is called later in the script.
<b>Command</b>	<b>Then</b> define the data source for " <b>Parameter 1</b> " as file " <b>Parameter 2</b> " with column <b>{integer-number}{String}</b>
<b>Parameters Description</b>	<ul style="list-style-type: none"> <li>• <b>Parameter 1</b>: dataset name as it will be referred to in the feature script.</li> <li>• <b>Parameter 2</b>: source file with folder location specified. Note that the default folder is "SourceDataFiles" inside the ALIAS project. Any path added will use "SourceDataFiles" folder as it's root.</li> <li>• <b>{integer-number} {String}</b>: column number or column name in the source excel file.</li> </ul>
<b>Example(s)</b>	<p>Using Column number:</p> <ul style="list-style-type: none"> <li>• <b>Then</b> define the data source for "<b>Person 1 Data</b>" as file "<b>SMOKE_DATA/ABMS_CaseCreation_Generic.xlsx</b>" with column <b>1</b></li> <li>• <b>Then</b> define the data source for "<b>ABMS Login Data</b>" as file "<b>DataSource_PE.xlsx</b>" with column <b>1</b></li> </ul> <p>Using Column name:</p> <ul style="list-style-type: none"> <li>• <b>Then</b> define the data source for "<b>Person 1 Data</b>" as file "<b>SMOKE_DATA/ABMS_CaseCreation_Generic.xlsx</b>" with column "<b>Scenario01</b>"</li> <li>• <b>Then</b> define the data source for "<b>ABMS Login Data</b>" as file "<b>DataSource_PE.xlsx</b>" with column "<b>Scenario01</b>"</li> </ul>
<b>Notes</b>	In the engine logic, excel columns are numbered starting from 0. Therefore, the first excel column (column A) is column 0, and the second column (Column B) is column 1.

### How to define a data source randomly for an excel file using a range of column

<b>Description</b>	Defines the data source for a particular range of columns that is called later in the script. It will select a column randomly.
<b>Command</b>	<b>Then</b> define the data source for " <b>Parameter 1</b> " as file " <b>Parameter 2</b> " with spreadsheet " <b>Parameter 3</b> " and dataset index between <b>{integer-number1}</b> and <b>{integer-number2}</b>
<b>Parameters description</b>	<ul style="list-style-type: none"> <li>• <b>Parameter 1</b>: dataset name as it will be referred to in the feature script.</li> <li>• <b>Parameter 2</b>: source file with folder location specified. Note that the default folder is "SourceDataFiles" inside the ALIAS project. Any path added will use "SourceDataFiles" folder as it's root.</li> <li>• <b>Parameter 3</b>: spreadsheet (tab) name in source excel file.</li> <li>• <b>{integer-number1}</b>: column number in the source excel file indicating the beginning of the range.</li> <li>• <b>{integer-number2}</b>: column number in the source excel file indicating the ending of the range.</li> </ul>
<b>Example</b>	<b>Then</b> define the data source for " <b>Person 1 Data</b> " as file " <b>SMOKE_DATA/ABMS_CaseCreation_Generic.xlsx</b> " with spreadsheet " <b>ABMS_Pers1</b> " and dataset index between <b>2</b> and <b>4</b>
<b>Notes</b>	<p>In the engine logic, excel columns are numbered starting from 0. Therefore, the first excel column (column A) is column 0, and the second column (Column B) is column 1.</p> <p>So, if we define the range of columns, the engine will select a column data randomly, the selection includes the index range.</p>

### How to define a data source randomly for an csv file using a range of column

<b>Description</b>	Defines the data source for a particular range of columns that is called later in the script. It will select a column randomly.
<b>Command</b>	<b>Then</b> define the data source for " <b>Parameter 1</b> " as file " <b>Parameter 2</b> " and dataset index between <b>{integer-number1}</b> and <b>{integer-number2}</b>
<b>Parameters description</b>	<ul style="list-style-type: none"> <li>• <b>Parameter 1</b>: dataset name as it will be referred to in the feature script.</li> <li>• <b>Parameter 2</b>: source file with folder location specified. Note that the default folder is "SourceDataFiles" inside the ALIAS project. Any path added will use "SourceDataFiles" folder as it's root.</li> <li>• <b>{integer-number1}</b>: column number in the source excel file indicating the beginning of the range.</li> <li>• <b>{integer-number2}</b>: column number in the source excel file indicating the ending of the range.</li> </ul>
<b>Example</b>	<b>Then</b> define the data source for " <b>Person 1 Data</b> " as file " <b>SMOKE_DATA/ABMS_CaseCreation_Generic.xlsx</b> " and dataset index between <b>2</b> and <b>4</b>
<b>Notes</b>	<p>In the engine logic, excel columns are numbered starting from 0. Therefore, the first excel column (column A) is column 0, and the second column (Column B) is column 1.</p> <p>So, if we define the range of columns, the engine will select a column data randomly, the selection includes the index range.</p>

[More Topics](#)

## How to define a lookup source

### How to define a lookup source for an excel file

<b>Description</b>	Defines a lookup source particular dataset using excel file that is called later in the script.
<b>Command</b>	<b>Then</b> define the lookup source for " <b>Parameter 1</b> " as file " <b>Parameter 2</b> " with spreadsheet " <b>Parameter 3</b> "
<b>Parameters description</b>	<ul style="list-style-type: none"><li>• <b>Parameter 1</b>: dataset name as it will be referred to in the feature script.</li><li>• <b>Parameter 2</b>: source file with folder location specified. Note that the default folder is "SourceDataFiles" inside the ALIAS project. Any path added will use "SourceDataFiles" folder as it's root.</li><li>• <b>Parameter 3</b>: spreadsheet (tab) name in source excel file.</li></ul>
<b>Example(s)</b>	<b>Then</b> define the lookup source for " <b>Person 1 Data</b> " as file " <b>SMOKE_DATA/ABMS_CaseCreation_Generic.xlsx</b> " with spreadsheet " <b>ABMS_Pers1</b> "
<b>Notes</b>	In the engine logic, the columns names should not be empty.

### How to define a lookup source for an csv file

<b>Description</b>	Defines a lookup source particular dataset using csv file that is called later in the script.
<b>Command</b>	<b>Then</b> define the lookup source for " <b>Parameter 1</b> " as file " <b>Parameter 2</b> "
<b>Parameters description</b>	<ul style="list-style-type: none"><li>• <b>Parameter 1</b>: dataset name as it will be referred to in the feature script.</li><li>• <b>Parameter 2</b>: source file with folder location specified. Note that the default folder is "SourceDataFiles" inside the ALIAS project. Any path added will use "SourceDataFiles" folder as it's root.</li></ul>
<b>Example(s)</b>	<b>Then</b> define the lookup source for " <b>Person 1 Data</b> " as file " <b>SMOKE_DATA/ABMS_CaseCreation_Generic.xlsx</b> "
<b>Notes</b>	In the engine logic, the columns names should not be empty.

[More Topics](#)

### How to define the name of script

<b>Description</b>	Define the name of the cucumber script at the beginning of the script.
<b>Command</b>	<b>Then</b> define the script name as " <b>Parameter 1</b> "
<b>Parameters description</b>	<ul style="list-style-type: none"><li>• <b>Parameter 1</b>: It's the script name</li></ul>
<b>Example(s)</b>	<b>Then</b> define the script name as " <b>Alias Script</b> "
<b>Notes</b>	

[More Topics](#)

## How to use datasources

### How to use the defined data source

<b>Description</b>	Defines the data source to use in the following steps in the script. This dataset can be exchanged at any point.
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<b>Command</b>	<b>Then</b> use dataset " <b>Parameter 1</b> "
<b>Parameters description</b>	<ul style="list-style-type: none"> <li><b>Parameter 1</b>: dataset source as defined in the feature script.</li> </ul>
<b>Example(s)</b>	<ul style="list-style-type: none"> <li><b>Then</b> use dataset "<b>Person 1 Data</b>"</li> </ul>
<b>Notes</b>	<ul style="list-style-type: none"> <li>You can switch between datasets as needed throughout the flow of your scenario.</li> </ul>

## How to replace a datasource reference with another datasource defined

<b>Description</b>	Replace an existing datasource reference for another one. This is mainly used when trying to use a scenario previously created which uses a datasource.
<b>Command</b>	<b>Then</b> use dataset " <b>Parameter 1</b> " for " <b>Parameter 2</b> "
<b>Parameters description</b>	<ul style="list-style-type: none"> <li><b>Parameter 1</b>: dataset source as defined in the feature script.</li> <li><b>Parameter 2</b>: dataset source to be replaced.</li> </ul>
<b>Example(s)</b>	<ul style="list-style-type: none"> <li><b>Then</b> use dataset "<b>Applications Data</b>" for "<b>ABMS Login Data</b>" <ul style="list-style-type: none"> <li>In this example, we have a scenario previously created which made reference to a dataset called "ABMS Login Data."</li> <li>The scenario that is referring to this previously existing scenario is specifying that instead of using the datasource the existing scenario previously had, it will now use "Application Data" instead</li> </ul> </li> </ul> <pre> Background:   Then define the script name as "Existing Script"   Then define the data source for "ABMS Login" as file "Datasource.xlsx" with spreadsheet "ABMS Login" and column 1  Scenario: Existing Scenario   Then use dataset "ABMS Login Data"   Given I am on the "APSP Login" page   Then use dataset "ABMS Login Data"   Then I set data to the "APSP Login" page and click the "Login" button  Background:   Then define the script name as "New Script"   Then define the data source for "Applications Data" as file "NewDatasource.xlsx" with spreadsheet "Applications Login" and column 1  Scenario: New Scenario   Then use dataset "Applications Data" for "ABMS Login Data"   Then Existing Scenario </pre>
<b>Notes</b>	<ul style="list-style-type: none"> <li>Parameter 1 and Parameter 2 should not have the same name.</li> <li>If no datasource is defined for the existing scenario, it will look for the original datasource it used. If it's not present, the script will stop.</li> </ul>

[More Topics](#)

## How to concatenate String values into a single String variable

<b>Description</b>	Concatenate (combine) two String variables into a single String variable separated by a space.
<b>Command</b>	<b>Then</b> Concat " <b>Parameter 1</b> " and " <b>Parameter 2</b> " values into " <b>Parameter 3</b> " variable
<b>Parameters description</b>	<ul style="list-style-type: none"> <li><b>Parameter 1</b>: variable name for first concatenation component</li> <li><b>Parameter 2</b>: variable name for second concatenation component</li> <li><b>Parameter 3</b>: variable name for the combination of first and second components separated by space.</li> </ul>
<b>Example(s)</b>	<b>Then</b> Concat " <b>First Name Person 1</b> " and " <b>Last Name Person 1</b> " values into " <b>Full Name Person 1</b> " variable <ul style="list-style-type: none"> <li>"<b>First Name Person 1</b>" contains "<b>David</b>"</li> <li>"<b>Last Name Person 1</b>" contains "<b>Ceron</b>"</li> <li>"<b>Full Name Person 1</b>" will contain "<b>David Ceron</b>"</li> </ul>



<b>Notes</b>	<ul style="list-style-type: none"> <li>This function was originally requested specifically to address names concatenation by some applications.</li> </ul>
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[More Topics](#)

<b>How to set a value to a variable</b>	
<b>Description</b>	Set a string value to specific variable.
<b>Command</b>	<b>Then</b> I set " <b>Parameter 1</b> " to " <b>Parameter 2</b> " variable
<b>Parameters description</b>	<ul style="list-style-type: none"> <li><b>Parameter 1</b>: any string value</li> <li><b>Parameter 2</b>: name of the variable</li> </ul>
<b>Example(s)</b>	<p><b>Then</b> I set "<b>FN1</b>" to "<b>First Name</b>" variable</p> <p>With this command, the variable First Name will contain FN1 value.</p>
<b>Notes</b>	

[More Topics](#)

<b>Generate random values</b>	
<b>How to generate a random string by using a pattern</b>	
<b>Description</b>	<p>Generate randomly generated values based on a pattern and store it in a variable. The variable may be new or part of an existing dataset.</p> <p>This function can also generate random values between a range of values.</p>
<b>Command</b>	<p><b>Then</b> Generate random name of "<b>{Pattern}</b>" characters and save it into "<b>Parameter 1</b>" variable</p> <p><b>Then</b> Generate random name of "<b>{Index1 - Index2}</b>" characters and save it into "<b>Parameter 1</b>" variable</p>
<b>Parameters description</b>	<p><b>{Pattern}</b> : The pattern will generate random values as follows:</p> <ul style="list-style-type: none"> <li>A will be replaced for a random upper case letter (A-Z).</li> <li>a will be replaced for a random lower case letter (a-z).</li> <li>N will be replaced for a random single digit (0-9)</li> <li>Characters outside of the curly brackets will be ignored.</li> <li>Within the curly brackets, characters that are not "A", "a" or "N" will be ignored.</li> </ul> <p><b>{Index1 - Index2}</b> : The Index1 and Index2 will define a range of values including the index values.</p> <p><b>Parameter 1</b>: Variable where the resulting generated value will be stored. If the value for the variable provided overlaps with a value in a dataset, the variable value will override the value in the dataset. i.e., placing the generated value in "User Name" will replace the value "User Name" originally had from the dataset.</p>
<b>Example(s)</b>	<p><b>Then</b> Generate random name of "<b>{AAAa}FN</b>" characters and save it into "<b>First Name</b>" variable</p> <ul style="list-style-type: none"> <li>This will generate a random value with 4 random characters followed by FN - i.e. ZWQsFN</li> </ul> <p><b>Then</b> Generate random name of "<b>{7NN-NN-NNNN}</b>" characters and save it into "<b>Social Security Number</b>" variable</p> <ul style="list-style-type: none"> <li>This will generate a random value with starting with 7, followed by 8 random characters - i.e. 741-14-6123</li> </ul> <p><b>Then</b> Generate random name of "<b>{4-300}</b>" characters and save it into "<b>Amount</b>" variable</p> <ul style="list-style-type: none"> <li>This will generate a random value with starting with 4 and ending in 300- i.e. 266</li> </ul>
<b>Notes</b>	<ul style="list-style-type: none"> <li>Randomly generated values exist only in the context of the scenario they are created in, and will not be available outside of the scenario where the value is generated in.</li> </ul>

