Katalon Studio Tutorial: Katalon (Web Browser) Automation Recorder

Installation Link For Chrome Browser:
https://chrome.google.com/webstore/detail/katalon-recorder-selenium/ljdobmomdgdljniojadhoplhkpialdid

Katalon Recorder is the Selenium IDE-compatible record & playback tool for browser automation testing. You can use it to record, debug, execute & manage test cases, and export test suites to multiple programming languages such as C#, Java, Ruby, Python, Groovy, Robot Framework, etc.

While Katalon Recorder is already designed to ease the stress of automation testing for everyone, we want to further assist you in the onboarding process with this quick user guide. Continue reading for all essential information, features, and instructions to make the best use of the tool!

Katalon Recorder User Guide

Katalon Recorder main UI contains four sections as follow:

- Main Toolbar
- Test Explorer
- Test Case Details View
- Log/Reference/Variable/Self-healing

1. Main Toolbar

Katalon Recorder's main toolbar contains buttons to help you to manage the web recording process.

Actions sidebar

Open Test Suite	Load a test suite from the filesystem to KR
Sample Projects	Add more than a dozen built-in Sample Projects to get started
Export	Export KR tests to Katalon Studio, Selenium WebDriver, New Relics, App Dynamics
Backup Data	Backup your test suites to TestOps to restore them later
Upload Report	Upload your test executions to TestOps to have analytics, report, and insights

Toolbar
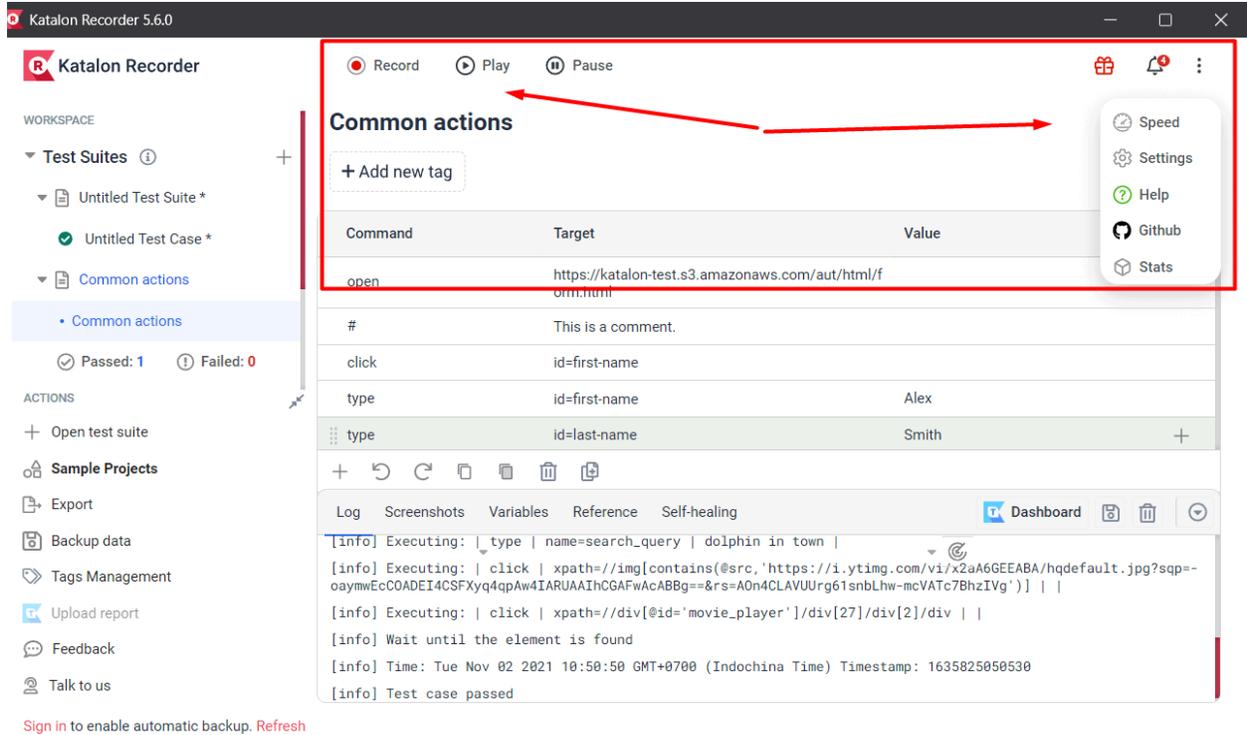
Record	Record your tests
Play	Execute selected single test case
Play Suite	Execute selected test suite
Play All	Execute all test suites
Pause/Resume	Pause and Resume current execution
Stop	Stop recording on the current execution
Report (moved to Action sidebar)	Upload logs to Katalon TestOps to keep track of execution history

