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Files

C:\Users\lauri\OneDrive\Työpöytä\Learn_RF

Links

Unique Locators Section 4

CSS & XPath Checker – Chrome

Selenium IDE – Firefox

- https://thetestingworld.com/testings/

Attributes:

<input class="field" name="fld_username" required="" type="text" placeholder="myusername" value="" >Hello</input>

Tags, Attributes, Inner Text

Use of Plugins:

- https://www.facebook.com/reg/
- https://fi-fi.facebook.com/

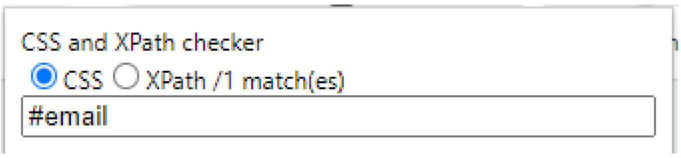
name=email, pass

id=email,

link=Onko sinulla jo tili?

CSS locators

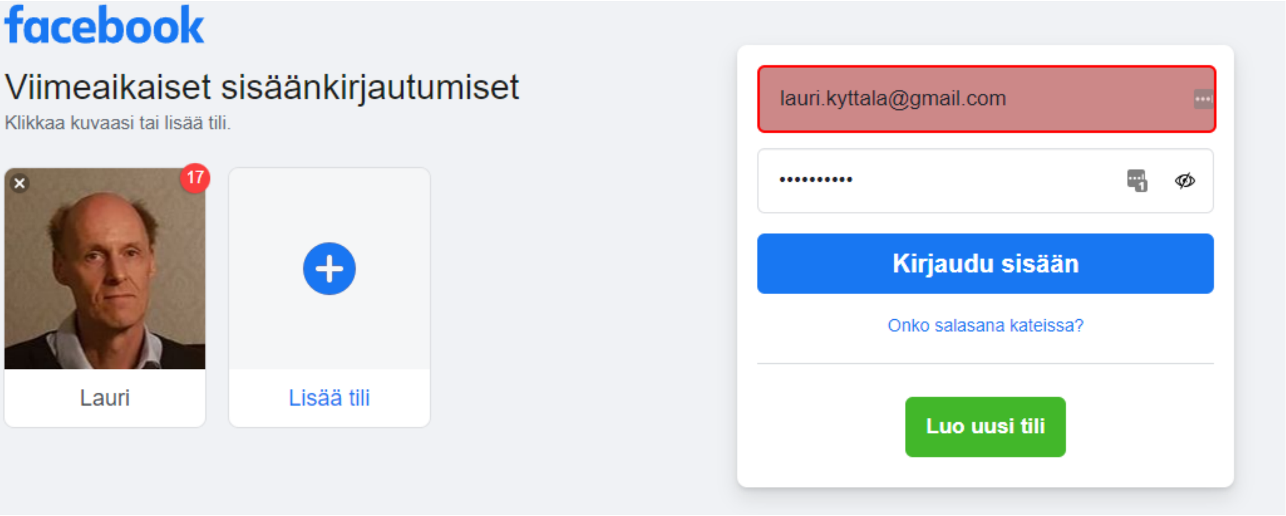
https://fi-fi.facebook.com/



CSS and XPath checker

● CSS ○ XPath /1 match(es)

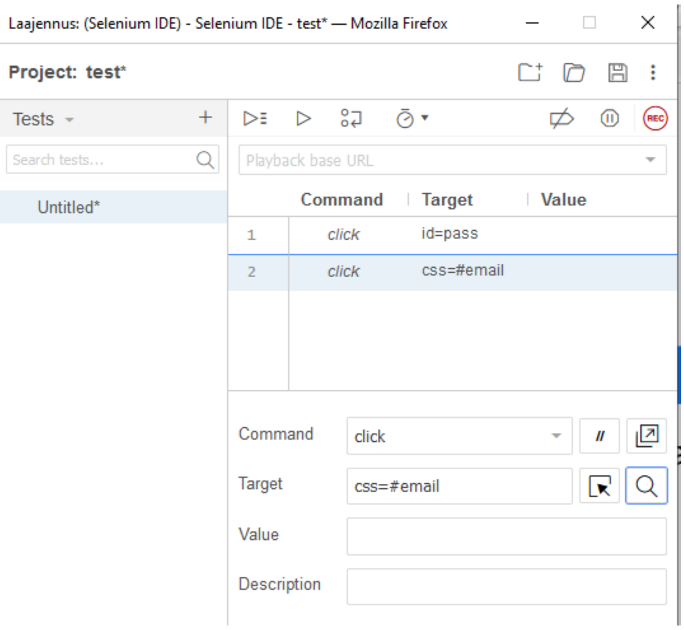
#email



lauri.kyttala@gmail.com

••••••••••

with firefox:



Laajennus: (Selenium IDE) - Selenium IDE - test* — Mozilla Firefox

Project: test*

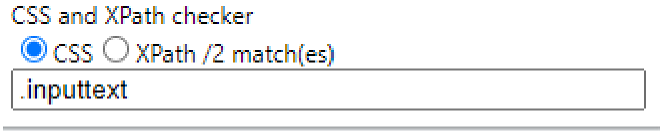
	Command	Target	Value
1	*click*	id=pass	
2	*click*	css=#email	

Command: click

Target: css=#email

Value:

Description:



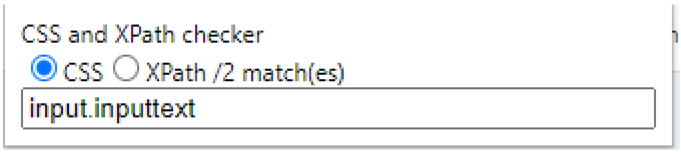
CSS and XPath checker

● CSS ○ XPath /2 match(es)

.inputtext

.inputtext

or



CSS and XPath checker

● CSS ○ XPath /2 match(es)

input.inputtext

input.inputtext

[type=’text’]

input[type='text']

input#pass[type='password'] / #pass[type='password'] / #pass

With classes .class and with attributes type

e.g.   (.inputtext[type=’email’])

#email

#pass

Xpath

https://thetestingworld.com/testings/

//input[@name='fld_username']

//input[@name='firstname' or @aria-label='Etunimi']

//select[@name='country' or @class='last country']

//select[@name='birthday_day' and @title='Päivä']

Xpath with *

//*[@*='birthday_day' and @*='Päivä']

//input[@type='text'] or //*[@type='text']

Use Xpath with innertext

https://www.facebook.com/reg/

//div[text()='Luo uusi käyttäjätili']

//a[@aria-label='Onko sinulla jo tili?']

Use Xpath with partial innertext

https://www.facebook.com/reg/

//div[contains(text(),'uusi käyttäjätili')]

Use Xpath with partial attribute value

https://www.facebook.com/reg/

//input[contains(@type,'pass')]

Locate element through its parent

https://www.amazon.com/

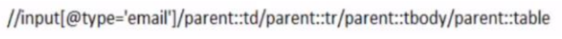
//table[@class='navFooterMoreOnAmazon']/tbody/tr[1]/td[1]

https://thetestingworld.com/testings/

//ul[@class='tabs blue']/li[2]/label

Opposite way – from Child to Parent

- didn't find example



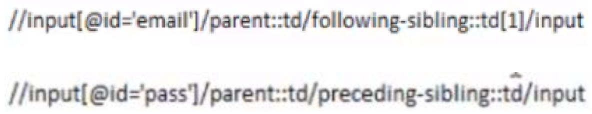
//input[@type='email']/parent::td/parent::tr/parent::tbody/parent::table

Locate element through its siblings

//input[@id='tab2']/following-sibling::label

(following or preceeding)

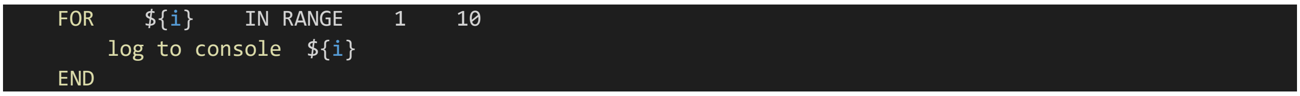
Locate element through parent | child | siblings



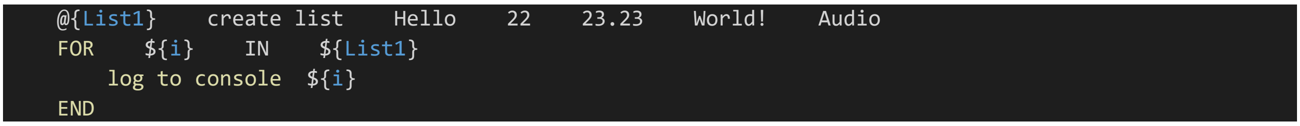
```
//input[@id='email']/parent::td/following-sibling::td[1]/input

//input[@id='pass']/parent::td/preceding-sibling::td/input
```

FOR loop in with ROBOT

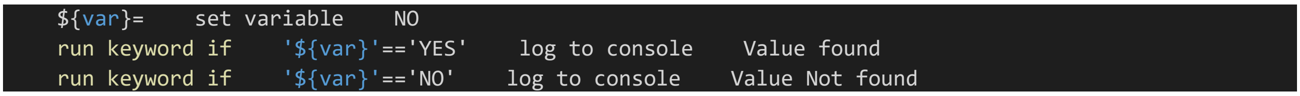


```
    FOR    ${i}    IN RANGE    1    10
        log to console  ${i}
    END
```