[More Topics](#)

How to add data into a variable	
<b>Description</b>	Add more characters to variable
<b>Command</b>	<b>Then</b> Append " <b>Parameter 1</b> " text to " <b>Parameter 2</b> " variable
<b>Parameters description</b>	<ul style="list-style-type: none"> <li>• "<b>Parameter 1</b>": Is the value that will be added</li> <li>• "<b>Parameter 2</b>": It's the variable name in which the Parameter 1 value is saved.</li> </ul>
<b>Example(s)</b>	<p><b>Then</b> Append "<b>First Name</b>" to "<b>fName</b>" variable  <b>Then</b> Append "," text to "<b>fName</b>" variable</p> <p><b>Then</b> Concat "<b>fName</b>" and "<b>Last Name</b>" values into "<b>Staff Name</b>" variable</p> <ul style="list-style-type: none"> <li>• This value will be added to "<b>Staff Name</b>" the value will be concatenate with the "<b>Last Name</b>"</li> <li>• The result is: Staff Name: "<b>VRXGXYZBFN, SVDTZKKN</b>"</li> </ul>
<b>Notes</b>	<p><b>IMPORTANT:</b> You need to initialize the parameter using</p> <p><b>Then</b> I Set "" data to "<b>Parameter 2</b>" variable</p>

[More Topics](#)

How to trim down the text from a variable	
<b>Description</b>	Add more characters to variable
<b>Command</b>	<b>Then</b> take the text from variable " <b>Parameter 1</b> " starting from character " <b>BeginIndex</b> " ending at character " <b>EndIndex</b> " and put it into variable " <b>Parameter 2</b> "
<b>Parameters description</b>	It will take the characters using the parameters as a <b>begin</b> and end <b>Index</b> (starting from <b>0</b> , just like substring works in java). The first parameter (UserNameLabel) can be a newly created variable, an existing element in the model page, or data from the datasource (just like any other variable we use).
<b>Example(s)</b>	<p><b>Then</b> take the text from variable "<b>UserNameLabel</b>" starting from character "<b>2</b>" ending at character "<b>5</b>" and put it into variable "<b>TrimmedUserName</b>"</p> <p>UserNameLabel = ABCDEFGHI  TrimmedUserName = CDE</p>
<b>Notes</b>	

[More Topics](#)

How to toggle a string and save it in variable	
<b>Description</b>	This is used to toggle the case of the string. If the string is in UPPERCASE, then the toggled value will be in lowercase. If the string is in lowercase, then toggled value will be in UPPERCASE.
<b>Command</b>	<b>Then</b> Toggle the case for " <b>Parameter 1</b> " variable data and store it to " <b>Parameter 2</b> " variable
<b>Parameters description</b>	<ul style="list-style-type: none"> <li>• Parameter 1: name of the variable.</li> <li>• Parameter 2: name of the variable</li> </ul>

<b>Example(s)</b>	<p><b>1) Then</b> Toggle the case for "UserNameLabel" variable data and store it to "UserName" variable</p> <p>UserNameLabel = ABCDEFGHI</p> <p>UserName= abcdefghi</p> <p><b>2) Then</b> Toggle the case for "UserNameLabel" variable data and store it to "UserName" variable</p> <p>UserNameLabel = abcdefghi</p> <p>UserName= ABCDEFGHI</p>
<b>Notes</b>	

[More Topics](#)

How to copy a variable data	
<b>Description</b>	This functionality copies the data from a variable and paste it to other variable
<b>Command</b>	<b>Then</b> Copy "Parameter 1" variable data to "Parameter 2" variable
<b>Parameters description</b>	<ul style="list-style-type: none"> <li>"Parameter 1": It's the name of a source variable.</li> <li>"Parameter 2": It's the name of target variable.</li> </ul>
<b>Example(s)</b>	<b>Then</b> Copy "First Name" variable data to "First Name 1" variable
<b>Notes</b>	

[More Topics](#)

How to get a specific value from lookup data																																																																	
<b>Description</b>	This function gets a specific value from a lookup table																																																																
<b>Command</b>	<b>Then</b> get "Parameter 1" from "Parameter 2" using "Parameter 3" into "Parameter 4" variable																																																																
<b>Parameters description</b>	<ul style="list-style-type: none"> <li>Parameter 1: Is the value that we want to get from table.</li> <li>Parameter 2: Is the name of the dataset in which is defined the lookup table.</li> <li>Parameter 3: Is the criteria filter to retrieve the value of the lookup table. To add more criteria to reduce the search, we need to separate using ";" character.</li> <li>Parameter 3: Is the name of the variable in which the value is stored.</li> </ul>																																																																
<b>Example(s)</b>	<p>Consider the following lookup table</p> <p>if you want to get the value highlighted (FN) in yellow, you should do the following:</p> <p><b>Then</b> get "FN" from "TestTable" using "Scenario=Scenario01;Person=Person3" into "First Name" variable</p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr style="background-color: #e0ffe0;"> <th></th> <th>A</th> <th>B</th> <th>C</th> <th>D</th> <th>E</th> <th>F</th> <th>G</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Scenario</td> <td>Person</td> <td>Income</td> <td>FN</td> <td>LN</td> <td>DesiredValueC</td> <td>DesiredValueD</td> </tr> <tr> <td>2</td> <td>Scenario01</td> <td>Person1</td> <td>Work</td> <td>DVA1</td> <td>DVB1</td> <td>1</td> <td>11</td> </tr> <tr> <td>3</td> <td>Scenario01</td> <td>Person1</td> <td>Gift</td> <td>DVA1</td> <td>DVB1</td> <td>1</td> <td>11</td> </tr> <tr> <td>4</td> <td>Scenario01</td> <td>Person2</td> <td>Work</td> <td>DVA2</td> <td>DVB2</td> <td>2</td> <td>22</td> </tr> <tr style="background-color: #ffffcc;"> <td>5</td> <td>Scenario01</td> <td>Person3</td> <td>Work</td> <td>DVA3</td> <td>DVB3</td> <td>3</td> <td>33</td> </tr> <tr> <td>6</td> <td>Scenario02</td> <td>Person1</td> <td>Work</td> <td>DVA4</td> <td>DVB4</td> <td>4.9999</td> <td>44</td> </tr> <tr> <td>7</td> <td>Scenario02</td> <td>Person2</td> <td>Work</td> <td>DVA5</td> <td>DVB5</td> <td>5</td> <td>55</td> </tr> </tbody> </table> <p>In this case, First Name variable will have DVA3 value.</p>		A	B	C	D	E	F	G	1	Scenario	Person	Income	FN	LN	DesiredValueC	DesiredValueD	2	Scenario01	Person1	Work	DVA1	DVB1	1	11	3	Scenario01	Person1	Gift	DVA1	DVB1	1	11	4	Scenario01	Person2	Work	DVA2	DVB2	2	22	5	Scenario01	Person3	Work	DVA3	DVB3	3	33	6	Scenario02	Person1	Work	DVA4	DVB4	4.9999	44	7	Scenario02	Person2	Work	DVA5	DVB5	5	55
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3	Scenario01	Person1	Gift	DVA1	DVB1	1	11																																																										
4	Scenario01	Person2	Work	DVA2	DVB2	2	22																																																										
5	Scenario01	Person3	Work	DVA3	DVB3	3	33																																																										
6	Scenario02	Person1	Work	DVA4	DVB4	4.9999	44																																																										
7	Scenario02	Person2	Work	DVA5	DVB5	5	55																																																										
<b>Notes</b>																																																																	

[More Topics](#)

## How to evaluate a formula using variables

<b>Description</b>	This function evaluates an operation and save it in a variable
<b>Command</b>	<b>Then</b> evaluate " <b>Parameter 1</b> " and store it to variable " <b>Parameter 2</b> "
<b>Parameters description</b>	<ul style="list-style-type: none"> <li>• <b>Parameter 1:</b> Is the formula to evaluate using variables. Example: "\$[OperatorA]+\$[OperatorB]"</li> <li>• <b>Parameter 2:</b> Is the name of the variable where the result is stored.</li> </ul>
<b>Example(s)</b>	<p><b>OperatorA</b> and <b>OperatorB</b> are variables and they have value.</p> <p>OperatorA= 2</p> <p>OperatorB= 9</p> <p><b>Then</b> evaluate "<b>[\$[OperatorA]+\$[OperatorB]</b>" and store it to variable "<b>ResultVar</b>"</p> <p>In this case, The result should be 11 and is stored in ResultVar variable.</p>
<b>Notes</b>	Note: We can use different operation as sum, subtraction, multiplication and division.

### More Topics

## How to round down-up values

<b>Description</b>	This function round, round down or round up values.
<b>Command</b>	<b>Then</b> perform round-off on " <b>Parameter 1</b> " as per " <b>Parameter 2</b> "
<b>Parameters description</b>	<ul style="list-style-type: none"> <li>• <b>Parameter 1:</b> It is the value that we want to round, round down or round up, it can be represented as variable.</li> <li>• <b>Parameter 2:</b> It action to do: round, round-down or round-up</li> </ul>
<b>Example(s)</b>	<p><b>ResultVal1</b>= 7.50</p> <p><b>ResultVal2</b>= 7.49</p> <p><b>Then</b> perform round-off on "<b>ResultVal1</b>" as per "<b>round</b>"</p> <p>The result should be 8.</p> <p><b>Then</b> perform round-off on "<b>ResultVal2</b>" as per "<b>round</b>"</p> <p>The result should be 7.</p> <p>-----</p> <p><b>ResultVal</b>= 7.88</p> <p><b>Then</b> perform round-off on "<b>ResultVal</b>" as per "<b>down</b>"</p> <p>The result should be 7.</p> <p>-----</p> <p><b>ResultVal</b>= 7.38</p> <p><b>Then</b> perform round-off on "<b>ResultVal</b>" as per "<b>up</b>"</p> <p>The result should be 8.</p>
<b>Notes</b>	

### More Topics

## How to give a format to numbers

<b>Description</b>	This function gives a format to a number considering the following formatting types: decimal/number/currencynumber /currencydecimal
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<b>Command</b>	<b>Then</b> format number " <b>Parameter 1</b> " as per " <b>Parameter 2</b> "
<b>Parameters description</b>	<ul style="list-style-type: none"> <li>• <b>Parameter 1:</b> Is the value that we want to format, it can be represented as variable.</li> <li>• <b>Parameter 2:</b> Is the formatting type available: decimal/number/currencynumber/currencydecimal</li> </ul>
<b>Example(s)</b>	<p><b>ResultVal= 3</b></p> <p><b>Then</b> format number "<b>ResultVal</b>" as per "<b>decimal</b>"</p> <p>The result should be 3.00.</p> <p>-----</p> <p><b>ResultVal= 7.88</b></p> <p><b>Then</b> format number "<b>ResultVal</b>" as per "<b>number</b>"</p> <p>The result should be 7.</p> <p>-----</p> <p><b>ResultVal= 3.88</b></p> <p><b>Then</b> format number "<b>ResultVal</b>" as per "<b>currencynumber</b>"</p> <p>The result should be \$3.88</p> <p>-----</p> <p><b>ResultVal= 6</b></p> <p><b>Then</b> format number "<b>ResultVal</b>" as per "<b>currencynumber</b>"</p> <p>The result should be \$6</p>
<b>Notes</b>	

[More Topics](#)

<b>How to set a lookup filter criteria</b>	
<b>Description</b>	This function set a lookup filter criteria that can be used to get a specific value in lookup table
<b>Command</b>	<b>Then</b> format number " <b>Parameter 1</b> " as per " <b>Parameter 2</b> "
<b>Parameters description</b>	<ul style="list-style-type: none"> <li>• <b>Parameter 1:</b> Is the value that we want to format, it can be represented as variable.</li> <li>• <b>Parameter 2:</b> Is the formatting type available: decimal/number/currencynumber/currencydecimal</li> </ul>
<b>Example(s)</b>	<p><b>Then</b> I set "<b>Scenario=\${Scenario}</b>" to "<b>Criteria</b>" variable</p> <p><b>Then</b> get "<b>Amount</b>" from "<b>Config</b>" using "<b>\${Criteria}</b>" into "<b>ConfigAmount</b>" variable</p>
<b>Notes</b>	

[More Topics](#)

<b>How to use Random index for dataset</b>	
<b>Description</b>	To use a random value within the given range for setting the dataset .

