

1 TestArchitect Explore Tree

TestArchitect Explorer Tree shows all open repositories, their respective projects, and all the items within each project.

7 Test Module

A worksheet containing test requirements and test cases which narrowly define the scope. Test modules should be designed to run independently from each other, while the test cases within a test module can have dependencies among themselves.

3 Defined-Action

User-defined actions are actions that you create in TestArchitect's Action Based Testing language, and consist of sequences of actions that typically relate to a single business logic function in the application under test. 4 Built-In Action

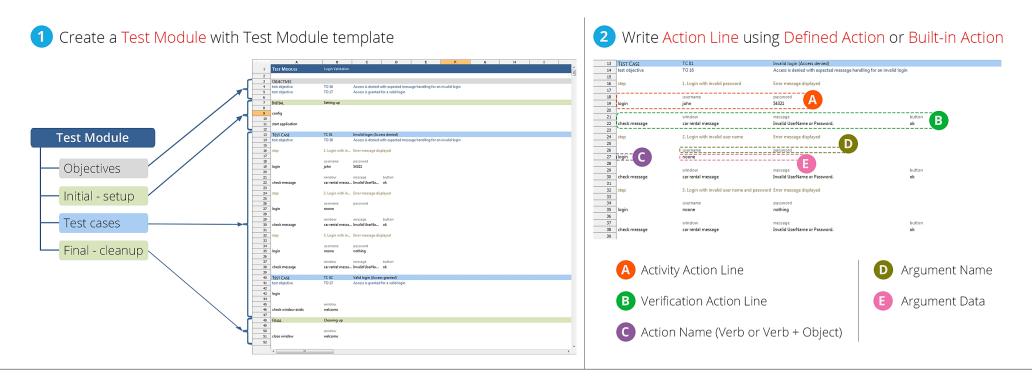
TestArchitect includes a library of built-in actions to perform a myriad of functions. There are three categories of built-in actions: System actions, Test Support actions and User Interface actions

5 Interface Entity

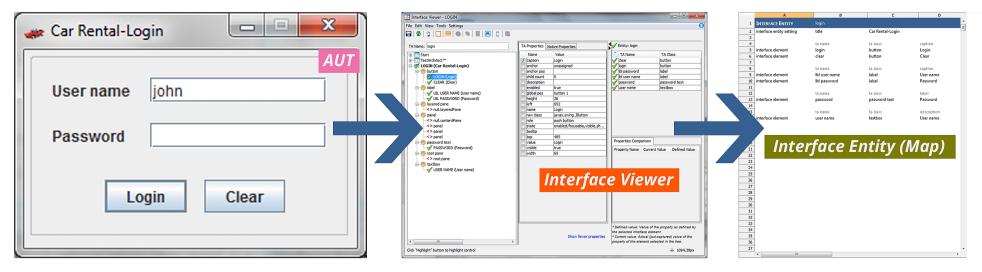
A TestArchitect project item used to represent a single dialog box, window, or full-screen item of the AUT's GUI interface. An interface entity appears in the TestArchitect explorer tree as a child of an interface.

6 AUT

The application that is being tested for correct operation.



Action references Interface Entity (Map) to communicate with UI of **AUT**Use the Interface Viewer tool to capture AUT UI information and store it in Interface Entity (Map)



Variables

There are two types of variables in TestArchitect: global variable and local variable.

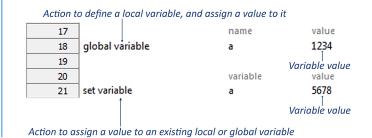
Local variables are variables that are declared within a specific section of test modules or actions. They are initiated within a limited scope, and can only be seen in a particular section.

Action to define a local variable, and assign a value to it

17		name	value
18	local variable	b	999
19			 Variable value
20		variable	value
21	set variable	b	888
	Î		Variable value

Action to assign a value to an existing local or global variable

Global variables are variables with global scope. They can be accessed throughout all test modules and invoked actions within one execution run.

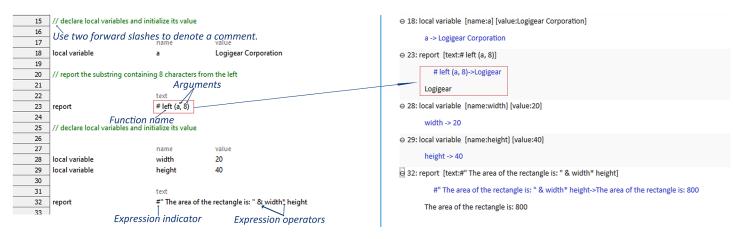


Expressions & Functions

An expression (prefixed by an expression indicator #) is any combination of literal values, variables, operators, operands and functions that follows a set of rules, and which needs to be evaluated before it can be used.

A Function: A predefined, named formula that performs a specific opeartion and returns values needed by your test.

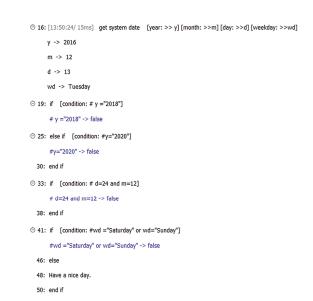
 $\textbf{More information:}\ test architect. logige ar. com/online help/\#TA_Automation/Topics/The_test_language_functions. html$



Conditional actions

Begin a block of action lines which are executed only if a specified condition is satisfied.