Export	Export current test suite/test case to various scripting languages and framework
Speed	Adjust play speed
Setting	Port configuration for Katalon Studio Users. Allow users to change the default port used by Katalon Studio to communicate with the active browser
Help icon	Katalon Recorder Support Resources include: User Manual, Videos, Community, and Free Advanced Automation
Github icon	Go to Github Dashboard
Extended features	Look at your Daily Usage or opt for Essential Product Tours

2. Test Explorer

Test Suites	Show the number of Passed & Failed tests
Dynamic Test Suites	A dynamic test suite lets you execute test cases with certain tags dynamically.
Test Data	CSV and JSON files are fully compatible with Katalon Recorder native commands.

	Click + to add CSV and JSON files to your workspace.
Extension Script	Extend Katalon Recorder's functionality by providing custom commands and locators.
Profiles (Global Variables)	Click + to create a new profile in your workspace Add global variables to your profile Right-click on the profile and choose Use this in a test case
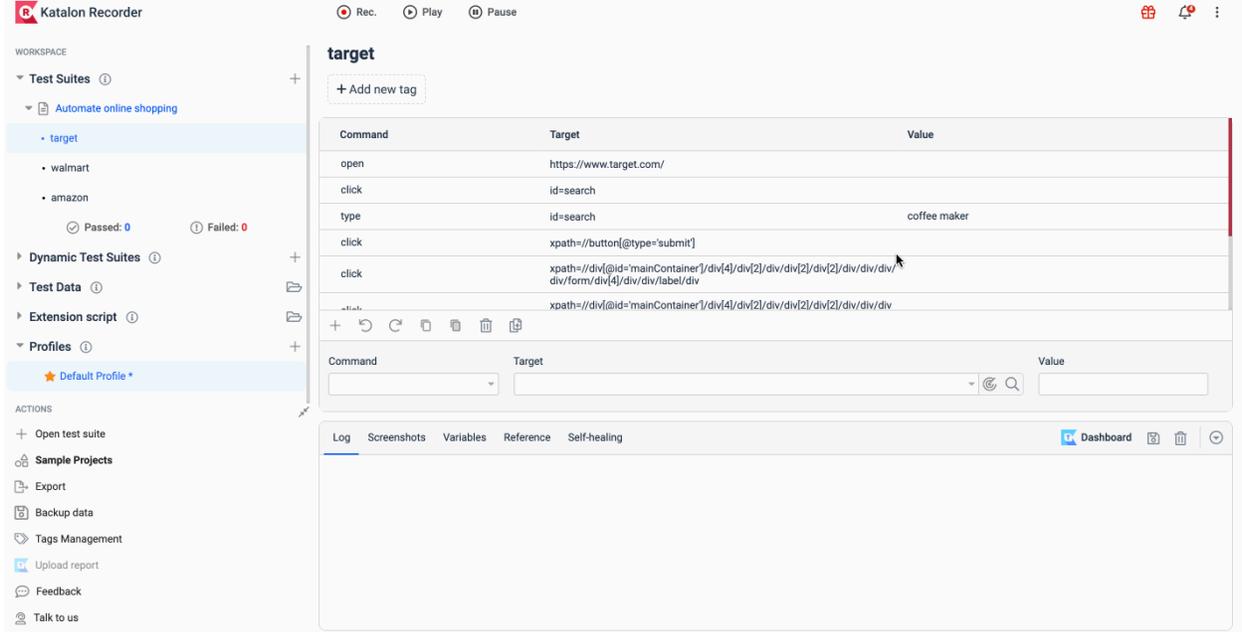
3. Test Case Details View

