

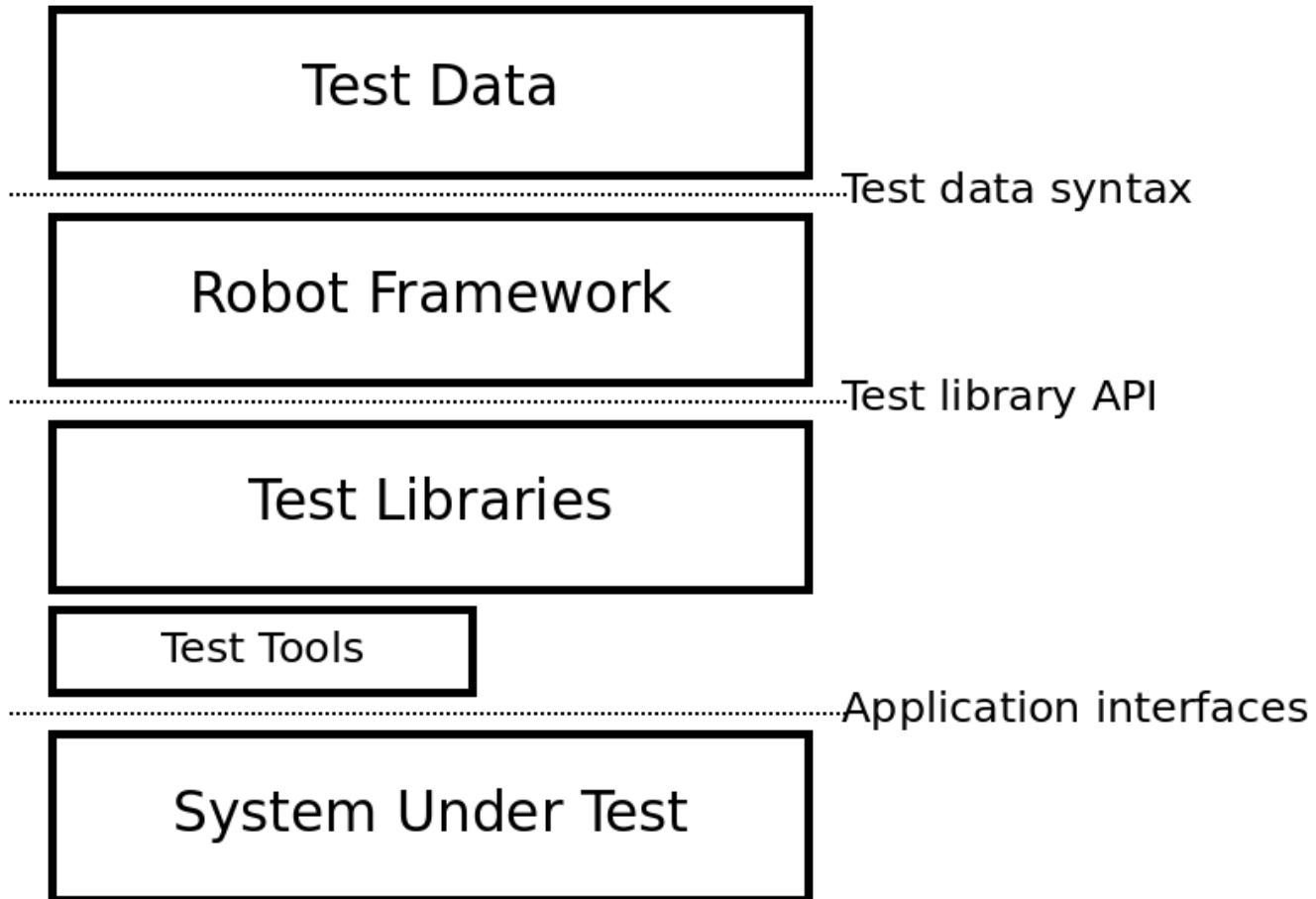
Robot



Robot Framework



Суть



Установка

```
pip install robotframework
```



Начинка

```
Dialogs.py x
58
59 def execute_manual_step(message, default_error=''):
60     """Pauses test execution until user sets the keyword status.
61
62     User can select 'PASS' or 'FAIL', and in the latter case an additional
63     dialog is opened for defining the error message.
64
65     `message` is the instruction shown in the initial dialog and
66     `default_error` is the default value shown in the possible error message
67     dialog.
68     """
69     if not PassFailDialog(message).show():
70         msg = get_value_from_user('Give error message:', default_error)
71         raise AssertionError(msg)
72
73
74 def get_value_from_user(message, default_value=''):
75     """Pauses test execution and asks user to input a value.
76     Input value is returned by the keyword.
77
78     `message` is the instruction shown in the dialog and `default_value` is
79     the possible default value shown in the input field. Selecting 'Cancel'
80     fails the keyword.
81
82     Example:
83     | ${value} = | Get Value From User | Enter new value | default_value=1 |
84     | Do something | ${value} |
85     """
86     return _validate_user_input(InputDialog(message, default_value))
87
88
89 def get_selection_from_user(message, *values):
90     """Pauses test execution and asks user to select a value.
91
92     `message` is the instruction shown in the dialog and `values` are
93     the options given to the user. Selecting 'Cancel' fails the keyword.
94     """
95     return _validate_user_input(SelectionDialog(message, values))
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97
98 def _validate_user_input(dialog):
99     value = dialog.show()
100     if value is None:
101         raise RuntimeError('No value provided by user.')
102     return value
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```

Селениум