<b>Command</b>	<ol style="list-style-type: none"> <li>1. Then define the data source for "<b>DataKey</b>" as file "<b>Path of xlsx file</b>" with spreadsheet "spreadsheet name" and dataset index between <b>startIndex</b> and <b>endIndex</b></li> <li>2. Then define the data source for "<b>DataKey</b>" as file "<b>Path of csv file</b>" and dataset index between <b>startIndex</b> and <b>endIndex</b></li> </ol> <p>Please note that the startindex and endindex are inclusive in the random value . So a random value within range 3 and 5 can return 3 or 5 as well.</p>
<b>Parameters description</b>	<p><b>DataKey</b> - Name used for the dataset</p> <p><b>Path</b> : Path of the xlsx or csv files</p> <p><b>StartIndex</b>: Begin value range</p> <p><b>Endindex</b> : Endvalue of range</p>
<b>Example(s)</b>	<p>Eg : Excel</p> <p>Then define the data source for "<b>ABMS Case Data</b>" as file "<b>ARCHIVED/VLP_Data/VLP_CMSAttestation.xlsx</b>" with spreadsheet "<b>Person1</b>" and dataset index between <b>2</b> and <b>9</b></p> <p>Eg :CSV</p> <p>Then define the data source for "<b>ABMS Case Data</b>" as file "<b>ARCHIVED/VLP_Data/VLP_CMSAttestation.csv</b>" and dataset index between <b>2</b> and <b>9</b></p>
<b>Notes</b>	

## How to copy a variable and set it as Global Variable

<b>Description</b>	Copy value from a dataset-tied variable to global variable.
<b>Command</b>	<b>Then</b> Copy " <b>Parameter 1</b> " variable data to " <b>Parameter 2</b> " global variable
<b>Parameters description</b>	<ul style="list-style-type: none"> <li>• "<b>Parameter 1</b>": Variable that belongs to specific data set</li> <li>• "<b>Parameter 2</b>": Identifier of the new Global Variable</li> </ul>
<b>Example (s)</b>	<p><b>Then</b> Copy "<b>Full Name Person 1</b>" variable data to "<b>FN Person 1</b>" global variable</p> <p>For this case, the engine will copy the variable, and it will be assigned to the Global Variable</p>
<b>Notes</b>	<ul style="list-style-type: none"> <li>• When setting the Global Variable Identifier make sure that this is unique and It does not exist in the data set where the global variable is used, due to if engine detects the Identifier exist in the dataset, the value of the dataset will be considered first than the Global Variable value.</li> </ul>

## How to capture data from UI to Global Variable

<b>Description</b>	Capturing data from UI to a global variable.
<b>Command</b>	<b>Then</b> Capture " <b>Parameter 1</b> " data into " <b>Parameter 2</b> " global variable
<b>Parameter S description</b>	<ul style="list-style-type: none"><li>• "<b>Parameter 1</b>": Data name which is specified in the Model file</li><li>• "<b>Parameter 2</b>": Identifier of the new Global Variable</li></ul>
<b>Example (s)</b>	<b>Then</b> Capture " <b>Case Name</b> " data into " <b>Global Case Name</b> " global variable For this case, the engine will capture the data from UI, and it will be assigned to the Global Variable
<b>Notes</b>	<ul style="list-style-type: none"><li>• When setting the Global Variable Identifier make sure that this is unique and It does not exist in the data set where the global variable is used, due to if engine detects the Identifier exist in the dataset, the value of the dataset will be considered first than the Global Variable value.</li></ul>

## How to manipulate data from a table

### Manipulate data from a table with headers

<b>Description</b>	To manipulate/get elements inside a table with headers, we need to use some functions. The table xpath needs to be defined in data model as Table type first, then with another function, we validate that table exists on page, after this, we set/select a specific row, and finally we get the element desired to manipulate it.
<b>Command</b>	<b>Identify link into the table and click on it.</b> <ol style="list-style-type: none"><li>1) <b>Given</b> the "<b>Parameter 1</b>" table exists</li><li>2) <b>When</b> I fetch table row using "<b>Parameter 2</b>" into "<b>Parameter 3</b>"</li><li>3) <b>Then</b> I get "<b>Parameter 4</b>" of "<b>Parameter 3</b>" into "<b>Parameter 5</b>" variable</li><li>4) <b>Then</b> I click on "<b>Parameter 4</b>" of "<b>Parameter 3</b>"</li></ol>
<b>Parameter S description</b>	<ul style="list-style-type: none"><li>• "<b>Parameter 1</b>": Data name which is specified in the Model file, in this case is the Table name.</li><li>• "<b>Parameter 2</b>": The criteria used to fetch the row.</li><li>• "<b>Parameter 3</b>": The variable name in which the row is saved.</li><li>• "<b>Parameter 4</b>": The element to get from the row.</li><li>• "<b>Parameter 5</b>": The variable name in which the element is saved.</li><li>• "<b>Parameter 6</b>": The string value to set.</li><li>• "<b>Parameter 7</b>": The variable name where value to set is saved.</li><li>• "<b>Parameter 8</b>": The string value to set.</li></ul>

## Example(s)

Identify link into the table and click on it.

1) Put the Page name in context.

**Given** I am on the "EDBC List" page

2) Define the table xpath in model. Type should be as Table.

3) Validate table exists on page using:

**Given** the "EDBC Table" table exists

Begin Month*	End Month*	Program*	Type*	Run Status*	Auth Amount	Date Run*	EDBC Source**
03/2020		JANE	Regular	Accepted - Saved	30.81	03/26/2020	Online EDBC Rules
03/2020		SNAP	Regular	Accepted - Saved	42.26	03/26/2020	Online EDBC Rules
03/2020		Medicaid	Regular	Accepted - Saved	Details	03/26/2020	Online EDBC Rules

4) Fetch the row using:

**When** I fetch table row using "AuthAmount=Details" into "Selected Row"

5) Get the element

**Then** I get "Program" of "Selected Row" into "AnyName" variable

6) Click on the element (Link).

**Then** I click on "Program" of "Selected Row"

The result of this is: Medicaid link is clicked and new page is displayed.

## Notes

- To fetch the rows, the headers should not have spaces. For example Auth Amount or Date Run, they have a space between them, so the space needs to be removed, like the above example.
- When the table has headers we can also use the comand "Given the "TABLE" table with no header exists" (To search the table), and use the COL to fetch the row.
- When the table has headers and we use the comand "Given the "TABLE" table with no header exists" (To search the table), only COL will work, Names of column wont work, since command used is "Table with no headers".
- When the table has headers and we use the comand "Given the "TABLE" table exists" (To search the table), only Names of column will work, COL column wont work, since command used is "Table exists".

## Manipulate data from a table without headers

### Description

To manipulate/get elements inside a table without headers, we need to use some functions. The table xpath needs to be defined in data model as Table type first, then with another function, we validate that table exists on page, after this, we set/select a specific row, and finally we get the element desired to manipulate it.



## Command

Identify link into the table and click on it.

- 1) **Given** the "**Parameter 1**" table with no header exists
- 2) **When** I fetch table row using "**Parameter 2**" into "**Parameter 3**"
- 3) **Then** I get "**Parameter 4**" of "**Parameter 3**" into "**Parameter 5**" variable
- 4) **Then** I click on "**Parameter 4**" of "**Parameter 3**"

Identify text box or drop down into the table and set value.

- 1) **Given** the "**Parameter 1**" table with no header exists
- 2) **When** I fetch table row using "**Parameter 2**" into "**Parameter 3**"
- 3) **Then** I get "**Parameter 4**" of "**Parameter 3**" into "**Parameter 5**" variable
- 4) Then I set "**Parameter 6**" to "**Parameter 7**" variable
- 5) Then I set field data to "**Parameter 4**" of "**Parameter 3**" using value "\$[**Parameter 7**]" or Then I set field data to "**Parameter 4**" of "**Parameter 3**" using value "**Parameter 8**"

**Note:** skip step on number 4 when string value is set directly as Parameter 8 and variable is not required in the second step option on number 5.

## Parameter S Description

- "**Parameter 1**": Data name which is specified in the Model file, in this case is the Table name.
- "**Parameter 2**": The criteria used to fetch the row.
- "**Parameter 3**": The variable name in which the row is saved.
- "**Parameter 4**": The element to get from the row.
- "**Parameter 5**": The variable name in which the element is saved.
- "**Parameter 6**": The string value to set.
- "**Parameter 7**": The variable name where value to set is saved.
- "**Parameter 8**": The string value to set.

## Example (s)

Identify link into the table and click on it.

- 1) Put the Page name in context.  
**Given** I am on the "**Case Summary**" page
- 2) Define the table xpath in model. Type should be as Table.
- 3) Validate table with no header exists on page using:

**Given** the "**EDBC Table**" table with no header exists

TAMF					
Worker:	Eligibility Admin				
Worker ID:	50LSEA308				
Program Status:	Active				
RE Due Month:	02/2021 <a href="#">Re-Evaluate</a>				
Aid Code:	30 - TF-All Other Families (Fed)				
Primary Applicant/Recipient:					
Language:	JRWELHAHFN ZSFIDJQLN				
Phone Number:	English				
Payee:	(844)439-0844				
Application Date:	JRWELHAHFN ZSFIDJQLN				
	03/27/2020				
Name	Deprivation	Role	Role Reason	Status	Status Reason
<a href="#">KHGPRASEFN RIURROOKLN</a>		MEM		Active	
<a href="#">JRWELHAHFN ZSFIDJQLN</a>		MEM		Active	

- 4) Fetch the row using:  
**When** I fetch table row using "**COL0=Worker ID:**" into "**Selected Row**"
- 5) Get the element  
**Then** I get "**COL1**" of "**Selected Row**" into "**AnyName**" variable

6) Click on the element (Link).

**Then** I click on "COL1" of "Selected Row"

The result of this is: Worker id link is clicked and page is displayed.

**Identify text box or drop down into the table and set value.**

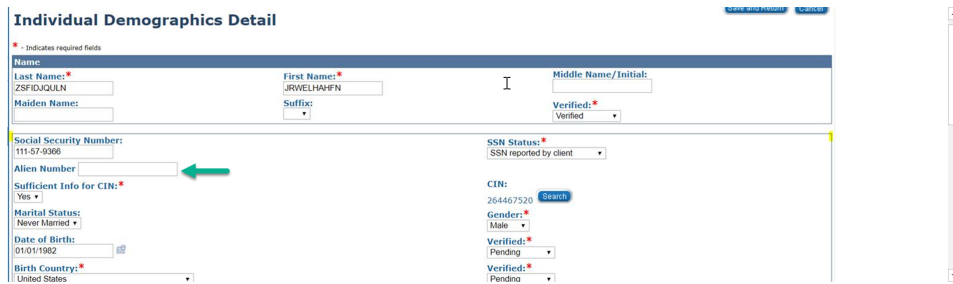
1) Put the Page name in context.

**Given** I am on the "Individual Demographics Detail" page

2) Define the table xpath in model. Type should be as Table.

3) Validate table with no header exists on page using:

**Given** the "Individual Demographics Detail Table" table with no header exists



4) Fetch the row using:

**When** I fetch table row using "COL0=Alien Number" into "Selected Row"

5) Get the element

**Then** I get "COL0" of "Selected Row" into "NameFromRow" variable

6) Set value in the element (Text Field)

**Then** I set field data to "COL0" of "Selected Row" using value "123-1231212"

7) When value to set is saved in a variable skip step on number 6 and follow the next steps below

**Then** I set "123-1231212" to "var" variable

**Then** I set field data to "COL0" of "Selected Row" using value "&[var]"

The result of this is: Alien Number = 123-1231212 in UI Text Field

Note: these same steps apply when it is required to set or select a value in a dropdown

## Notes

- To use the command with no headers, to fetch the row we need to use the COL, for column names wont work.

## How to group data from a table to manipulate it

### Description

This function is used to group data displayed in a table.

