WebAutomation API documentation

Description:

This set of APIs is created based on Selenium WebDriver by Python, but encapsulates original APIs to make it easy to understand and use for QA members. This doc will introduce the functionality of each class and how to use them. The codes are stored on GitHub <https://github.com/cjeric/BaseWebAuto.git> Please feel free to get it.

# API

## Class: Base

### Fields

driver: The Firefox webdriver instance.

base\_url: The site url to be tested

timeout: The seconds waiting for UI

### Methods

Find\_element(\*locator)

Find element by the provided HTML locators. Return a web element

Args: \*locator: A tuple of HTML locators

Find\_elements(\*locator)

Find elements by the provided HTML locators. Return a list of web elements

Args: \*locator: A tuple of HTML locators

Find\_child\_element(webelement, \*locator)

Find element under the specific web element by the provided HTML locators. Return a web element

Args: webelement: a web element instance

\*locator: A tuple of HTML locators

Find\_child\_elements(WebElement, \*locator)

Find elements under the specific web element by the provided HTML locators. Return a list of web elements

Args: webelement: a web element instance

\*locator: A tuple of HTML locators

Open()

Open the browser to access the specific url

On\_page()

Verify the current url in browser is same as the expected one. Return a Boolean value

Script(src)

Run the javascript codes

Args: src: a string of java script codes

Wait\_UI(\*locator)

Wait until the specific UI is visible. Otherwise throw timeout exception

Args: \*locator: A tuple of HTML locators

## Class: LoginPage

### Methods

Login()

Login HJ1 with Administrator

## Class: MenuBar

### Methods

Action\_toggle\_menu()

Extend or collapse the menu tree

Action\_backto\_menu()

Click the Menu menu to return the root of the menu tree

Action\_expand\_app\_group(groupName)

Click the app group menu, such as supply chain advantage, advantage commander

Args: groupName: The application group name

Action\_expand\_menu(menuName, isMenu=True)

Expand the menu to show sub menus. If isMenu is faluse, then open the page instead of expand menu.

Args: menu: The name of the menu item

isMenu: is menu link or page link

action\_collapse\_menu(menu)

Collapse the extended menu

Args: menu: The name of the menu item

## Class: BasePage

### Methods

get\_page\_title()

Return the page title

Wait\_page(page\_title)

Wait the specific page loaded by the provided page title

Args: page\_title: the string of page title

action\_page\_next()

Click the Next navigation button

action\_page\_previous()

Click the Previous navigation button

action\_page\_click\_button(button\_name)

Click the page’s button

Args: button\_name: The name of the button to be clicked

get\_infodialog\_title()

Get the title of the information dialog

get\_infodialog\_header()

Get the header of the message in information dialog

get\_infodialog\_message()

Get the message in information dialog

action\_infodialog\_click\_button(button\_name)

Click the specific button on the information dialog

Args: button\_name: The name of button to be clicked

Get\_errordialog\_message()

Get the message in error dialog

action\_errordialog\_click\_button(button\_name)

Click the specific button on the error dialog

Args: button\_name: The name of button to be clicked

## Class: SearchPage

### Methods

get\_all\_labels\_name(groups\_number=1)

Return a list of all UIs’ name.

Args: groups\_number: The total number of field groups in a page.

action\_checkbox\_check(name, groupIndex=1)

Check or uncheck a check box

Args: name: The name of the check box

groupIndex: The sequence of the field group the checkbox belongs to

action\_edit\_input(name, value, groupIndex=1)

Input text to edit control

Args: name: The name of the edit control

value: The value input to edit control

groupIndex: The sequence of the field group the edit control belongs to

action\_edit\_clear(name, groupIndex=1)

Clear the value in edit control

Args: name: The name of the edit control

groupIndex: The sequence of the field group the edit control belongs to

action\_multiedit\_input(name, value, groupIndex=1)

Input text to multiedit control

Args: name: The name of the multiedit control

value: The value input to multiedit control

groupIndex: The sequence of the field group the multiedit control belongs to

action\_edit\_clear(name, groupIndex=1)

Clear the value in multiedit control

Args: name: The name of the multiedit control

groupIndex: The sequence of the field group the multiedit control belongs to

action\_searchlike\_input(name, value, groupIndex=1, search\_type=’Like’)

select the search type and input values in searchlike control

Args: name: The name of the searchlike control

Value: The value to input searchlike control

groupIndex: The sequence of the field group the searchlike control belongs to

search\_type: The search type, valid values are Like and Exactly. Default is Like

action\_searchlike\_clear(name, groupIndex=1)

Clear values in searchlike textbox

Args: name: The name of the searchlike control

groupIndex: The sequence of the field group the searchlike control belongs to

get\_dropdown\_options(name, groupIndex=1)

Return a list of all option values in a dropdown list

Args: name: The name of the dropdown list

groupIndex: The sequence of the field group the dropdown list belongs to

action\_dropdown\_select(name, value, groupIndex=1)

Select an item in a dropdown list

Args: name: The name of the dropdown list

Value: The item to select

groupIndex: The sequence of the field group the dropdown list belongs to

action\_dropdown\_input(name, value, groupIndex=1)

Select an item by input characters in a dropdown list

Args: name: The name of the dropdown list

Value: The values to input

groupIndex: The sequence of the field group the dropdown list belongs to

action\_listbox\_select(name, value, groupIndex=1)

Select an item in list box

Args: name: The name of the list box

Value: The item to select

groupIndex: The sequence of the field group the list box belongs to

get\_page\_error()

Get the page error message

get\_field\_error()

Return a list of error hints of all fields

## Class: ReportPage

### Methods

Action\_page\_click\_button(button\_name, group=’page-action’)

Click the page button or inline editing button

Args: button\_name: The name of the button

Group: The group the button belongs to. Valid values are page-action and context-action. Default is page-action

get\_headers(detail\_name=None)

Return a list of string of the table’s headers

Args: detail\_name: The name of row detail table. Default value is None, then it returns master table’s headers

get\_values\_by\_row(row, detail\_name=None)

Return a list of values in the specific row in a table

Args: row: The number of row to get values

detail\_name: The name of row detail table. Default value is None, then it returns master table’s headers

action\_cell\_click(row, column, detail\_name=None)

Click the specific cell in a table

Args: row: The number of row the cell belongs to

Column: The number of column the cell belongs to

detail\_name: The name of row detail table. Default value is None, then it returns master table’s headers

get\_rowdetail\_titles()

Return a list of titles of row detail tables

Action\_extend\_rowdetail(detail\_name)

Extend the row details to show values by row detail table name

Args: detail\_name: The name of row detail table.