```
58
59 def page_should_contain(self, text, loglevel='INFO'):
60     """Verifies that current page contains `text`.
61
62     If this keyword fails, it automatically logs the page source
63     using the log level specified with the optional `loglevel` argument.
64     Giving `NONE` as level disables logging.
65     """
66     if not self._page_contains(text):
67         self.log_source(loglevel)
68         raise AssertionError("Page should have contained text '%s' "
69                             "but did not" % text)
70     self._info("Current page contains text '%s'." % text)
71
72 def page_should_contain_element(self, locator, message='', loglevel='INFO'):
73     """Verifies element identified by `locator` is found on the current page.
74
75     `message` can be used to override default error message.
76
77     See `Page Should Contain` for explanation about `loglevel` argument.
78
79     Key attributes for arbitrary elements are `id` and `name`. See
80     `introduction` for details about locating elements.
81     """
82     self._page_should_contain_element(locator, None, message, loglevel)
83
84 def page_should_not_contain(self, text, loglevel='INFO'):
85     """Verifies the current page does not contain `text`.
86
87     See `Page Should Contain` for explanation about `loglevel` argument.
88     """
89     if self._page_contains(text):
90         self.log_source(loglevel)
91         raise AssertionError("Page should not have contained text '%s'" % text)
92     self._info("Current page does not contain text '%s'." % text)
93
94 def page_should_not_contain_element(self, locator, message='', loglevel='INFO'):
95     """Verifies element identified by `locator` is not found on the current page.
96
97     `message` can be used to override the default error message.
98
99     See `Page Should Contain` for explanation about `loglevel` argument.
100
101     Key attributes for arbitrary elements are `id` and `name`. See
102     `introduction` for details about locating elements.
103     """
104     self._page_should_not_contain_element(locator, None, message, loglevel)
105
106 # Public, attributes
```