### Command

With headers:

**Given** the "Parameter 1" table with group by "Parameter 2" exists

Without headers:

**Given** the "Medicaid Table" no header table with group by "COL0" exists

<b>Parameter s Description</b>	<ul style="list-style-type: none"> <li>• <b>"Parameter 1"</b>: Data name which is specified in the Model file, in this case is the Table name.</li> <li>• <b>"Parameter 2"</b>: It's the column table to group.</li> </ul>
--	--

<b>Example (s)</b>	<p>1) Put the Page name in context.  <b>Given</b> I am on the <b>"Medicaid EDBC Summary"</b> page</p> <p>2) Define the table xpath in model. Type should be as Table.</p> <p>3) Validate table with group by exists on page using:  <b>Given</b> the <b>"Medicaid Table"</b> table with group by <b>"Test"</b> exists</p> <table border="1" data-bbox="310 489 1260 627"> <thead> <tr> <th colspan="8">Eligible Budgets for MEDS</th> </tr> <tr> <th>Test</th> <th>Result</th> <th>SOC</th> <th>% Oblig</th> <th>Aid Code</th> <th>Members Tested</th> <th>Role</th> <th>Role Reason</th> </tr> </thead> <tbody> <tr> <td>Maqi Parent/Care Taker</td> <td>Pass</td> <td>\$0</td> <td>0.00</td> <td></td> <td>Huerta, Clara</td> <td>FRI</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>MC</td> <td>Huerta, Fernando</td> <td>FRI</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>MZ</td> <td>Huerta, Miguel</td> <td>MEM</td> <td></td> </tr> <tr> <td>Maqi Child Under 19</td> <td>Pass</td> <td>\$0</td> <td>0.00</td> <td></td> <td>Huerta, Fernando</td> <td>MEM</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Huerta, Miguel</td> <td>FRI</td> <td></td> </tr> <tr> <td>Maqi Child Under 19</td> <td>Pass</td> <td>\$0</td> <td>0.00</td> <td>MZ</td> <td>Huerta, Clara</td> <td>MEM</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Huerta, Miguel</td> <td>FRI</td> <td></td> </tr> </tbody> </table> <p>the result will be:</p> <pre>{ROLE=FRI,FRI,MEM, TEST=Magi Parent/Care Taker, SOC=\$0, , RESULT=Pass, , , AIDCODE=,,MC, ROLEREASON=,, OBLIG=0.00, , , MEMBERSTESTED=Huerta, Clara,Huerta, Fernando,Huerta, Miguel}</pre> <pre>{ROLE=MEM,FRI, TEST=Magi Child Under 19, SOC=\$0, , RESULT=Pass, , AIDCODE=MZ,, ROLEREASON=,, OBLIG=0.00, , MEMBERSTESTED=Huerta, Fernando,Huerta, Miguel}</pre> <pre>{ROLE=MEM,FRI, TEST=Magi Child Under 19, SOC=\$0, , RESULT=Pass, , AIDCODE=MZ,, ROLEREASON=,, OBLIG=0.00, , MEMBERSTESTED=Huerta, Clara,Huerta, Miguel}</pre> <p>To manipulate the data of this group, we can use the following commands:</p> <p>First, we need to fetch the row:</p> <p><b>Then</b> I set <b>"MZ"</b> to <b>"textSearch"</b> variable</p> <p><b>When</b> I fetch table row using <b>"#contains(AidCode,\$[textSearch])"</b> into <b>"Selected Row"</b></p> <p>Note: The contains function will search the textSearch variable value in all rows, in this case will search "MZ", the first occurrence will be taken and stored in Selected Row variable.</p> <pre>{ROLE=MEM,FRI, TEST=Magi Child Under 19, SOC=\$0, , RESULT=Pass, , AIDCODE=MZ,, ROLEREASON=,, OBLIG=0.00, , MEMBERSTESTED=Huerta, Fernando,Huerta, Miguel}</pre> <p>After this, we can get or click the element</p> <p><b>Then</b> I get <b>"AidCode"</b> of <b>"Selected Row"</b> into <b>"NameFromRow"</b> variable</p> <p><b>Then</b> I click on <b>"Test"</b> of <b>"Selected Row"</b></p>	Eligible Budgets for MEDS								Test	Result	SOC	% Oblig	Aid Code	Members Tested	Role	Role Reason	Maqi Parent/Care Taker	Pass	\$0	0.00		Huerta, Clara	FRI						MC	Huerta, Fernando	FRI						MZ	Huerta, Miguel	MEM		Maqi Child Under 19	Pass	\$0	0.00		Huerta, Fernando	MEM							Huerta, Miguel	FRI		Maqi Child Under 19	Pass	\$0	0.00	MZ	Huerta, Clara	MEM							Huerta, Miguel	FRI	
Eligible Budgets for MEDS																																																																									
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Maqi Parent/Care Taker	Pass	\$0	0.00		Huerta, Clara	FRI																																																																			
				MC	Huerta, Fernando	FRI																																																																			
				MZ	Huerta, Miguel	MEM																																																																			
Maqi Child Under 19	Pass	\$0	0.00		Huerta, Fernando	MEM																																																																			
					Huerta, Miguel	FRI																																																																			
Maqi Child Under 19	Pass	\$0	0.00	MZ	Huerta, Clara	MEM																																																																			
					Huerta, Miguel	FRI																																																																			

<b>Notes</b>	<ul style="list-style-type: none"> <li>• We can also use the following comand for tables with no headers: <b>Given</b> the <b>"Medicaid Table"</b> no header table with group by <b>"COL0"</b> exists The difference is we need to use COL instead of Header names.</li> <li>• This function will group by in a correct manner when the first value of the column is not blank. For example, if we want to group by Aid code, in some cases the first value is blank, so it will start grouping when a value is found. So the result wont be the expected.</li> </ul>
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## How to ungroup data from a table to manipulate it

<b>Description</b>	This function is used to ungroup data displayed in a table.
<b>Command</b>	<p>With headers:</p> <p><b>Given</b> the <b>"Parameter 1"</b> table with ungroup by <b>"Parameter 2"</b> exists</p> <p>Without headers:</p> <p><b>Given</b> the <b>"Medicaid Table"</b> no header table with ungroup by <b>"COL0"</b> exists</p>

**Parameter  
s  
Description**

- **"Parameter 1"**: Data name which is specified in the Model file, in this case is the Table name.
- **"Parameter 2"**: It's the column table to ungroup.

**Example  
(s)**

1) Put the Page name in context.

**Given** I am on the **"Medicaid EDBC Summary"** page

2) Define the table xpath in model. Type should be as Table.

3) Validate table with group by exists on page using:

**Given** the **"Medicaid Table"** table with group by **"Test"** exists

Eligible Budgets for MEDS							
Test	Result	SOC	% Oblig	Aid Code	Members Tested	Role	Role Reason
Magi Parent/Care Taker	Pass	\$0	0.00	MC	Huerta, Clara	FRI	
					Huerta, Fernando	FRI	
					Huerta, Miguel	MEM	
Magi Child Under 19	Pass	\$0	0.00	MZ	Huerta, Fernando	MEM	
					Huerta, Miguel	FRI	
					Huerta, Clara	MEM	
Magi Child Under 19	Pass	\$0	0.00	MZ	Huerta, Miguel	FRI	

the result will be:

**{ROLE=FRI, TEST=Magi Parent/Care Taker, SOC=\$0, RESULT=Pass, AIDCODE=, ROLEREASON=, OBLIG=0.00, MEMBERSTESTED=Huerta, Clara}**

**{ROLE=FRI, TEST=Magi Parent/Care Taker, SOC=, RESULT=, AIDCODE=, ROLEREASON=, OBLIG=, MEMBERSTESTED=Huerta, Fernando}**

**{ROLE=MEM, TEST=Magi Parent/Care Taker, SOC=, RESULT=, AIDCODE=MC, ROLEREASON=, OBLIG=, MEMBERSTESTED=Huerta, Miguel}**

**{ROLE=MEM, TEST=Magi Child Under 19, SOC=\$0, RESULT=Pass, AIDCODE=MZ, ROLEREASON=, OBLIG=0.00, MEMBERSTESTED=Huerta, Fernando}**

**{ROLE=FRI, TEST=Magi Child Under 19, SOC=, RESULT=, AIDCODE=, ROLEREASON=, OBLIG=, MEMBERSTESTED=Huerta, Miguel}**

**{ROLE=MEM, TEST=Magi Child Under 19, SOC=\$0, RESULT=Pass, AIDCODE=MZ, ROLEREASON=, OBLIG=0.00, MEMBERSTESTED=Huerta, Clara}**

**{ROLE=FRI, TEST=Magi Child Under 19, SOC=, RESULT=, AIDCODE=, ROLEREASON=, OBLIG=, MEMBERSTESTED=Huerta, Miguel}**

To manipulate the data of this ungroup, we can use the following commands:

First, we need to fetch the row:

**Then** I set **"MZ"** to **"textSearch"** variable

**When** I fetch table row using **"#contains(AidCode,\$[textSearch])"** into **"Selected Row"**

Note: The contains function will search the textSearch variable value in all rows, in this case will search "MZ", the first occurrence will be taken and stored in Selected Row variable.

**{ROLE=MEM, TEST=Magi Child Under 19, SOC=\$0, RESULT=Pass, AIDCODE=MZ, ROLEREASON=, OBLIG=0.00, MEMBERSTESTED=Huerta, Fernando}**

After this, we can get or click the element

**Then** I get **"AidCode"** of **"Selected Row"** into **"NameFromRow"** variable


**Then** I click on **"Test"** of **"Selected Row"**

**Notes**

- We can also use the following comand for tables with no headers: **Given** the **"Medicaid Table"** no header table with ungroup by **"COL0"** existsThe difference is we need to use COL instead of Header names.
- This function will ungroup by in a correct manner when the first value of the column is not blank. For example, if we want to group by Aid code, in some cases the first value is blank, so it will start grouping when a value is found. So the result wont be the expected.

## How to convert date format

<b>Description</b>	Converting initial date to expected date using specific format criteria
<b>Command</b>	<p>1) Setting values directly in command</p> <p><b>Then</b> Convert date format of "\$[Parameter 1]" from "\$[Parameter 2]" to "\$[Parameter 3]" and store it to variable "Parameter 4"</p> <p>2) Setting values using variables</p> <p><b>Then</b> I set "Parameter 1" to "Parameter 2" variable</p> <p><b>Then</b> I set "Parameter 3" to "Parameter 4" variable</p> <p><b>Then</b> I set "Parameter 5" to "Parameter 6" variable</p> <p><b>Then</b> Convert date format of "\$[Parameter 2]" from "\$[Parameter 4]" to "\$[Parameter 6]" and store it to variable "Parameter 7"</p>
<b>Parameters description</b>	<p>1) Setting values directly in command</p> <ul style="list-style-type: none"> <li>• "Parameter 1": Initial date</li> <li>• "Parameter 2": Initial format criteria (Old format)</li> <li>• "Parameter 3": Specific format criteria (New Format)</li> <li>• "Parameter 4": Variable name with converted date format</li> </ul> <p>2) Setting values using variables</p> <ul style="list-style-type: none"> <li>• "Parameter 1": Initial date</li> <li>• "Parameter 2": Variable name with initial date</li> <li>• "Parameter 3": Initial format criteria</li> <li>• "Parameter 4": Variable name with initial format</li> <li>• "Parameter 5": Specific format criteria</li> <li>• "Parameter 6": Variable name with specific format</li> <li>• "Parameter 7": Variable name with the converted date format</li> </ul>
<b>Example(s)</b>	<p>Setting directly in command</p> <p><b>Then</b> Convert date format of "\$[Jan-2020]" from "\$[MMM-yyyy]" to "\$[#d(+  1 1 1  MMM-dd-yyyy)]" and store it to variable "var"</p> <p><b>Var</b> should have the value: <b>Feb-02-2021</b></p> <p>-----</p> <p>Using Variables</p> <p>1) Set initial date and store it in a variable.</p> <p><b>Then</b> I set "Jan-2020" to "Date" variable</p> <p>2) Set initial date format and store it in a variable .</p> <p><b>Then</b> I set "MMM-yyyy" to "OldFormat" variable</p> <p>3) Set expected format criteria and store it in a variable.</p> <p><b>Then</b> I set "#d(+  1 1 1  MMM-dd-yyyy)" to "NewFormat" variable</p> <p>4) store initial date in a variable.</p> <p><b>Then</b> Convert date format of "\$[Date]" from "\$[OldFormat]" to "\$[NewFormat]" and store it to variable "var"</p> <p><b>Var</b> should have the value: <b>Feb-02-2021</b></p>

<b>Notes</b>	<ul style="list-style-type: none"> <li>• Date conversion using "S"  <b>Then</b> Convert date format of "05/2020" from "MM/yyyy" to "#d(+  0 0 S  MM/dd/yyyy)" and store it to variable "NewDateVariableA"  The actual value should be: 05/01/2020, in this case it will display the first day of the month.</li> <li>• Date conversion using "E"  <b>Then</b> Convert date format of "05/2020" from "MM/yyyy" to "#d(+  0 1 E  MM/dd/yyyy)" and store it to variable "NewDateVariableC"  The actual value should be: 06/30/2020</li> <li>• Date conversion with missing values  <b>Then</b> Convert date format of "2020" from "yyyy" to "#d(+  0 0 0  MM/dd/yyyy)" and store it to variable "NewDateVariableC"  The actual value should be: 04/21/2020 (Current day)</li> <li>• Date conversion with Timestamp values  <b>Then</b> Convert date format of "04/2020" from "MM/yyyy" to "#d(+  0 0 0  MM/dd/yyyy HH:mm:ss:SSS)" and store it to variable "NewDateVariableE"  The actual value should be: 04/21/2020 11:34:15:123</li> <li>• The TimeStamp format can be applied in datasource, so the result should be the same.</li> </ul> 
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**How to set field data(Checkbox, DropDown or Radio) from a table**

<b>Description</b>	<p>To set field elements inside a table with headers, some functions should be used.</p> <p>The table xpath needs to be defined in data model as Table type first, then with another function, validate that table exists on page, after that, fetch the table row into a variable, and finally set the field located in the row fetched, referencing to column header with the value from datasource.</p>
<b>Command</b>	<p><b>Identify link into the table and click on it.</b></p> <ol style="list-style-type: none"> <li>1) <b>Given</b> the "Parameter 1" table exists</li> <li>2) <b>When</b> I fetch table row using "Parameter 2" into "Parameter 3"</li> <li>3) <b>Then</b> I set field data to "Parameter 4" of "Parameter 3" using value "Parameter 5"</li> </ol>
<b>Parameters description</b>	<ul style="list-style-type: none"> <li>• <b>"Parameter 1"</b>: Data name which is specified in the Model file, in this case is the Table name.</li> <li>• <b>"Parameter 2"</b>: The criteria used to fetch the row.</li> <li>• <b>"Parameter 3"</b>: The variable name in which the row is saved.</li> <li>• <b>"Parameter 4"</b>: The column header name without spaces.</li> <li>• <b>"Parameter 5"</b>: The variable name in which the element is saved, the element should be added in the model and the value which will be used to set should be added to dataset.</li> </ul>
<b>Example(s)</b>	

Identify column name of the table and set field data with variables from dataset.