Katalon Recorder displays the recorded test script in the test case window. All commands and parameters are shown in table format. You can drag and drop any test step to reorganize the test case order

a. Editing Test Case
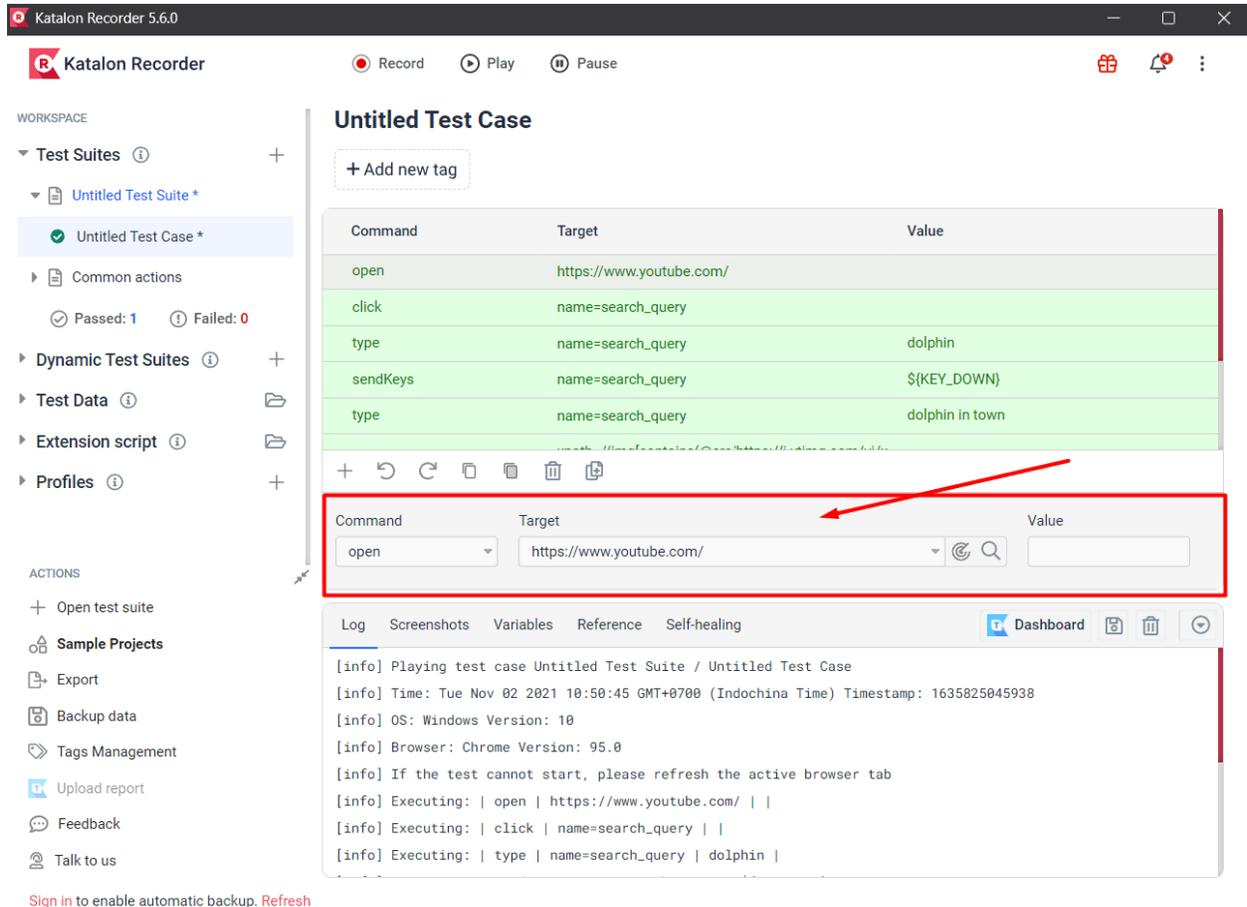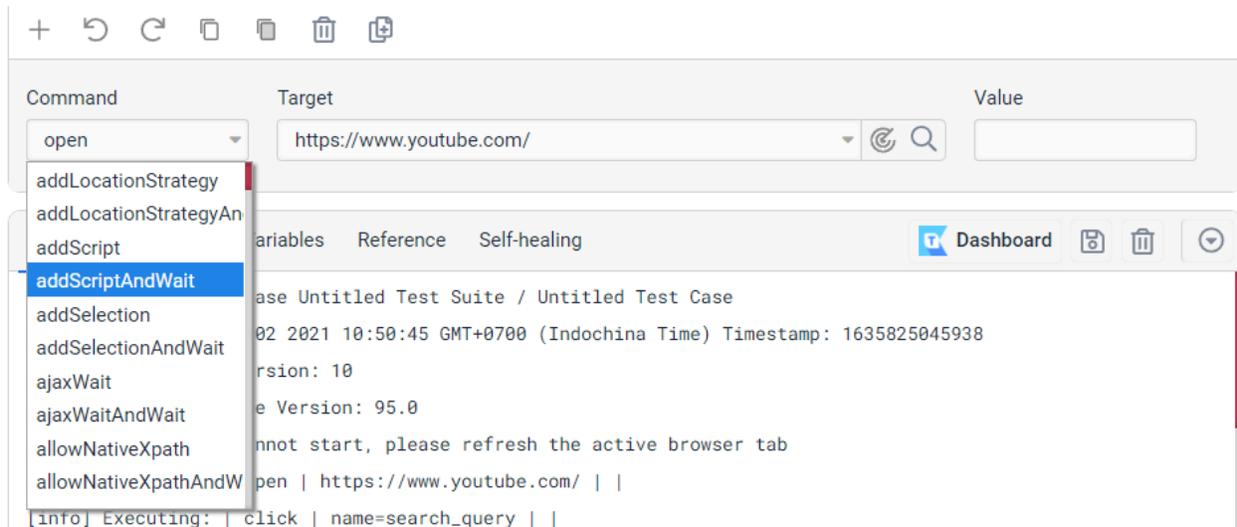
The Command field shows a drop-down menu