```
211
212 def get_horizontal_position(self, locator):
213     """Returns horizontal position of element identified by `locator`.
214
215     The position is returned in pixels off the left side of the page,
216     as an integer. Fails if a matching element is not found.
217
218     See also `Get Vertical Position`.
219     """
220     element = self._element_find(locator, True, False)
221     if element is None:
222         raise AssertionError("Could not determine position for '%s'" % (locator))
223     return element.location['x']
224
225 def get_value(self, locator):
226     """Returns the value attribute of element identified by `locator`.
227
228     See `introduction` for details about locating elements.
229     """
230     return self._get_value(locator)
231
232 def get_text(self, locator):
233     """Returns the text value of element identified by `locator`.
234
235     See `introduction` for details about locating elements.
236     """
237     return self._get_text(locator)
238
239 def get_vertical_position(self, locator):
240     """Returns vertical position of element identified by `locator`.
241
242     The position is returned in pixels off the top of the page,
243     as an integer. Fails if a matching element is not found.
244
245     See also `Get Horizontal Position`.
246     """
247     element = self._element_find(locator, True, False)
248     if element is None:
249         raise AssertionError("Could not determine position for '%s'" % (locator))
250     return element.location['y']
251
252 # Public, mouse input/events
253
254 def click_element(self, locator):
255     """Click element identified by `locator`.
256
257     Key attributes for arbitrary elements are `id` and `name`. See
258     `introduction` for details about locating elements.
259     """
```



RIDE (Keyword)

Log In

Settings <<

Documentation

Arguments: `${username} | ${password}`

Teardown

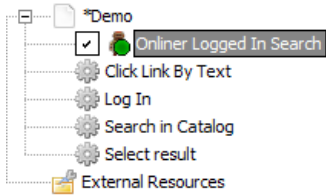
Timeout

Return Value

| | | | |
|---|---------------------------|----------|-----------------------------|
| 1 | Click Link By Text | Войти | |
| 2 | Input Text | username | <code> \${username} </code> |
| 3 | Input Password | password | <code> \${password} </code> |
| 4 | Click Login Button | | |



RIDE(Autocomplete)



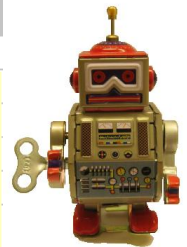
| | | | | |
|---|----------------------------------|------------|----------------|--|
| 1 | Log In | robot.demo | robotframework | |
| 2 | Search in Catalog | robot | | |
| 3 | Select result | 4 | | |
| 4 | Page | | | |
| 5 | Page Should Contain | | | |
| 6 | Page Should Contain Button | | | |
| 7 | Page Should Contain Checkbox | | | |
| 8 | Page Should Contain Element | | | |
| | Page Should Contain Image | | | |
| | Page Should Contain Link | | | |
| | Page Should Contain List | | | |
| | Page Should Contain Radio Button | | | |
| | Page Should Contain Textfield | | | |
| | Page Should Not Contain | | | |
| | Page Should Not Contain Button | | | |

Page Should Contain

Name: Page Should Contain
Source: Selenium2Library <test library>
Arguments: [text | loglevel=INFO]

Verifies that current page contains `text` .

If this keyword fails, it automatically logs the page source using the log level specified with the optional `loglevel` argument. Giving `NONE` as level disables logging.



Написал!

TC001

Settings <<

Documentation

TC001 - Log each CD with price lower than 6

This is noncritical tc example with simple keyword flow

Setup

Teardown

Timeout

Template

Tags

New Feature Simple Flow <Add New>

| | | | | | |
|---|-------------|----------------|-------------------|-------------|----------|
| 1 | `\${xml}` | Parse Xml | cd_catalog.xml | | |
| 2 | @{elements} | Get Elements | `\${xml}` | ./CD | |
| 3 | : FOR | `\${CD}` | IN | @{elements} | |
| 4 | | `\${price}` | Get Element Text | `\${CD}` | ./PRICE |
| 5 | | `\${price}` | Convert To Number | `\${price}` | |
| 6 | | Run Keyword If | `\${price}<6 | Log Element | `\${CD}` |



Завернул!

Get first cd with price lower than \${price limit}

Settings <<

Documentation

Arguments

Teardown

Timeout

Return Value

| | | | | | |
|---|-------------|----------------|-----------------------------|---------------|---------|
| 1 | \${xml} | Parse Xml | cd_catalog.xml | | |
| 2 | @{elements} | Get Elements | \${xml} | ./CD | |
| 3 | : FOR | \${CD} | IN | @{elements} | |
| 4 | | \${price} | Get Element Text | \${CD} | ./PRICE |
| 5 | | \${price} | Convert To Number | \${price} | |
| 6 | | Run Keyword If | \${price} < \${price limit} | Exit For Loop | |
| 7 | Log Element | \${CD} | | | |



Заюзал!

TC002

Settings <<

Documentation

TC002 - Log first CD with price lower than 9

This is simple tc example with BDT keyword used for logical block

Setup

Teardown

Timeout

Template

Tags

Stable BDT <Add New>

| | |
|---|--------------------------------------|
| 1 | Get first cd with price lower than 9 |
| 2 | |



Не подходит?

Get first cd with price lower than

Settings <<

Documentation

Arguments: `#{price limit}`

Teardown

Timeout

Return Value

| | | | | | |
|---|--------------------------|-----------------------|---|--------------------------|----------------------|
| 1 | <code>#{xml}</code> | Parse Xml | cd_catalog.xml | | |
| 2 | <code>@{elements}</code> | Get Elements | <code>#{xml}</code> | <code>./CD</code> | |
| 3 | : FOR | <code>#{CD}</code> | IN | <code>@{elements}</code> | |
| 4 | | <code>#{price}</code> | Get Element Text | <code>#{CD}</code> | <code>./PRICE</code> |
| 5 | | <code>#{price}</code> | Convert To Number | <code>#{price}</code> | |
| 6 | | Run Keyword If | <code>#{price} < #{price limit}</code> | Exit For Loop | |
| 7 | Log Element | <code>#{CD}</code> | | | |



А если так?

TC003

Settings <<

Documentation

TC003 - Log first CD with price lower than argument

This is critical tc example with DDT approach based on keyword with same functionality as keyword from TC002

Setup

Teardown

Timeout

Template

[Get first cd with price lower than](#)

Tags

Regression DDT <Add New>

| | | | | | |
|---|-----|--|--|--|--|
| 1 | 9.5 | | | | |
| 2 | 12 | | | | |
| 3 | 5 | | | | |
| 4 | 3 | | | | |
| 5 | | | | | |



А ещё

| | |
|------------|-------------------------------------|
| переменные | $\{\text{переменные}\}$ |
| списки | $\@{\text{списки}}$ |
| словари | $\{\text{словари}[\text{'ключ'}]\}$ |

Запуск ещё и через Jython/IronPython



И ещё

Инструменты:

Rebot – инструмент для генерации отчётов.

Libdoc – инструмент для генерации документации по кейвордам.

Testdoc – инструмент для генерации высокоуровневой документации в HTML основываясь на кейсах Robot Framework.

Tidy – инструмент для смены форматирования тестов (html|txt|tsv)



Где маны?

<http://robotframework.googlecode.com/>

<http://robotframework.org/>



А пощупать?

<http://jenkins.gabis.by/>

Login: demo

Password: demo



Спасибо за внимание