1) Put the Page name in context.

**Given** I am on the "Household Relationships" page

2) Define the table xpath in model. Type should be as Table.

3) Validate table exists on page using:

**Given** the "Relationship Table" table exists

**Household Relationships**

Welcome Start Application People Job and School Other Income Expenses Property Other Submit Application

Percent Complete: 80.0%

Listed below are all members of your household entered on the application. If any household member is missing, please return to the People Tab and add them. When all household members have been listed, please tell us each person's relationship to one another. This information is required to process your application.

\* Red asterisk indicates required

Household Member	Relationship*	Related Household Member	Start Date	Parental Control
CDKMJTEIFN HRMYWLODLN	is the <input type="text" value="Select One"/>	of ZKOQPBSDFN BZSCZPYBLN	as of <input type="text"/>	<input type="checkbox"/>

There is no other household member identified to have a relationship with. Please go to People category to add if you have missed anyone.

Back Save and Continue

4) Fetch the row using:

For a table with headers:

**When** I fetch table row using "RelatedHouseholdMember=\${Full Name Person 1}" into "Selected Row"

For a table without headers:

**When** I fetch table row using "COL0=\${Full Name Person 1}" into "Selected Row"

5) Set fields data:

**Then** I set field data to "ParentalControl" of "Selected Row" using value "\${Parental Control}"

**Then** I set field data to "Relationship" of "Selected Row" using value "\${Relationship Dropdown}"

The result of this is: Parental Control checkbox is checked and Relationship dropdown is set with value of a variable.

**Household Relationships**

Welcome Start Application People Job and School Other Income Expenses Property Other Submit Application

Percent Complete: 80.0%

Listed below are all members of your household entered on the application. If any household member is missing, please return to the People Tab and add them. When all household members have been listed, please tell us each person's relationship to one another. This information is required to process your application.

\* Red asterisk indicates required

Household Member	Relationship*	Related Household Member	Start Date	Parental Control
CDKMJTEIFN HRMYWLODLN	is the <input type="text" value="Child"/>	of ZKOQPBSDFN BZSCZPYBLN	as of <input type="text"/>	<input checked="" type="checkbox"/>

There is no other household member identified to have a relationship with. Please go to People category to add if you have missed anyone.

Back Save and Continue

<b>Notes</b>	<ul style="list-style-type: none"> <li>To fetch the rows, the headers should not have spaces. For example Auth Amount or Date Run, they have a space between them, so the space needs to be removed, like the above example.</li> <li>When the table has headers we can also use the comand "Given the "TABLE" table with no header exists" (To search the table), and use the COL to fetch the row.</li> <li>When the table has headers and we use the comand "Given the "TABLE" table with no header exists" (To search the table), only COL will work, Names of column wont work, since command used is "Table with no headers".</li> <li>When the table has headers and we use the comand "Given the "TABLE" table exists" (To search the table), only Names of column will work, COL column wont work, since command used is "Table exists".</li> </ul>
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## Validation

How to validate strings	
How to validate a string is displayed in the page with a specific string	
<b>Description</b>	Validate a string displayed in page as webelement against a specific string. If the webelement exist in page, framework will compare if are equal or not displaying in console, if the webelement does not exist, console will display that Field not found on screen.
<b>Command</b>	<p><b>Then (Verify Validate if the) "String 1" data equal "String 2"</b></p> <p><b>Then (Verify Validate) "String 1" data = "String 2"</b></p>
<b>Parameters description</b>	<ul style="list-style-type: none"> <li><b>(Verify Validate if the):</b> Type of command to perform the action. Chose one. Basically the action is the same.</li> <li><b>String 1:</b> String (webelement) taken from page. It's a kind of variable in which will store the value (string) of the webelement located in page.</li> <li><b>String 2:</b> Specific string provided by user to validate verif.</li> </ul>
<b>Example(s)</b>	<p><b>Given</b> I am on the "Web Information" page</p> <p><b>Then Verify</b> "Web message element" data equal "Any message value"</p> <p><b>Then Verify</b> "Web message element" data = "Any message value"</p> <ul style="list-style-type: none"> <li>This will verify the value of "Web message element" is equal to "Any message value". The "Web message element" should be defined in data model with respective xpath to get the value of that element and compare it with String 2.</li> </ul> <p><b>Given</b> I am on the "Web Information" page</p> <p><b>Then Validate if the</b> "Web message element" data equal "Any message value"</p> <p><b>Then Validate if the</b> "Web message element" data = "Any message value"</p> <ul style="list-style-type: none"> <li>This will validate if the "Web message element" value is equal to "Any message value". The "Web message element" should be defined in data model with respective xpath to get the value of that element and compare it with String 2</li> </ul>
<b>Notes</b>	<p>Before this command is used, a page webelement must have been defined.</p> <ul style="list-style-type: none"> <li>The engine will look for the webelement to set the data from the page currently in context.</li> </ul>
How to validate a string is not displayed in the page with a specific string	



<b>Description</b>	This commands validates a webelement text contents is not equal to the contents of a string variable
<b>Command</b>	<b>Then (Verify Validate if the) "String 1" data not equals "String 2"</b>
<b>Parameters description</b>	<p><b>(Verify Validate if the):</b> Type of command to perform the action. Chose one. Basically the action is the same.</p> <ul style="list-style-type: none"> <li>• <b>String 1:</b> String (webelement) taken from page. It's a kind of variable in which will store the value (string) of the webelement located in page.</li> <li>• <b>String 2:</b> Specific string provided by user to validate verif.</li> </ul>
<b>Example(s)</b>	<p><b>Given</b> I am on the <b>"Web Information"</b> page</p> <p><b>Then</b> Verify <b>"Web message element"</b> data not equals <b>"Any message value"</b></p> <ul style="list-style-type: none"> <li>• This will verify the value of <b>"Web message element"</b> is equal to <b>"Any message value"</b>. The <b>"Web message element"</b> should be defined in data model with respective xpath to get the value of that element and compare it with String 2.</li> </ul> <hr/> <p><b>Given</b> I am on the <b>"Web Information"</b> page</p> <p><b>Then</b> Validate if the <b>"Web message element"</b> data equal <b>"Any message value"</b></p> <ul style="list-style-type: none"> <li>• This will validate if the <b>"Web message element"</b> value is equal to <b>"Any message value"</b>. The <b>"Web message element"</b> should be defined in data model with respective xpath to get the value of that element and compare it with String 2</li> </ul>
<b>Notes</b>	<p>Before this command is used, a page webelement must have been defined.</p> <ul style="list-style-type: none"> <li>• The engine will look for the webelement to set the data from the page currently in context.</li> </ul>

### How to validate if an UI field data equals or contains a string from a value or variable

<b>Description</b>	Validate or verify if a UI field data contains a string from a value or variable. If the UI field data does not contain the string specified, console will display that the UI field data does not contain that string.
<b>Command</b>	<p><b>Then (Verify Validate) "String 1" UI field data contains "String 2" variable</b></p> <p><b>Then (Verify Validate) "String 1" UI field data contains "String 2"</b></p> <p><b>Then (Verify Validate) "String 1" UI field data = "String 2"</b></p>
<b>Parameters description</b>	<ul style="list-style-type: none"> <li>• <b>(Verify Validate if the):</b> Type of command to perform the action. Chose one. Basically the action is the same.</li> <li>• <b>String 1:</b> String (webelement) taken from page. It's a kind of variable in which will store the value (string) of the webelement located in page.</li> <li>• <b>String 2:</b> String (variable or value) taken from the dataset or declared directly in the script.</li> </ul>
<b>Example(s)</b>	<p><b>Given</b> I am on the <b>"Web Information"</b> page</p> <p><b>Then</b> Verify <b>"Web message"</b> UI field data contains <b>"Message Expected"</b> variable</p> <p><b>Then</b> Verify <b>"Web message"</b> UI field data = <b>"Message Expected"</b></p> <ul style="list-style-type: none"> <li>• This will verify if the <b>"Web message"</b> value data contains the <b>"Message Expected"</b> variable data. The <b>"Web message"</b> should be defined in data model with respective xpath to get the value of that element and framework will check if exist on page.</li> </ul> <p><b>Given</b> I am on the <b>"Web Information"</b> page</p> <p><b>Then</b> Validate <b>"Web message"</b> UI field data contains <b>"Complete Message Expected"</b></p> <p><b>Then</b> Validate <b>"Web message"</b> UI field data = <b>"Complete Message Expected"</b></p> <ul style="list-style-type: none"> <li>• This will verify if the <b>"Web message"</b> value data contains the <b>"Complete Message Expected"</b> string. The <b>"Web message"</b> should be defined in data model with respective xpath to get the value of that element and framework will check if exist on page.</li> </ul>

<b>Notes</b>	<p>Before this command is used, a page webelement must have been defined.</p> <ul style="list-style-type: none"> <li>The engine will look for the webelement to set the data from the page currently in context.</li> </ul>
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### How to validate if an UI field data does NOT contain a string from a value or variable

<b>Description</b>	Validate or verify if a UI field data does not contain a string from a value or variable.
<b>Command</b>	<p><b>Then (Verify Validate) "String 1"</b> UI field data does not contain <b>"String 2"</b> variable</p> <p><b>Then (Verify Validate) "String 1"</b> UI field data does not contain <b>"String 2"</b></p>
<b>Parameters description</b>	<p><b>(Verify Validate if the):</b> Type of command to perform the action. Chose one. Basically the action is the same.</p> <ul style="list-style-type: none"> <li><b>String 1:</b> String (webelement) taken from page. It's a kind of variable in which will store the value (string) of the webelement located in page.</li> <li><b>String 2:</b> String (variable or value) taken from the dataset or declared directly in the script.</li> </ul>
<b>Example(s)</b>	<p><b>Given</b> I am on the <b>"Web Information"</b> page</p> <p><b>Then</b> Verify <b>"Web message"</b> UI field data does not contain <b>"Message Expected"</b> variable</p> <ul style="list-style-type: none"> <li>This will verify if the <b>"Web message"</b> value data does not contain the <b>"Message Expected"</b> variable data. The <b>"Web message"</b> should be defined in data model with respective xpath to get the value of that element and framework will check if exist on page.</li> </ul> <p><b>Given</b> I am on the <b>"Web Information"</b> page</p> <p><b>Then</b> Validate <b>"Web message"</b> UI field data does not contain <b>"Complete Message Expected"</b></p> <ul style="list-style-type: none"> <li>This will verify if the <b>"Web message"</b> value data contains the <b>"Complete Message Expected"</b> string. The <b>"Web message"</b> should be defined in data model with respective xpath to get the value of that element and framework will check if exist on page.</li> </ul>
<b>Notes</b>	<p>Before this command is used, a page webelement must have been defined.</p> <ul style="list-style-type: none"> <li>The engine will look for the webelement to set the data from the page currently in context.</li> </ul>

### How to validate if an UI field data equals a string from a query results

<b>Description</b>	Validate or verify if a UI field data is equal a string from a query results. If the UI field data is not equal the string specified, console will display that the UI field data is not equal to that string.												
<b>Command</b>	<b>Then (Verify Validate) "String 1"</b> UI field data = <b>"String 2"</b> from query results												
<b>Parameters Description</b>	<ul style="list-style-type: none"> <li><b>(Verify Validate):</b> Type of command to perform the action. Chose one. Basically the action is the same.</li> <li><b>String 1:</b> String (webelement) taken from page. It's a kind of variable in which will store the value (string) of the webelement located in page.</li> <li><b>String 2:</b> String (variable or value) taken from the datasource (query result).</li> </ul>												
<b>Example(s)</b>	<p><b>Then</b> Verify <b>"SSN"</b> UI field data = <b>"SSN_id"</b> from query results</p> <p><b>Then</b> Validate <b>"SSN"</b> UI field data = <b>"SSN_id"</b> from query results</p> <p>Query: Select <b>SSN_id</b> from ABMS_table</p> <p>Datasource:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 5%;"></th> <th style="width: 45%;">A</th> <th style="width: 30%;">B</th> <th style="width: 20%;">C</th> </tr> </thead> <tbody> <tr> <td>140</td> <td>ABMS Database Results</td> <td></td> <td></td> </tr> <tr> <td>141</td> <td>SSN</td> <td>ABMS Database</td> <td>12345678</td> </tr> </tbody> </table> <p>For this case, the engine will compare the UI data defined as webelement against the database column. If the data validation is not the same, the engine will throw an error message indicating the current values.</p>		A	B	C	140	ABMS Database Results			141	SSN	ABMS Database	12345678
	A	B	C										
140	ABMS Database Results												
141	SSN	ABMS Database	12345678										
<b>Notes</b>													