In the Command, Target, Value entry fields, you can see the information of the currently selected command, edit the recorded commands, or add new commands in any given step.

The Command field will show a drop-down menu that suggests commands based on the input. Katalon Recorder supports most of the common Selenium commands, including:

- Actions: Commands that reproduce user interaction on the application under test.
- Accessors: Commands are used to store the results in variables.
- Assertions: Commands that verify the application under test behave as expected.

For more details about Selenium commands, refer to this link.

For a more detailed list of support commands, refer to this document.

b. Context Menu

Katalon Recorder

◉ Record ▶ Play ⏸ Pause

WORKSPACE

▾ Test Suites ⓘ

  ▾ 📄 Untitled Test Suite *

    ✅ Untitled Test Case *

  ▸ 📄 Common actions

    ✅ Passed: **1** ⓵ Failed: **0**

▸ Dynamic Test Suites ⓘ

▸ Test Data ⓘ

▸ Extension script ⓘ

▸ Profiles

ACTIONS

  ➕ Open test suite

  🎛 **Sample Projects**

  🖅 Export

  🗒 Backup data

  🏷 Tags Management

  🖼 Upload report

  💬 Feedback

  👤 Talk to us

Sign in to enable automatic backup. Refresh

Untitled Test Case

➕ Add new tag

Command	Target	Value
open	https://www.youtube.com/	
click	name=search_query	
type	name=search_query	dolphin
sendKeys	name=search_query	${KEY_DOWN}
type	name=search_query	dolphin in town

Add Command	Ctrl+I
Delete Command	
Delete All Commands	
Copy Command	Ctrl+C
Paste Command	Ctrl+V
Toggle Breakpoint	Ctrl+B
Play This Command	
Play From Here	

Command
open

Target
https://www.youtube.com/

Log Screenshots Variables Reference Self-healing 🗠 Dashboard

[info] Playing test case Untitled Test Suite / Untitled Test Case
[info] Time: Tue Nov 02 2021 10:50:45 GMT+0700 (Indochina Time) Timestamp: 1635825045938
[info] OS: Windows Version: 10
[info] Browser: Chrome Version: 95.0
[info] If the test cannot start, please refresh the active browser tab
[info] Executing: | open | https://www.youtube.com/ | |
[info] Executing: | click | name=search_query | |
[info] Executing: | type | name=search_query | dolphin |

Untitled Test Case

➕ Add new tag

Command	Target	Value
open	https://www.youtube.com/	
click	name=search_query	
type	name=search_query	dolphin
sendKeys	name=search_query	${KEY_DOWN}
type	name=search_query	dolphin in town

Add Command	Ctrl+I
Delete Command	
Delete All Commands	
Copy Command	Ctrl+C
Paste Command	Ctrl+V
Toggle Breakpoint	Ctrl+B
Play This Command	
Play From Here	

