Assert Functions

Assert functions check a condition and record the result in the playback log. When the condition is false the step is reported as a failure, and what happens next depends on the assert type in effect: by default the script stops at that step (see Verify Functions for `setAssertType` and the `Fail` / `FailAtEnd` / `Warning` behaviours).

API summary

API	Parameters	Fails when
`assertExists(accessor)`	accessor	the element is not on the page
`assertNotExists(accessor)`	accessor	the element is on the page
`assertTrue(value)`	value	the value evaluates to false
`assertFalse(value)`	value	the value evaluates to true
`assertNull(value)`	value	the value is not null
`assertNotNull(value)`	value	the value is null
`assertEqual / assertEquals(A, B)`	A, B	the two values are not equal
`assertNotEqual / assertNotEquals(A, B)`	A, B	the two values are equal
`assertGreaterThan(first, second)`	first, second	first is not greater than second
`assertLessThan(first, second)`	first, second	first is not lesser than second
`assertGreaterOrEqual(first, second)`	first, second	first is not greater than or equal to second
`assertLessOrEqual(first, second)`	first, second	first is not lesser than or equal to second
`assertRange(number, min, max)`	number, min, max	the number is outside the range
`assertContains(fullText, snippet)`	fullText, snippet	fullText does not contain snippet
`assertDoesNotContain(fullText, snippet)`	fullText, snippet	fullText contains snippet
`assertContainsText(accessor, text)`	accessor, expected text or regular expression	the element text does not contain the expected value
`assertDoesNotContainText(accessor, text)`	accessor, expected text or regular expression	the element text contains the expected value

API	Parameters	Fails when
`assertTextPresent(accessor, text)`	accessor, expected text	the expected text is not present
`assertTextNotPresent(accessor, text)`	accessor, expected text	the expected text is present
`assertSelectHasOption(accessor, option)`	accessor, option	the select has no such option
`assertSelectMissingOption(accessor, option)`	accessor, option	the select has that option

> **Never use an assert inside an `if` condition.** Assert APIs return no value and throw an exception when they fail, so the branch cannot be evaluated. To decide a branch, use a value-returning API such as `getText`, `getValue`, `getAttribute`, `getBrowserURL` or `isVisible`, or switch to the verify equivalent.

Detailed reference and examples

The sections below list each assert API with its aliases, its description and a working example. The underscored form and the plain form are interchangeable — both are accepted in a script.

_assertExists = assertExists

Description:
Asset Exists will log the step in the playback logs when the element exists, it will log as a failure if the element does not exist.
Note: Do not use this in an if condition as it does not return any value, and throws an exception if the assertion fails.

Example:

```
navigateTo("http://demosite.appvance.com/");
wait(1000);
focus(span("Products[1]"));
assertExists(span("Products[1]"));
```

_assertNotExists

Parameters: value
Description:
Assert Not Exists will log failures in the logs if the element does exist on the page. This assertion is to check if certain elements that we are looking for does not exist on the page.
Note: Do not use this in an if condition as it does not return any value, and throws an exception if the assertion fails.

Example:

> `navigateTo("`http://demosite.appvance.com/`");`
> `wait(1000);`
> `assertNotExists(span("Products[1]"));`
> `click(link("Clothing"));`

_assertTrue = assertTrue

Parameters: value
Description: Assert True will log failures in the logs if the condition evaluates to false.
Example:

> `navigateTo("`http://sahitest.com/demo/training/login.htm`");`
> `var val2=_isVisible(_bold("Sahi Training Site"));`
> `assertTrue(val2);`

_assertFalse = assertFalse

Parameters: value
Description:
Assert False will log failures in the logs if the condition evaluates to true.
Note: Do not use this in an if condition as it does not return any value, and throws an exception if the assertion fails.

Example:

> `navigateTo("`http://sahitest.com/demo/training/login.htm`");`
> `var val1=_getText(_bold("Sahi Training Site"));`
> `assertDoesNotContainText(log(val1);`

```
assertEqual(val1,"Sahi Training Site");
assertNotEqual(val1,"abc");
assertFalse("abc");
var val2=_isVisible(_bold("Sahi Training Site"));
assertTrue(val2);
```

_assertNull = assertNull

Parameters: value
Description:
Assert Null will log failures to the logs if the value is not null and will continue to playback if the value is null.
Note: Do not use this in an if condition as it does not return any value, and throws an exception if the assertion fails.

Example:

```
navigateTo("http://sahitest.com/demo/training/login.htm");
assertExists(bold("Sahi Training Site"));
assertNull(null);
```

_assertNotNull = assertNotNull

Parameters: value
Description:
Assert Not Null will log failure in the logs if the value is null.
Note: Do not use this in an if condition as it does not return any value, and throws an exception if the assertion fails.

Example:

```
navigateTo("http://sahitest.com/demo/training/login.htm");
assertExists(bold("Sahi Training Site"));
assertNotNull("Sahi Training Site");
```

_assertEqual = assertEqual = _assertEquals = assertEquals

Parameters: value1, value2
Description:
Assert Equal checks if the expected value is equal to the Actual value.
AssertEqual will log failures to the playback logs if the expected and actual values are not equal. It logs the step when the assertion passes in the logs section.
Note: Do not use this in an if condition as it does not return any value, and throws an exception if the assertion fails.

Example:

> `navigateTo("` http://demosite.appvance.com/ `");`
> `click(span("Products[1]"));`
> `assertEqual(span("Home[1]"),"Home");`
> `click(link("Clothing"));`

_assertNotEqual = assertNotEqual

Parameters: value1, value2
Description:
As the name suggests, Assert not equal expects the string to be not equal and logs failures in the playback logs when the Expected string matches with the actual string.
Note: Do not use this in an if condition as it does not return any value, and throws an exception if the assertion fails.

Example:

> `navigateTo("` http://demosite.appvance.com/ `");`
> `click(span("Products[1]"));`
> `assertNotEqual(span("Home[1]"),"Home");`
> `click(link("Clothing"));`

_assertContainsText = assertContainsText

Parameters: fullText, element
Description:
As the name suggests, assert contains text checks for a string in the target element and logs success or failure.
It will log the step details if the assertion passes else it logs as a failure if the expected string or reg-ex is not part of the text content of a given element with a proper explanation and stops the script playback.
Note: Do not use this in an if condition as it does not return any value, and throws an exception if the assertion fails.

Example:

> `navigateTo("` http://demosite.appvance.com/ `");`
> `click(span("Products[1]"));`
> `assertContainsText("Home",span("Home[1]"));`
> `click(link("Clothing"));`

_assertDoesNotContainText = assertDoesNotContainText

Parameters: fullText, element
Description: assertContainsText will do nothing if the expected string/regex is not part of the text content of given element _assertContainsText will log failures to the playback logs if the expected string/regex is part of the text content of given element
Example:

> `navigateTo("` http://demosite.appvance.com/ `");`
> `click(span("Products[1]"));`
> `assertDoesNotContainText(click(link("Clothing"));`

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