## How to validate if a string exists on page

<b>Descrip tion</b>	Validate or verify if a string exists on a page. If the string does not exist in page, console will display that Field not found on screen.
<b>Comma nd</b>	<b>Then (Verify Validate if the) "String 1"</b> exists on page
<b>Parame ters descrip tion</b>	<ul style="list-style-type: none"> <li>• <b>(Verify Validate if the):</b> Type of command to perform the action. Chose one. Basically the action is the same.</li> <li>• <b>String 1:</b> String (webelement) taken from page. It's a kind of variable in which will store the value (string) of the webelement located in page.</li> </ul>
<b>Examp le(s)</b>	<p><b>Given</b> I am on the "<b>Web Information</b>" page</p> <p><b>Then</b> Verify "<b>Web message</b>" exists on page</p> <ul style="list-style-type: none"> <li>• This will verify the value of "<b>Web message</b>" string exist on a page. The "<b>Web message</b>" should be defined in data model with respective xpath to get the value of that element and framework will check if exist on page.</li> </ul> <p><b>Given</b> I am on the "<b>Web Information</b>" page</p> <p><b>Then</b> Validate if the "<b>Web message</b>" exists on page</p> <ul style="list-style-type: none"> <li>• This will validate if the "<b>Web message</b>" string exist on a page. The "<b>Web message</b>" should be defined in data model with respective xpath to get the value of that element and framework will check if exist on page</li> </ul>
<b>Notes</b>	<p>Before this command is used, a page webelement must have been defined.</p> <ul style="list-style-type: none"> <li>• The engine will look for the webelement to set the data from the page currently in context.</li> </ul>

## How to validate if a string does not exist on page

<b>Descrip tion</b>	Validate or verify if a string does not exist on a page. If the string does exist in page, console will display that Field was found on screen.
<b>Comm and</b>	<b>Then (Verify Validate if the) "String 1"</b> does not exist on page
<b>Param eters Descrip tion</b>	<p><b>(Verify Validate if the):</b> Type of command to perform the action. Chose one. Basically the action is the same.</p> <ul style="list-style-type: none"> <li>• <b>String 1:</b> String (webelement) taken from page. It's a kind of variable in which will store the value (string) of the webelement located in page.</li> </ul>
<b>Examp le(s)</b>	<p><b>Given</b> I am on the "<b>Web Information</b>" page</p> <p><b>Then</b> Verify "<b>Web message</b>" does not exist on page</p> <ul style="list-style-type: none"> <li>• This will verify the value of "<b>Web message</b>" string does not exist on a page. The "<b>Web message</b>" should be defined in data model with respective xpath to get the value of that element and framework will check if exist on page.</li> </ul> <p><b>Given</b> I am on the "<b>Web Information</b>" page</p> <p><b>Then</b> Validate if the "<b>Web message</b>" does not exist on page</p> <ul style="list-style-type: none"> <li>• This will validate if the "<b>Web message</b>" string does not exist on a page. The "<b>Web message</b>" should be defined in data model with respective xpath to get the value of that element and framework will check if exist on page</li> </ul>
<b>Notes</b>	<p>Before this command is used, a page webelement must have been defined.</p> <ul style="list-style-type: none"> <li>• The engine will look for the webelement to set the data from the page currently in context.</li> </ul>

## How to validate a string displayed in the page is equal to a specific value in memory

<b>Descrip tion</b>	Validate a string displayed in page as webelement against a variable. If the webelement exist in page, framework will compare the webelement against a variable. The variable should be part of an existing dataset.
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<b>Command</b>	<b>Then (Verify Validate if the) "String 1"</b> data equals <b>"String 2"</b> variable
<b>Parameters description</b>	<ul style="list-style-type: none"> <li>• <b>(Verify Validate if the):</b> Type of command to perform the action. Chose one. Basically the action is the same.</li> <li>• <b>String 1:</b> String (webelement) taken from page. It's a kind of variable in which will store the value (string) of the webelement located in page.</li> <li>• <b>String 2 :</b> Name of the variable to compare with.</li> </ul>
<b>Example(s)</b>	<p><b>Given</b> I am on the <b>"Web Information"</b> page</p> <p><b>Then</b> Verify <b>"Web message"</b> data equals <b>"My Name"</b> variable</p> <ul style="list-style-type: none"> <li>• This will verify the value of <b>"Web message"</b> string exist on a page against a variable called <b>"My Name"</b>. The <b>"Web message"</b> should be defined in data model with respective xpath to get the value of that element and framework will check if the value is equal to the variable.</li> </ul> <p><b>Given</b> I am on the <b>"Web Information"</b> page</p> <p><b>Then</b> Validate if the <b>"Web message"</b> data equals <b>"My Name"</b> variable</p> <ul style="list-style-type: none"> <li>• This will validate if the <b>"Web message"</b> string displayed in page is equal against a variable. The <b>"Web message"</b> should be defined in data model with respective xpath to get the value of that element and framework will check if the value is equal to the variable</li> </ul>
<b>Notes</b>	<p>Before this command is used, a page webelement must have been defined.</p> <ul style="list-style-type: none"> <li>• The engine will look for the webelement to set the data from the page currently in context.</li> </ul>

## How to validate an action over a webelement in a page

<b>Description</b>	Validate if an element of the webpage is <b>not</b> editable clickable actionable. Console will responde if an element of the webpage is not editable, clickable or actionable.
<b>Command</b>	<p><b>Then (Verify Validate if the) "String 1" (field button link radio button check box checkbox text box) is (editable clickable actionable)</b></p> <p><b>Then (Verify Validate if the) "String 1"</b> button is visible</p>
<b>Parameters description</b>	<ul style="list-style-type: none"> <li>• <b>(Verify Validate if the):</b> Type of command to perform the action. Chose one. Basically the action is the same.</li> <li>• <b>String 1:</b> webelement name in which we want to validate an action. This webelement should be defined in data model to get the xpath of the page.</li> <li>• <b>(field button link radio button check box checkbox text box):</b> Type of element of the page. Chose one.</li> <li>• <b>(editable clickable actionable):</b> Type of action over webelement editable clickable actionable on the webpage. Chose one.</li> </ul>
<b>Example(s)</b>	<p><b>Given</b> I am on the <b>"Web Information"</b> page</p> <p><b>Then</b> Verify <b>"Case Number"</b> field is <b>editable</b></p> <p><b>Then</b> Verify <b>"Case Number"</b> field is <b>clickable</b></p> <p><b>Then</b> Verify <b>"Case Number"</b> field is <b>actionable</b></p> <p><b>Then</b> Validate if the <b>"Case number"</b> field is <b>editable</b></p> <p><b>Then</b> Validate if the <b>"Case number"</b> field is <b>clickable</b></p> <p><b>Then</b> Validate if the <b>"Case number"</b> field is <b>actionable</b></p> <ul style="list-style-type: none"> <li>• Depending of the action you want to perform, framework will check the element of the page if is editable, clickable or actionable.</li> </ul> <p><b>Then</b> Verify <b>"Continue"</b> button is <b>editable</b></p> <p><b>Then</b> Verify <b>"Continue"</b> button is <b>clickable</b></p> <p><b>Then</b> Verify <b>"Continue"</b> button is <b>actionable</b></p> <p><b>Then</b> Verify <b>"Continue"</b> button is <b>visible</b></p> <p><b>Then</b> Validate if the <b>"Continue"</b> button is <b>editable</b></p> <p><b>Then</b> Validate if the <b>"Continue"</b> button is <b>clickable</b></p>

**Then Validate if the "Continue" button is actionable**

**Then Validate if the "Continue" button is visible**

- Depending of the action you want to perform, framework will check the element of the page if is editable, clickable or actionable.

**Then Verify "Application Number" link is editable**

**Then Verify "Application Number" link is clickable**

**Then Verify "Application Number" link is actionable**

**Then Validate if the "Application Number" link is editable**

**Then Validate if the "Application Number" link is clickable**

**Then Validate if the "Application Number" link is actionable**

- Depending of the action you want to perform, framework will check the element of the page if is editable, clickable or actionable.

**Then Verify "Radio Button 1" radio button is editable**

**Then Verify "Radio Button 1" radio button is clickable**

**Then Verify "Radio Button 1" radio button is actionable**

**Then Validate if the "Radio Button 1" radio button is editable**

**Then Validate if the "Radio Button 1" radio button is clickable**

**Then Validate if the "Radio Button 1" radio button is actionable**

- Depending of the action you want to perform, framework will check the element of the page if is editable, clickable or actionable.

**Then Verify "Sign Name Yes" check box is editable**

**Then Verify "Sign Name Yes" check box is clickable**

**Then Verify "Sign Name Yes" check box is actionable**

**Then Validate if the "Sign Name Yes" check box is editable**

**Then Validate if the "Sign Name Yes" check box is clickable**

**Then Validate if the "Sign Name Yes" check box is actionable**

- Depending of the action you want to perform, framework will check the element of the page if is editable, clickable or actionable.

**Then Verify "Checkbox 1" checkbox is editable**

**Then Verify "Checkbox 1" checkbox is clickable**

**Then Verify "Checkbox 1" checkbox is actionable**

**Then Validate if the "Checkbox 1" checkbox is editable**

**Then Validate if the "Checkbox 1" checkbox is clickable**

**Then Validate if the "Checkbox 1" checkbox is actionable**

- Depending of the action you want to perform, framework will check the element of the page if is editable, clickable or actionable.

**Then Verify "User Name" text box is editable**

**Then Verify "User Name" text box is clickable**

**Then Verify "User Name" text box is actionable**

**Then Validate if the "User Name" text box is editable**

**Then Validate if the "User Name" text box is clickable**

**Then Validate if the "User Name" text box is actionable**

- Depending of the action you want to perform, framework will check the element of the page if is editable, clickable or actionable.

<b>Notes</b>	<p>Before this command is used, a page webelement must have been defined.</p> <ul style="list-style-type: none"> <li>The engine will look for the webelement to set the data from the page currently in context.</li> </ul>
<b>How to validate an action over a webelement in page (When the webelement is not actionable)</b>	
<b>Description</b>	<p>Validate if an element of the webpage is <b>not</b> editable clickable actionable. Console will responde if an element of the webpage is not editable, clickable or actionable.</p>
<b>Command</b>	<p><b>Then (Verify Validate if the) "String 1" (field button link radio button check box checkbox text box) is not (editable clickable actionable)</b></p>
<b>Parameters description</b>	<ul style="list-style-type: none"> <li><b>(Verify Validate if the):</b> Type of command to perform the action. Chose one. Basically the action is the same.</li> <li><b>String 1:</b> webelement name in which we want to validate an action. This webelement should be defined in data model to get the xpath of the page.</li> <li><b>(field button link radio button check box checkbox text box):</b> Type of element of the page. Chose one.</li> <li><b>(editable clickable actionable):</b> Type of action ver webelement editable clickable actionable on the webpage.. Chose one.</li> </ul>
<b>Example(s)</b>	<p><b>Given</b> I am on the "Web Information" page</p> <p><b>Then Verify</b> "Case Number" field is not editable</p> <p><b>Then Verify</b> "Case Number" field is not clickable</p> <p><b>Then Verify</b> "Case Number" field is not actionable</p> <p><b>Then Validate if the</b> "Case number" field is not editable</p> <p><b>Then Validate if the</b> "Case number" field is not clickable</p> <p><b>Then Validate if the</b> "Case number" field is not actionable</p> <ul style="list-style-type: none"> <li>Depending of the action you want to perform, framework will check the element of the page if is not editable, clickable or actionable.</li> </ul> <p><b>Then Verify</b> "Continue" button is not editable</p> <p><b>Then Verify</b> "Continue" button is not clickable</p> <p><b>Then Verify</b> "Continue" button is not actionable</p> <p><b>Then Verify</b> "Continue" button is not visible</p> <p><b>Then Validate if the</b> "Continue" button is not editable</p> <p><b>Then Validate if the</b> "Continue" button is not lickable</p> <p><b>Then Validate if the</b> "Continue" button is not actionable</p> <p><b>Then Validate if the</b> "Continue" button is not visible</p> <ul style="list-style-type: none"> <li>Depending of the action you want to perform, framework will check the element of the page if is not editable, clickable or actionable.</li> </ul> <p><b>Then Verify</b> "Application Number" link is not editable</p> <p><b>Then Verify</b> "Application Number" link is not clickable</p> <p><b>Then Verify</b> "Application Number" link is not actionable</p> <p><b>Then Validate if the</b> "Application Number" link is not editable</p> <p><b>Then Validate if the</b> "Application Number" link is not clickable</p> <p><b>Then Validate if the</b> "Application Number" link is not actionable</p> <ul style="list-style-type: none"> <li>Depending of the action you want to perform, framework will check the element of the page if is not editable, clickable or actionable.</li> </ul> <p><b>Then Verify</b> "Radio Button 1" radio button is not editable</p> <p><b>Then Verify</b> "Radio Button 1" radio button is not lickable</p> <p><b>Then Verify</b> "Radio Button 1" radio button is not actionable</p>