Command
open

Target
https://www.youtube.com/

Right-click on test case details views to display the Context menu. Users can perform most of the essential actions for command at any preferred test step:

Manage test cases

Add Command	Insert a new command in the currently selected step
Delete Command	Remove a single selected command
Delete All Command	Remove all commands of the currently selected test case
Copy Command	Copy the currently selected command
Paste Command	Paste a command at a particular test step

Debug

Toggle Breakpoint	Set a breakpoint to stop at a specific command for debugging purposes

Execute

Play this command	Run a single command for prompt feedback
Play from here	Run from a single command till the end of the script

4. Log/Reference/Variable/Self-healing

- *Log:* This tab shows the real-time report/log of the test execution. All execution errors, information messages, and execution progress are displayed here.

- *Reference:* The Reference tab displays the detailed documentation of the selected command. The information helps users to verify the types and number of parameters of each command.
- *Variables:* The Variables tab displays detailed information (name, target, and values) on the currently selected command while test execution is in progress.
- *Self-healing:* Self-healing automatically detects valid and broken locators to ensure the test script is executed without interruption. For more information, check out this article.

Katalon Recorder FAQs

- Is Katalon Recorder free?

Katalon Recorder is a free web extension available on Chrome, Firefox, or MS Edge store. To install it, head to your browser store, sign in with your Katalon account (free sign-up), and enjoy all features of Katalon Recorder.
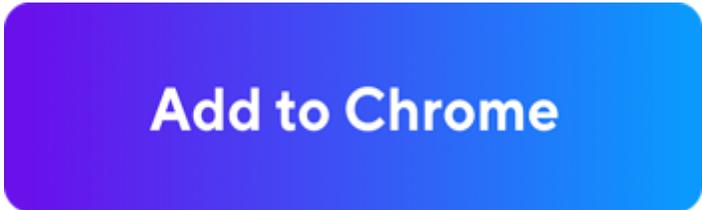
Add to Chrome

Add to Firefox

Add to MS Edge

- Does Katalon Recorder have a professional development team?

Katalon Recorder has a dedicated development team that is constantly listening to our users' needs. We optimize existing features through monthly, sometimes weekly, updates and commit to delivering quality browser automation solutions to individuals and teams at any scale.

For more information on FAQ & Troubleshooting Instructions, visit this document.

Katalon Recorder Release Notes

For more details on previous versions of Katalon Recorder, please visit our Release Notes.

EXERCISE

1. Repeat the steps in "Getting Started For Katalon Studio" (CURA Healthcare Service).
2. Copy the generated codes from Chrome Katalon Recorder.
3. Reopen Katalon previous Project (CURA Healthcare Service).
4. Create a new Test.
5. Paste the copied codes .
6. Run the test.

New Test Case Cura ⊠

❓ Help

```
24  import com.thoughtworks.selenium.Selenium
25  import org.openqa.selenium.firefox.FirefoxDriver
26  import org.openqa.selenium.WebDriver
27  import com.thoughtworks.selenium.webdriven.WebDriverBackedSelenium
28  import static org.junit.Assert.*
29  import java.util.regex.Pattern
30  import static org.apache.commons.lang3.StringUtils.join
31  import org.testng.asserts.SoftAssert
32  import com.kms.katalon.core.testdata.CSVData
33  import org.openqa.selenium.Keys as Keys
34
35  SoftAssert softAssertion = new SoftAssert();
36  WebUI.openBrowser('https://www.google.com/')
37  def driver = DriverFactory.getWebDriver()
38  String baseUrl = "https://www.google.com/"
39  selenium = new WebDriverBackedSelenium(driver, baseUrl)
40  selenium.open("https://katalon-demo-cura.herokuapp.com/")
41  selenium.click("id=btn-make-appointment")
42  selenium.click("id=txt-username")
43  selenium.type("id=txt-username", ("John Doe").toString())
44  selenium.click("id=txt-password")
45  selenium.type("id=txt-password", "ThisIsNotAPassword")
46  selenium.click("id=btn-login")
47  selenium.click("id=combo_facility")
48  selenium.select("id=combo_facility", "label=Hongkong CURA Healthcare Center")
49  selenium.click("id=chk_hospotal_readmission")
50  selenium.click("id=radio_program_medicaid")
51  selenium.click("xpath=//section[@id='appointment']/div/div/form/div[4]/div/div/div/span")
52  selenium.click("xpath=(.//*[normalize-space(text()) and normalize-space(.)='Sa'])[1]/follo
53  selenium.click("id=txt_comment")
54  selenium.type("id=txt_comment", "sakit")
55  selenium.click("id=btn-book-appointment")
56  selenium.click("xpath=//a[@id='menu-toggle']/i")
57  selenium.click("link=Logout")
58
```