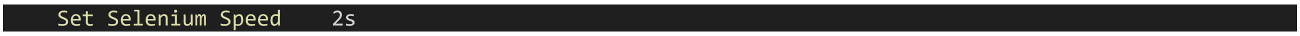
```
    @{List1}    create list    Hello    22    23.23    World!    Audio
    FOR    ${i}    IN    ${List1}
        log to console  ${i}
    END
```

Run IF



```
    ${var}=    set variable    NO
    run keyword if    '${var}'=='YES'    log to console    Value found
    run keyword if    '${var}'=='NO'    log to console    Value Not found
```

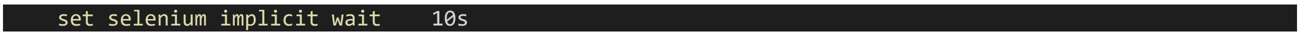
Set Selenium Speed / sleep



```
    Set Selenium Speed    2s
```

sleep 5s

Set Selenium Implicit Wait



```
    set selenium implicit wait    10s
```

Capture Snapshot

```
capture page screenshot    ./Snapshots/TC1.png
```

Scroll Down – javascript

```
    execute javascript    window.scrollTo(0,1000)
```

Mouse with RF

```
    # open context menu    xpath://span[contains(text(),'VIDEOS')]
    # double click element    xpath://a[text()='Login']
    # mouse down    xpath://a[text()='Login']
    # mouse up    xpath://a[text()='Login']
    mouse over    xpath://span[contains(text(),'VIDEOS')]
```

Keyboard Operations

```
    press key    name:username    lasse
    press key    xpath://button[@type='submit']  \\13
    # ascii value ofenter key
```

Wait commands with RF

wait until page contains

wait until page contains element

wait until element contains

wait until element visible

wait until element enable

Section 14

- For loop with final range
- For loop with starting and final range
- For loop with increment
- For loop with decrement
- For loop with list
- Break Statement
- Continue Statement

String Handling

- Concatenation
- + and *

Fetch Substring

- Fetch substring by given index
- Start and end index both
- Only start index
- Only end index

Common String Functions

- Len
- Capitalize
- Upper
- Lower
- Lstrip
- Rstrip
- Strip
- Replace
- Find
- Split

List

- Len
- Cmp
- Concatenate

Tuple

- Cannot increase, or change values

Dictionary (key, value)

- Key and value pair
- Key must be unique

Functions

```
def takeInput3(a=100, b=10, e=7):
    c=a-b
    print("Subtraction of values: " + str(c))

takeInput3(15)
```

Section 16: User Defined Keys Using Python Scripting

- Without argument
- With argument but no return value
- Argument and return value

Section17: Classes in Python

Constructors

- Special type of method
- Created with __init()__, first argument is always self
- Automatically called when object is created
- Can take arguments
- Can’t return any value
- Constructors are used for initialization

Why and where we use constructors

- e.g. database usage (opening connection only once)

Modules

- can be define as python files
- can have executable code, module, functions, classes
- classes can also have functions, properties (variables) and constructors

Create Project Structure

- with modules
- with directories
- classes and executable code

Difference between import and from-import

- use import statement
- use from module import class

Exception Handling in Python

- try, except, finally

Section18: Read Excel Data (OpenPyXL -package)

- pip install openpyxl

Section19: Work with JSON Data

- JavaScript Object Notation a lightweight data interchange format
- JSON is a syntax for storing and exchanging data
- Data is placed in JSON in the format of Key and Value pair
- Value could be an array
- Value can have further key-value (Call it object)

```
{
    "Name":"Testing world",
    "Age": 23,
    "PhoneNumber": "+358 644 231"
}
```

Json Path Basics

- How to use simple Json path (https://jsonpath.com/) e.g. $.Address.Number.Mobile
- How to write complex Json path with array
- How to write complex Json path with Object

Work with JSON

- Parse dictionary to JSON
- Parse JSON to dictionary

Fetch and validate JSON response

- Send request to API
- Parse response to JSON
- Validate by JSON Path
- https://reqres.in/api/users?page=2

Section20: Advance Robot Skills

Element Locators

- Using element locators
- TC_002_Start_Close_Browser.robot is working

BDD format test cases (Gergin)

- Example

```
*** Test Cases ***
Test Case in BDD Format
    Given Start Browser and Maximize
    When Create Folder at Runtime    robot12    test
    Then Concatenate Username and Password    lasse    123456
```

Record Test Cases

- Install robotcorder to chrome
- Might be the case you have to update locators
- Save the recorded file, and sections and libraries are added – copy saves file to new robot test file
- Scan scans whole page
- with settings (add sleep, check page contains)

Section21 Data Driven Testing

- https://thetestingworld.com/testings/

Section22 Code Management using GitHub