	<p><b>Then Validate if the "Radio Button 1" radio button is not editable</b></p> <p><b>Then Validate if the "Radio Button 1" radio button is not clickable</b></p> <p><b>Then Validate if the "Radio Button 1" radio button is not actionable</b></p> <ul style="list-style-type: none"> <li>Depending of the action you want to perform, framework will check the element of the page if is not editable, clickable or actionable.</li> </ul> <p><b>Then Verify "Sign Name Yes" check box is not editable</b></p> <p><b>Then Verify "Sign Name Yes" check box is not clickable</b></p> <p><b>Then Verify "Sign Name Yes" check box is not actionable</b></p> <p><b>Then Validate if the "Sign Name Yes" check box is not editable</b></p> <p><b>Then Validate if the "Sign Name Yes" check box is not clickable</b></p> <p><b>Then Validate if the "Sign Name Yes" check box is not actionable</b></p> <ul style="list-style-type: none"> <li>Depending of the action you want to perform, framework will check the element of the page if is not editable, clickable or actionable.</li> </ul> <p><b>Then Verify "Checkbox 1" checkbox is not editable</b></p> <p><b>Then Verify "Checkbox 1" checkbox is not clickable</b></p> <p><b>Then Verify "Checkbox 1" checkbox is not actionable</b></p> <p><b>Then Validate if the "Checkbox 1" checkbox is not editable</b></p> <p><b>Then Validate if the "Checkbox 1" checkbox is not clickable</b></p> <p><b>Then Validate if the "Checkbox 1" checkbox is not actionable</b></p> <ul style="list-style-type: none"> <li>Depending of the action you want to perform, framework will check the element of the page if is not editable, clickable or actionable.</li> </ul> <p><b>Then Verify "User Name" text box is not editable</b></p> <p><b>Then Verify "User Name" text box is not clickable</b></p> <p><b>Then Verify "User Name" text box is not actionable</b></p> <p><b>Then Validate if the "User Name" text box is not editable</b></p> <p><b>Then Validate if the "User Name" text box is not clickable</b></p> <p><b>Then Validate if the "User Name" text box is not actionable</b></p> <ul style="list-style-type: none"> <li>Depending of the action you want to perform, framework will check the element of the page if is not editable, clickable or actionable.</li> </ul>
<b>Notes</b>	<p>Before this command is used, a page webelement must have been defined.</p> <ul style="list-style-type: none"> <li>The engine will look for the webelement to set the data from the page currently in context.</li> </ul>

## How to validate a string displayed in the page is equal to a specific value captured in a dataset.

<b>Description</b>	<p>Validate a string displayed in page as webelement against a string specified in a dataset. If the webelement exist in page, framework will compare if value displayed in page is equal to value captured in the dataset which is the expected value, the field name of the element in model and field name in dataset should be the same so a new variable should not be captured in model.</p>
<b>Command</b>	<p><b>Then (Verify Validate if the) "Field Name" data equal "Field Name"</b></p>
<b>Parameters description</b>	<ul style="list-style-type: none"> <li><b>(Verify Validate if the):</b> Type of command to perform the action. Chose one. Basically the action is the same.</li> <li><b>Field Name:</b> String (webelement) taken from page. It's a kind of variable in which will store the value (string) of the webelement located in page.</li> <li><b>Field Name:</b> Specific string captured by user in the dataset to validate verify.</li> </ul>

<b>Example(s)</b>	<p><b>Given</b> I am on the "<b>Web Information</b>" page</p> <p><b>Then</b> Validate if the "<b>Web label element</b>" data equals "<b>Web label element</b>" variable</p> <ul style="list-style-type: none"> <li>This will verify the value of "<b>Web label element</b>" is equal to "<b>Web label element</b>". The "<b>Web label element</b>" should be defined in data model with respective xpath to get the value of that element and compare it with String captured in the dataset.</li> </ul>
	<p><b>Given</b> I am on the "<b>Web Information</b>" page</p> <p><b>Then</b> Verify "<b>Web label element</b>" data equals "<b>Web label element</b>" variable</p> <ul style="list-style-type: none"> <li>This will verify the value of "<b>Web label element</b>" string exist on a page against a field name captured in the dataset as "<b>Web label element</b>". The "<b>Web label element</b>" should be defined in data model with respective xpath to get the value of that element and framework will check if the value is equal to the field name value.</li> </ul>
<b>Notes</b>	<p>Before this command is used, a page webelement must have been defined.</p> <ul style="list-style-type: none"> <li>The engine will look for the webelement to set the data from the page currently in context.</li> </ul>

[More Topics](#)

How to validate tool tip text of field	
<b>Description</b>	Validate a string displayed in a tooltip field against a specific string.
<b>Command</b>	<b>Then</b> (Verify Validate if the) tool tip text of " <b>Parameter 1</b> " field equals " <b>Parameter 2</b> "
<b>Parameters description</b>	<ul style="list-style-type: none"> <li>"<b>Parameter 1</b>": It's the webelement which contains the tooltip.</li> <li>"<b>Parameter 2</b>": It's the string value to compare.</li> <li>(Verify Validate if the): Type of command to perform the action. Chose one. Basically the action is the same.</li> </ul>
<b>Example(s)</b>	<b>Then</b> Verify tool tip text of " <b>Case Number</b> " field equals " <b>Case Number: NNNNN</b> "
<b>Notes</b>	<p>Before this command is used, a page webelement must have been defined.</p> <ul style="list-style-type: none"> <li>The engine will look for the webelement to set the data from the page currently in context.</li> </ul>

[More Topics](#)

How to validate variables	
How to validate if a variable data contains a string from other variable or specific string	
<b>Description</b>	Validates or verify if a variable data contains a string from a variable or specific string
<b>Command</b>	<p><b>Then</b> Verify Validate "<b>Parameter 1</b>" variable data contains "<b>Parameter 2</b>" variable data</p> <p><b>Then</b> Verify Validate "<b>Parameter 1</b>" variable data contains "<b>Parameter 3</b>"</p>
<b>Parameters description</b>	<ul style="list-style-type: none"> <li>"<b>Parameter 1</b>": Is the name of a variable.</li> <li>"<b>Parameter 2</b>": It's the name of a variable to compare.</li> <li>"<b>Parameter 3</b>": It's any string to compare.</li> </ul>



<b>Example(s)</b>	<p><b>Then</b> Verify "Last Name1" variable data contains "Last Name2" variable data</p> <p><b>Then</b> Validate "Last Name1" variable data contains "Last Name2" variable data</p> <ul style="list-style-type: none"> <li>• This function will compare the variables and will check if Last Name1 data is contained in Last Name2.</li> </ul> <p><b>Then</b> Verify "Last Name1" variable data contains "Text"</p> <p><b>Then</b> Validate "Last Name1" variable data contains "Text" variable data</p> <ul style="list-style-type: none"> <li>• This function will compare the variable against the string and will check if Last Name1 data contains the value : "Text"</li> </ul>
<b>Notes</b>	

### How to validate if a variable data does not contain a string from other variable or specific string

<b>Description</b>	Validates or verify if a variable data does not contain a string from a variable or specific string.
<b>Command</b>	<p><b>Then</b> Verify Validate "Parameter 1" variable data does not contain "Parameter 2" variable data</p> <p><b>Then</b> Verify Validate "Parameter 1" variable data does not contain "Parameter 3"</p>
<b>Parameters description</b>	<ul style="list-style-type: none"> <li>• "Parameter 1": Is the name of a variable.</li> <li>• "Parameter 2": It's the name of a variable to compare.</li> <li>• "Parameter 3": It's any string to compare.</li> </ul>
<b>Example(s)</b>	<p><b>Then</b> Verify "Last Name1" variable data does not contain "Last Name2" variable data</p> <p><b>Then</b> Validate "Last Name1" variable data does not contain "Last Name2" variable data</p> <ul style="list-style-type: none"> <li>• This function will compare the variables and will check if Last Name1 data is not contained in Last Name2.</li> </ul> <p><b>Then</b> Verify "Last Name1" variable data does not contain "Text"</p> <p><b>Then</b> Validate "Last Name1" variable data does not contain "Text" variable data</p> <ul style="list-style-type: none"> <li>• This function will compare the variable against the string and will check if Last Name1 data is not contained the value : "Text"</li> </ul>
<b>Notes</b>	

### How to validate if a variable data is equal to other variable data

<b>Description</b>	Validates or verify if a variable data is equal to other variable data.
<b>Command</b>	<b>Then</b> Verify Validate "Parameter 1" variable data equals "Parameter 2" variable data
<b>Parameters description</b>	<ul style="list-style-type: none"> <li>• "Parameter 1": It's the name of a variable to compare.</li> <li>• "Parameter 2": It's the name of a variable to compare.</li> </ul>
<b>Example(s)</b>	<p><b>Then</b> Verify "Last Name1" variable data equals "Last Name2" variable data</p> <p><b>Then</b> Validate "Last Name1" variable data equals "Last Name2" variable data</p> <ul style="list-style-type: none"> <li>• This function will compare the variables and will check if Last Name1 data is equal to Last Name2.</li> </ul>
<b>Notes</b>	

### How to validate if a variable data is NOT equal to other variable data

<b>Description</b>	This command validates a string variable is not equal to another string variable
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<b>Command</b>	<b>Then</b> Verify Validate <b>"Parameter 1"</b> variable data not equals <b>"Parameter 2"</b> variable data
<b>Parameters Description</b>	<ul style="list-style-type: none"> <li>• <b>"Parameter 1"</b>: It's the name of a variable to compare.</li> <li>• <b>"Parameter 2"</b>: It's the name of a variable to compare.</li> </ul>
<b>Example(s)</b>	<p><b>Then</b> Verify <b>"Last Name1"</b> variable data not equals <b>"Last Name2"</b> variable data</p> <p><b>Then</b> Validate <b>"Last Name1"</b> variable data not equals <b>"Last Name2"</b> variable data</p> <ul style="list-style-type: none"> <li>• This function will compare the variables and will check if Last Name1 data is not equal to Last Name2.</li> </ul>
<b>Notes</b>	

[More Topics](#)

## How to validate drop down values

### How to validate if a value exists on drop down

<b>Description</b>	Validate that value exist in drop down
<b>Command</b>	<ol style="list-style-type: none"> <li>1. Then Verify <b>"String"</b> value is available in the drop down <b>"Drop down Identifier"</b></li> <li>2. Then Verify <b>"\$String"</b> value is available in the drop down <b>"Drop down Identifier"</b></li> </ol>
<b>Parameters description</b>	<p><b>String</b> parameter can be used when user wants to validate specific text otherwise if text exist in datasource document, user can use symbol \$ + element name specified in the model document.</p> <p>For the second parameter <b>Drop down Identifier</b>, insert drop down name specified in the model document</p>
<b>Example(s)</b>	<ol style="list-style-type: none"> <li>1. Then Verify <b>"Texas"</b> value is available in the drop down <b>"State"</b></li> <li>2. Then Verify <b>"\$State"</b> value is available in the drop down <b>"State DD"</b></li> </ol> <p>State = Texas</p>
<b>Notes</b>	

### How to validate if a value is Not available on dropdown

<b>Description</b>	This command validates a dropwown webelement does not contain a specific text. Text can be a specific string or a variable.
<b>Command</b>	<b>Then (Verify Validate) "Parameter 1"</b> value is not available in the drop down <b>"Parameter 2"</b>
<b>Parameters description</b>	<ul style="list-style-type: none"> <li>• <b>"Parameter 1"</b>: The specific text value</li> <li>• <b>"Parameter 2"</b>: The name of the dropdown</li> </ul>
<b>Example(s)</b>	<p>Then <b>Verify "Texas"</b> value is not available in the drop down <b>"States"</b></p> <p>Then <b>Validate "Texas"</b> value is not available in the drop down <b>"States"</b></p> <p>The result of this validation will be if Texas value exists or not exists on the dropwown</p>
<b>Notes</b>	

## How to validate values in tables

### How to validate a row exists in a table

Description	This command validates if a row exists based on criteria specified.
Command	1. Then Validate table row exists using " <b>Parameter 1</b> "
Parameters description	<b>Parameter 1</b> is a criteria parameter that could be used to specify if the value of the column contains(#contains) or is equals(COL#=) to a value of data source, user can use symbol \$ + element name specified in the data source document.
Example(s)	<ol style="list-style-type: none"> <li>1. Then Validate table row exists using "<b>#contains(COLO,\$[ErrorMessage1])</b>"</li> <li>2. Then Validate table row exists using "<b>#COL0=\$[ErrorMessage]</b>"</li> <li>3. Then Validate table row exists using "<b>#doesNotcontain(COLO,\$[ErrorMessage1])</b>"</li> </ol> <p>These commands will validate the value of a column contains, does not contain or is equals to a value of the data source file.</p>
Notes	

## How to validate a row does NOT exist in a table

Description	This command validates if a row does not exists in a table based on criteria specified
Command	1. Then Validate table row doesnot exist using " <b>Parameter 1</b> "
Parameters description	<b>Parameter 1</b> is a criteria parameter that could be used to specify if the value of the column contains(#contains) or is equals(COL#=) to a value of data source, user can use symbol \$ + element name specified in the data source document.
Example(s)	<ol style="list-style-type: none"> <li>1. Then Validate table row doesnot exist using "<b>#contains(COLO,\$[FakeMessage])</b>"</li> <li>2. Then Validate table row doesnot exist using "<b>#COL0=\$[FakeMessage]</b>"</li> <li>3. Then Validate table row doesnot exist using "<b>#doesNotcontain(COLO,\$[FakeMessage])</b>"</li> </ol> <p>These commands will validate the value of a column contains, does not contain or is equals to a value of the data source file.</p>
Notes	

[More Topics](#)