🔖 Manual | 📄 Script | ✖ Variables | </> Variables (Script mode) | ▶ Integration | ⊞ Properties

```
import static com.kms.katalon.core.checkpoint.CheckpointFactory.findCheckpoint
```

```
import static com.kms.katalon.core.testcase.TestCaseFactory.findTestCase
import static com.kms.katalon.core.testdata.TestDataFactory.findTestData
import static com.kms.katalon.core.testobject.ObjectRepository.findTestObject
import com.kms.katalon.core.checkpoint.Checkpoint as Checkpoint
import com.kms.katalon.core.checkpoint.CheckpointFactory as CheckpointFactory
import com.kms.katalon.core.mobile.keyword.MobileBuiltInKeywords as
MobileBuiltInKeywords
import com.kms.katalon.core.model.FailureHandling as FailureHandling
import com.kms.katalon.core.testcase.TestCase as TestCase
import com.kms.katalon.core.testcase.TestCaseFactory as TestCaseFactory
import com.kms.katalon.core.testdata.TestData as TestData
import com.kms.katalon.core.testdata.TestDataFactory as TestDataFactory
import com.kms.katalon.core.testobject.ObjectRepository as ObjectRepository
import com.kms.katalon.core.testobject.TestObject as TestObject
import com.kms.katalon.core.webservice.keyword.WSBuiltInKeywords as WSBuiltInKeywords
import com.kms.katalon.core.webui.driver.DriverFactory as DriverFactory
import com.kms.katalon.core.webui.keyword.WebUiBuiltInKeywords as
WebUiBuiltInKeywords
import internal.GlobalVariable as GlobalVariable
import com.kms.katalon.core.webui.keyword.WebUiBuiltInKeywords as WebUI
import com.kms.katalon.core.mobile.keyword.MobileBuiltInKeywords as Mobile
import com.kms.katalon.core.webservice.keyword.WSBuiltInKeywords as WS
import com.kms.katalon.core.testobject.SelectorMethod

import com.thoughtworks.selenium.Selenium
import org.openqa.selenium.firefox.FirefoxDriver
import org.openqa.selenium.WebDriver
import com.thoughtworks.selenium.webdriven.WebDriverBackedSelenium
import static org.junit.Assert.*
import java.util.regex.Pattern
import static org.apache.commons.lang3.StringUtils.join
import org.testng.asserts.SoftAssert
import com.kms.katalon.core.testdata.CSVData
import org.openqa.selenium.Keys as Keys

SoftAssert softAssertion = new SoftAssert();
WebUI.openBrowser('https://www.google.com/')
def driver = DriverFactory.getWebDriver()
String baseUrl = "https://www.google.com/"
selenium = new WebDriverBackedSelenium(driver, baseUrl)
selenium.open("https://katalon-demo-cura.herokuapp.com/")
selenium.click("id=btn-make-appointment")
selenium.click("id=txt-username")
selenium.type("id=txt-username", ("John Doe").toString())
selenium.click("id=txt-password")
selenium.type("id=txt-password", "ThisIsNotAPassword")
selenium.click("id=btn-login")
selenium.click("id=combo_facility")
selenium.select("id=combo_facility", "label=Hongkong CURA Healthcare Center")
selenium.click("id=chk_hospotal_readmission")
```

```
selenium.click("id=radio_program_medicaid")
selenium.click("xpath=//section[@id='appointment']/div/div/form/div[4]/div/div/div/span")
selenium.click("xpath=(.//*[normalize-space(text()) and
normalize-space(.)='Sa'])[1]/following::td[27]")
selenium.click("id=txt_comment")
selenium.type("id=txt_comment", "sakit")
selenium.click("id=btn-book-appointment")
selenium.click("xpath=//a[@id='menu-toggle']/i")
selenium.click("link=Logout")
```