

Pre-requirements:

- [Python Basics](#)
- Chrome Web Browser
- Internet Connection

Download links:

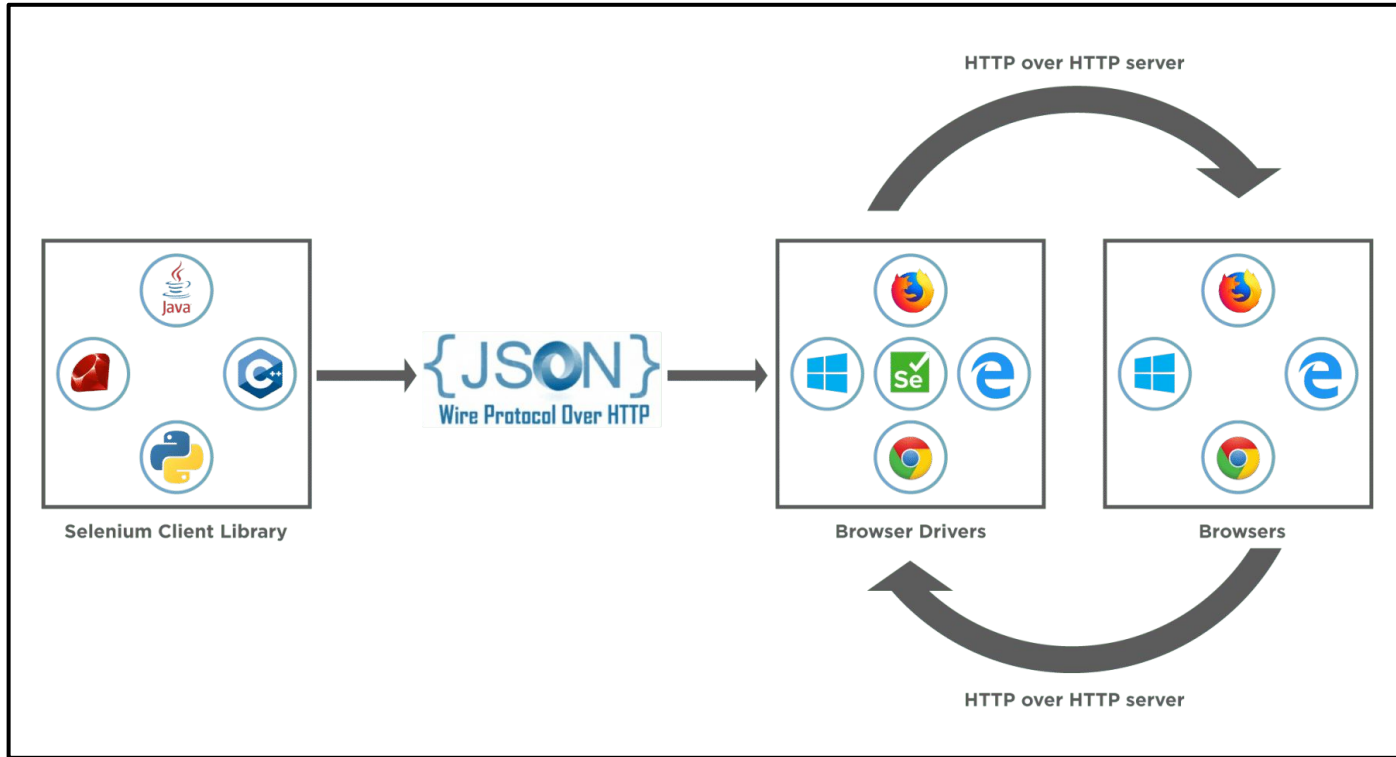
- [PYTHON](#)
- [PYCHARM](#)

Documents:

- [Selenium unofficial](#)



Selenium architecture



Navigation:

```
driver.get("{website_url}")
```

Locators (to locate the web element):

- ID = "id"
- **XPATH** = "xpath"
- LINK_TEXT = "link text"
- PARTIAL_LINK_TEXT = "partial link text"
- NAME = "name"
- TAG_NAME = "tag name"
- CLASS_NAME = "class name"
- CSS_SELECTOR = "css selector"

Common Actions:

- .send_keys() = to enter input value in a blank
- .click() = to give click command
- .clear() = to clear the input field
- .text = to copy the text



CSS Selector Locator

FROM	SYNTAX
Class, Attribute & Value	tagname.classvalue[attribute = 'value']
Attribute & Value	tagname[attribute = 'value']
ID	tagname#IDvalue
Class	tagname.classvalue

Note: Tagname is optional



XPATH Locator 1

FROM	SYNTAX
Attribute & Value	<code>//tagname[@attribute = 'value']</code>
2 Attributes & Values	<code>//tagname[@attribute1 = 'value1' and/or @attribute2 = 'value2']</code>
Text	<code>//tagname[text() = 'type text here']</code>
Starts with	<code>//tagname[starts-with(@attribute, 'starting values')]</code>
contains	<code>//tagname[contains(@attribute, 'value')]</code>
Starts with and contains	<code>//tagname[starts-with(@attribute1, 'starting values') and/or contains(@attribute2, 'value')]</code>
Partial Text	<code>//tagname[contains/starts-with(text(), 'partial text here')]</code>

Use * if don't want to use specific tagname or attribute.



XPATH Locator 2

FROM	SYNTAX
Parents to any child or grandchild	//tagname[@attribute = 'value']//tagname[@attribute = 'value']
Parents to specific no. of child or grandchild	(//tagname[@attribute = 'value']//tagname)[number]
Parents to last child or grandchild	(//tagname[@attribute = 'value']//tagname)[last()]
Parents to 3rd last child or grandchild	(//tagname[@attribute = 'value']//tagname)[last()-2]
Child to any ancestor	//tagname[@attribute = 'value']/ ancestor ::tagname[@attribute = 'value']
Parent to first n number of child	(//tagname[@attribute = 'value']//tagname)[position() >,< ,= number]

/ means absolute, // means relative.



Framework

A framework is a structure that we use to build project. It acts as a foundation so we don't have to deal with creating unnecessary extra logic from scratch.

A framework is similar to a template in that we can modify it and add certain features and higher functionalities to create a complex and broad project that many people can use.

Pytest Document



PYTHON SELENIUM with PYTEST

(HINDI 2023)

#16 - PYTEST FRAMEWORK
BASICS (PART-1)