## Flow

### How to set the current page in context

<b>Description</b>	Defines the page in context that will be used for all webelements used afterwards																																																												
<b>Command</b>	<b>Given</b> I am on the " <b>Parameter 1</b> " page																																																												
<b>Parameters description</b>	<ul style="list-style-type: none"> <li>• <b>Parameter 1</b>: Page Element. Following processes will use this page to look for individual webelements unless another page is specified.</li> </ul>																																																												
<b>Example(s)</b>	<p><b>Given</b> I am on the "<b>Personal Information</b>" page</p> <p><b>Then</b> I set data to "<b>First Name</b>" field</p> <p><b>Then</b> I set data to "<b>Last Name</b>" field</p> <ul style="list-style-type: none"> <li>• In this example, the engine will look for the "First Name" properties that belong to the page "Personal Information.</li> </ul> <table border="1" style="font-size: small;"> <thead> <tr> <th>1</th> <th>ScreenName</th> <th>Label</th> <th>FieldName</th> <th>Type</th> <th>Text/Button/Ch is Multiple</th> <th>Version</th> <th>Create/Upd</th> <th>Xpath</th> <th>WaitTime</th> </tr> </thead> <tbody> <tr> <td>283</td> <td>Personal Information</td> <td>Date of Birth</td> <td>Date of Birth</td> <td>Text</td> <td>N</td> <td>1</td> <td>Both</td> <td>//*[@id='dateOfBirth']</td> <td>3</td> </tr> <tr> <td>284</td> <td>Personal Information</td> <td>First Name</td> <td>First Name</td> <td>Text</td> <td>N</td> <td>1</td> <td>Both</td> <td>//*[@id='firstName']</td> <td>3</td> </tr> <tr> <td>285</td> <td>Personal Information</td> <td>First Name Person 1</td> <td>First Name Person 1</td> <td>Text</td> <td>N</td> <td>1</td> <td>Both</td> <td>//*[@id='firstName']</td> <td>3</td> </tr> <tr> <td>286</td> <td>Personal Information</td> <td>Last Name</td> <td>Last Name</td> <td>Text</td> <td>N</td> <td>1</td> <td>Both</td> <td>//*[@id='lastName']</td> <td>3</td> </tr> <tr> <td>287</td> <td>Personal Information</td> <td>Last Name Person 1</td> <td>Last Name Person 1</td> <td>Text</td> <td>N</td> <td>1</td> <td>Both</td> <td>//*[@id='lastName']</td> <td>3</td> </tr> </tbody> </table>	1	ScreenName	Label	FieldName	Type	Text/Button/Ch is Multiple	Version	Create/Upd	Xpath	WaitTime	283	Personal Information	Date of Birth	Date of Birth	Text	N	1	Both	//*[@id='dateOfBirth']	3	284	Personal Information	First Name	First Name	Text	N	1	Both	//*[@id='firstName']	3	285	Personal Information	First Name Person 1	First Name Person 1	Text	N	1	Both	//*[@id='firstName']	3	286	Personal Information	Last Name	Last Name	Text	N	1	Both	//*[@id='lastName']	3	287	Personal Information	Last Name Person 1	Last Name Person 1	Text	N	1	Both	//*[@id='lastName']	3
1	ScreenName	Label	FieldName	Type	Text/Button/Ch is Multiple	Version	Create/Upd	Xpath	WaitTime																																																				
283	Personal Information	Date of Birth	Date of Birth	Text	N	1	Both	//*[@id='dateOfBirth']	3																																																				
284	Personal Information	First Name	First Name	Text	N	1	Both	//*[@id='firstName']	3																																																				
285	Personal Information	First Name Person 1	First Name Person 1	Text	N	1	Both	//*[@id='firstName']	3																																																				
286	Personal Information	Last Name	Last Name	Text	N	1	Both	//*[@id='lastName']	3																																																				
287	Personal Information	Last Name Person 1	Last Name Person 1	Text	N	1	Both	//*[@id='lastName']	3																																																				

<b>Notes</b>	<ul style="list-style-type: none"> <li>The page in context can be overwritten at any point.</li> </ul>
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[More Topics](#)

## How to wait

<b>Description</b>	The wait command direct the test execution to pause for a certain length of time before moving onto the next step. This enables WebDriver to check if one or more web elements are present/visible/enriched/clickable, etc.
<b>Command</b>	<b>Then</b> Wait for " <b>Parameter 1</b> " seconds
<b>Parameters description</b>	<ul style="list-style-type: none"> <li><b>Parameter 1:</b> Is the lenght of time.</li> </ul>
<b>Example(s)</b>	<p><b>Then</b> Wait for "<b>5</b>" seconds</p> <p>This command will pause for 5 seconds before moving next step.</p>
<b>Notes</b>	

[More Topics](#)

# Database Handling

## How to execute queries

### How to execute queries having the application in context

<b>Description</b>	This function executes a query to retrieve information from database. The page should be in context for use this comand.
<b>Command</b>	<b>Then</b> execute " <b>Parameter 1</b> " query
<b>Parameters description</b>	<ul style="list-style-type: none"> <li><b>Parameter 1:</b> Is the name of the query.</li> </ul>
<b>Example (s)</b>	<p><b>Then</b> execute "<b>MM_Rescind_Scenario4</b>" query</p> <p>This command will execute the query called defined in queries.json file located in config folder, if we are in the ABMS flow, alias will execute the query connecting to ABMS database, that means that the application is in context.</p> <pre> 1={ 2="queryList":{ 3  "RIDP_Primary_Final_Decision":"Select RESPONSE_CODE,RESPONSE_CODE_DESCRIPTION,DECISION_CODE from identity_response where IDENTITY_REQUEST_ID=(Sele 4  "query2":"select * from tab", 5  "QHP_REF_FLAG_INDICATOR01":"Select QHP_REF_IND from PGH_PERS_DETL where ROWNUM &lt; = 1 order by UPDATED_ON desc;", 6  "QHP_REF_FLAG_INDICATOR02":"Select QHP_REF_IND from EDBC_PERS where ROWNUM &lt; = 1 order by UPDATED_ON desc;", 7  "MM_Rescind_Scenario4":"Select p.id pgm_id, p.pgm_code, pers_app_event_id, pers.first_name, pers.last_name, null as pgm_app_event_id, e.event_id, 0 </pre>
<b>Notes</b>	<ul style="list-style-type: none"> <li>For this functionality, we need to define the query to execute in a config file in which all the queries will be defined with a unique name.</li> <li>To use this command, the application should be in context (ABMS, SSP,OSB) to execute the query.</li> </ul>

### How to execute queries for specific application

<b>Description</b>	This function executes a query to retrieve information from database for specific application, in this case the application context does not matter.
<b>Command</b>	<b>Then</b> execute " <b>Parameter 1</b> " query on " <b>Parameter 2</b> " app

<b>Parameter s description</b>	<ul style="list-style-type: none"> <li>• <b>Parameter 1:</b> Is the name of the query.</li> <li>• <b>Parameter 2:</b> Is the application name.</li> </ul>
<b>Example (s)</b>	<p><b>Then</b> execute <b>"MM_Rescind_Scenario41"</b> query on <b>"ABMS"</b> app</p> <p>This command will execute the query called <b>MM_Rescind_Scenario41</b> defined in queries.json file located in config folder, if we are in the SSP flow, but we need a value located in ABMS database, we use this command specifying the application to get the desired value.</p> <pre> queries.json ::  D GeneralFunctions.java 1={ 2="queryList":{ 3  "RIDP Primary Final Decision": "Select RESPONSE_CODE,RESPONSE_CODE_DESCRIPTION,DECISION_CODE from identity_response where IDENTITY_REQUEST_ID=(Sele 4  "query2": "select * from tab", 5  "QHP_REF_FLAG_INDICATOR01": "Select QHP_REF_IND from PGM_PERS_DETL where ROWNUM &lt; = 1 order by UPDATED_ON desc;", 6  "QHP_REF_FLAG_INDICATOR02": "Select QHP_REF_IND from EDBC_PERS where ROWNUM &lt; = 1 order by UPDATED_ON desc;", 7  "MM_Rescind_Scenario4": "Select p.id pgm_id, p.pgm_code, pers_app_event_id, pers.first_name, pers.last_name, null as pgm_app_event_id, e.event_id, 0 </pre>
<b>Notes</b>	<ul style="list-style-type: none"> <li>• For this functionality, we need to define the query to execute in a config file in which all the queries will be defined with a unique name.</li> <li>• To use this command, it's not necessary to be in app context to get the desired value.</li> </ul>

#### More Topics

How to refer a specific column from query results	
<b>Description</b>	This function will refer a specific column of query result and then will save it in specific variable.
<b>Command</b>	<b>Then</b> refer <b>"Parameter 1"</b> from query results for <b>"Parameter 2"</b> data
<b>Parameters description</b>	<ul style="list-style-type: none"> <li>• <b>Parameter 1:</b> Is the name of the column of the query executed previously.</li> <li>• <b>Parameter 2:</b> Is the name of the variable in which parametr 1 value will be stored.</li> </ul>
<b>Example(s)</b>	<p><b>Then</b> execute <b>"QHP_REF_FLAG_INDICATOR01"</b> query</p> <p><b>Then</b> refer <b>"QHP_REF_IND"</b> from query results for <b>"QHP_ID"</b> data</p> <pre> queries.json ::  D GeneralFunctions.java 1={ 2="queryList":{ 3  "RIDP Primary Final Decision": "Select RESPONSE_CODE,RESPONSE_CODE_DESCRIPTION,DECISION_CODE from identity_response where IDENTITY_REQUEST_ID=(Sele 4  "query2": "select * from tab", 5  "QHP_REF_FLAG_INDICATOR01": "Select QHP_REF_IND from PGM_PERS_DETL where ROWNUM &lt; = 1 order by UPDATED_ON desc;", 6  "QHP_REF_FLAG_INDICATOR02": "Select QHP_REF_IND from EDBC_PERS where ROWNUM &lt; = 1 order by UPDATED_ON desc;", 7  "MM_Rescind_Scenario4": "Select p.id pgm_id, p.pgm_code, pers_app_event_id, pers.first_name, pers.last_name, null as pgm_app_event_id, e.event_id, 0 </pre> <p>For this case, the engine will get the QHP_REF_IND value and then will pass that value to a QHP_ID variable for future reference.</p>
<b>Notes</b>	To use this command, it's necessary to execute the query first, to refer the desired column of the query.

#### More Topics

How to verify/validate data from query results	
<b>Description</b>	This function validates the information retrieved from database against expected data.
<b>Command</b>	<b>Then Verify/Validate</b> <b>"Parameter 1"</b> data = <b>"Parameter 2"</b> from query results

<b>Parameters description</b>	<ul style="list-style-type: none"> <li>• <b>Parameter 1:</b> Is the name of the field expected defined in datasource.</li> <li>• <b>Parameter 2:</b> Is the name of the database field retrieved.</li> </ul>												
<b>Example(s)</b>	<p><b>Then</b> Validate "<b>SSN</b>" data = "<b>SSN_id</b>" from query results</p> <p><b>Then</b> Verify "<b>SSN</b>" data = "<b>SSN_id</b>" from query results</p> <p>Query: Select <b>SSN_id</b> from ABMS_table</p> <p>Datasource:</p> <table border="1"> <thead> <tr> <th></th> <th>A</th> <th>B</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>140</td> <td>ABMS Database Results</td> <td></td> <td></td> </tr> <tr> <td>141</td> <td>SSN</td> <td>ABMS Database</td> <td>12345678</td> </tr> </tbody> </table> <p>For this case, the engine will compare the data defined in datasource against the database column. If the data validation is not the same, the engine will throw an error message indicating the current values.</p>		A	B	C	140	ABMS Database Results			141	SSN	ABMS Database	12345678
	A	B	C										
140	ABMS Database Results												
141	SSN	ABMS Database	12345678										
<b>Notes</b>													

[More Topics](#)

## Webservices

How to execute and validate webservises	
<b>Description</b>	This function executes a webservises.
<b>Command</b>	<p><b>Then (Trigger Execute)</b> webservice "<b>Parameter 1</b>" using template "<b>Parameter 2</b>" and data from dataset "<b>Parameter 3</b>"</p> <p>In this case, we can use Trigger or execute.</p>
<b>Parameters description</b>	<ul style="list-style-type: none"> <li>• <b>Parameter 1:</b> Is the identifier name of the webservice defined in webService.json file.</li> </ul>
<b>Example(s)</b>	<p>1) First, we need to define the datasource in which the engine will take the data.</p> <p><b>Then</b> define the data source for "<b>GetCaseDetailsService Data</b>" as file "<b>WebServicesData/WebServicesData.xlsx</b>" with spreadsheet "<b>GetCaseDetailsService</b>" and column 1</p> <p>2) After data source is set, we execute the webservice using a XML template defined in sourcedata folder and using the data defined in step 1. Basically, takes the data from excel sheet and loads the request template with these values.</p> <p><b>Then Execute</b> webservice "<b>GetCaseDetailsService</b>" using template "<b>XML request</b>" and data from dataset "<b>GetCaseDetailsService Data</b>"</p> <p>3) Capture the value of variables to be used to load the request template. On Capture statement for one variable.</p> <p><b>Then</b> Capture "<b>Variable 1</b>" data into "<b>Variable list</b>" webservice request variable list</p> <p>4) Takes data from variables and loads the request template with these values.</p> <p><b>Then</b> Execute "<b>VerifyLawfulPresenceService</b>" data into "<b>Variable list</b>" webservice request variable list</p> <p>5) Compares if the data from webservice is equal to a string or variable</p> <p><b>Then</b> Verify if the "<b>ResponseCode</b>" from webservice response equals "<b>HX009000</b>"</p> <p><b>Then</b> Verify if the "<b>ResponseCode</b>" from webservice response equals "<b>Response Code</b>" variable</p>
<b>Notes</b>	

[More Topics](#)