15	1	year	month	day	weekday
16	get system date	>> y	>>m	>>d	>>wd
17	1 '	•			
18		condition			
19	if	# y = "2018"			
20					
21		text			
22	report	The FIFA World	Cup 2018 will be he	ld in Russia	
23					
24		condition			
25	else if	=y="2020"			
26					
27		text			
28	report	The UEFA Euro 2	020 will be held in	thirteen cities in thi	teen different European countries during the summer of 2020.
29					
30	end if				
31					
32		condition			
33	if	# d=24 and m=1	12		
34					
35		text			
36	report	Merry Christmas	i.		
37					
38	end if				
39					
40	ł.,	condition			
41	if	≠wd ="Saturday	" or wd="Sunday"		
42	-				
43	-	text			
44	report	Happy weekend			
45	٠.				
46	else				
47		text			
48	report	Have a nice day.			
49	·				
50	end if				



Loop actions

A loop is a statement, or set of statements, that are repeated for a specified number of times or until some condition is met

while / end while

Denotes the beginning of a **while/end while** loop. Evaluates a conditional expression to determine whether execution is to continue with the action lines directly below it, or with the lines following the matching **end while**.

15	1	name	value
16	local variable	temp count	1
17			
18		condition to run	
19	while	#temp count < 3	
20			
21		text	
22	report	#temp count	
23			
24		variable	value
25	set variable	temp count	#temp count + 1
26			
27			
28	end while		
29			

Loop actions

Repeat / until

Denotes the beginning of a repeat/until loop.

15		name	value
16	local variable	temp count	1
17			
18	repeat		
19			
20		text	
21	report	#temp count	
22			
23		variable	value
24	set variable	temp count	# temp count + 1
25			
26		condition to stop	
27	until	#temp count = 3	
28			



Operators

Comparison

Symbol	Operation	Priority
=	equal to	4
<>,⊨	not equal to	4
>	greater than	4
>=	greater than or equal to	4
<	less than	4
=<	less than or equal to	4

Symbo	l Operation	Priority
not	Value is TRUE if its operand is FALSE	5
and	Value is TRUE if and only if both sides of the and operator are TRUE	E 6
or	Value is TRUE if either side of the or operator is TRUE	7

Logical

Settings

Settings are used to steer the automation process. They control how your action lines are handled by the TestArchitect interpreter or automation.

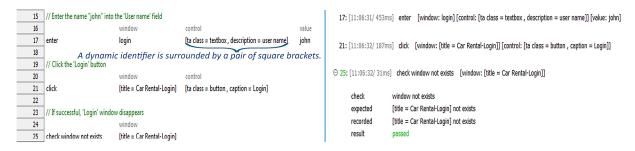
More information: testarchitect.logigear.com/onlinehelp/#TA_Automation/Topics/bia_setting.html

7	INITIAL	Setting up	
8			
9	// set the maximum wait time for	a control or HTML eleme	ent to become available or, depending upon the action involved, unavailable.
10			
11		setting	value
12	setting	object wait	30
13			

Dynamic identifiers

A value for a window/control argument which, instead of using a TA name, directly identifies a UI element through its TA class and TA property values.

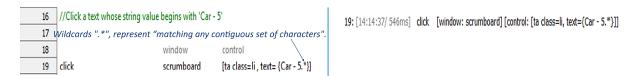
More Information: testarchitect.logigear.com/onlinehelp/#TA_Help/Topics/The_test_language_dynamic_identifiers.html



Wildcards

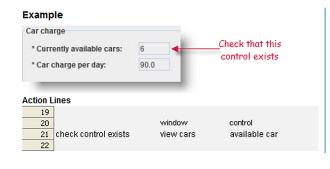
A specific regular expression pattern that can be used to substitute for any other character or characters in a string, allowing for flexibility in pattern matching.

More Information: testarchitect.logigear.com/onlinehelp/#TA_Tutorials/Topics/Wildcards.html



Checks

Any point in a test procedure in which any type of check action exists, check actions are the only actions that register pass/fail results.



⊖ 21: check contr	ol exists [view cars] [available car]
check	control
expected	available car
recorded	control found
result	passed

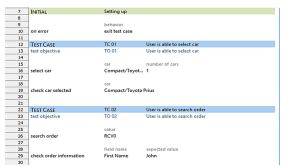
Error handling & recovery

TestArchitect provides a number of mechanisms to support error handling and recovery to allow for tests to continue to run after encountering unanticipated errors, warnings or test failures.

on error

Specify the execution path to take in the event of an error.

For example, in the event of an error, you would like TestArchitect to abandon the current test case and continue with the next test case in the same test module, specify the 'exit test case' argument in the test procedure.





on error action

Specify the action to be invoked in the event of an error.

As an example, the following is a simple error handler that, when called, merely captures the screen at the time of the error, saving it to a designated jpg file





Error handling & recovery

on failure action

Specify the action to be invoked in the event of a check failure from any check-type action.

The following example, when called, captures the screen in the event of a check failure, saving it to a jpg file

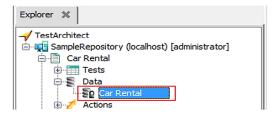




Data set

A Data set is a collection of data. It contains rows of values that can be retrieved by an automated test and acted on sequentially.

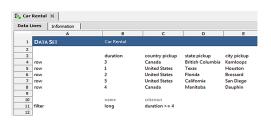
Data sets are stored in the Data subtree of the TestArchitect explorer tree, and can be organized into folders and subfolders.



Sample test script:



 ${\bf A}$ ${\bf data}$ ${\bf set}$ worksheet typically resembles the following.



Sample test result

Sample test result:
⊕ 18: use data set
21: San Diego
① 23: repeat for data set
21: Dauphin
○ 23: repeat for data set
end of cycle
\oplus 28: use data set [name: /Car Rental] [filter: duration >= 4]
31: San Diego
① 33: repeat for data set
31: Dauphin
○ 33: repeat for data set
end of cycle