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.