Pre-requirements:

- Python Basics
- Chrome Web Browser
- Internet Connection

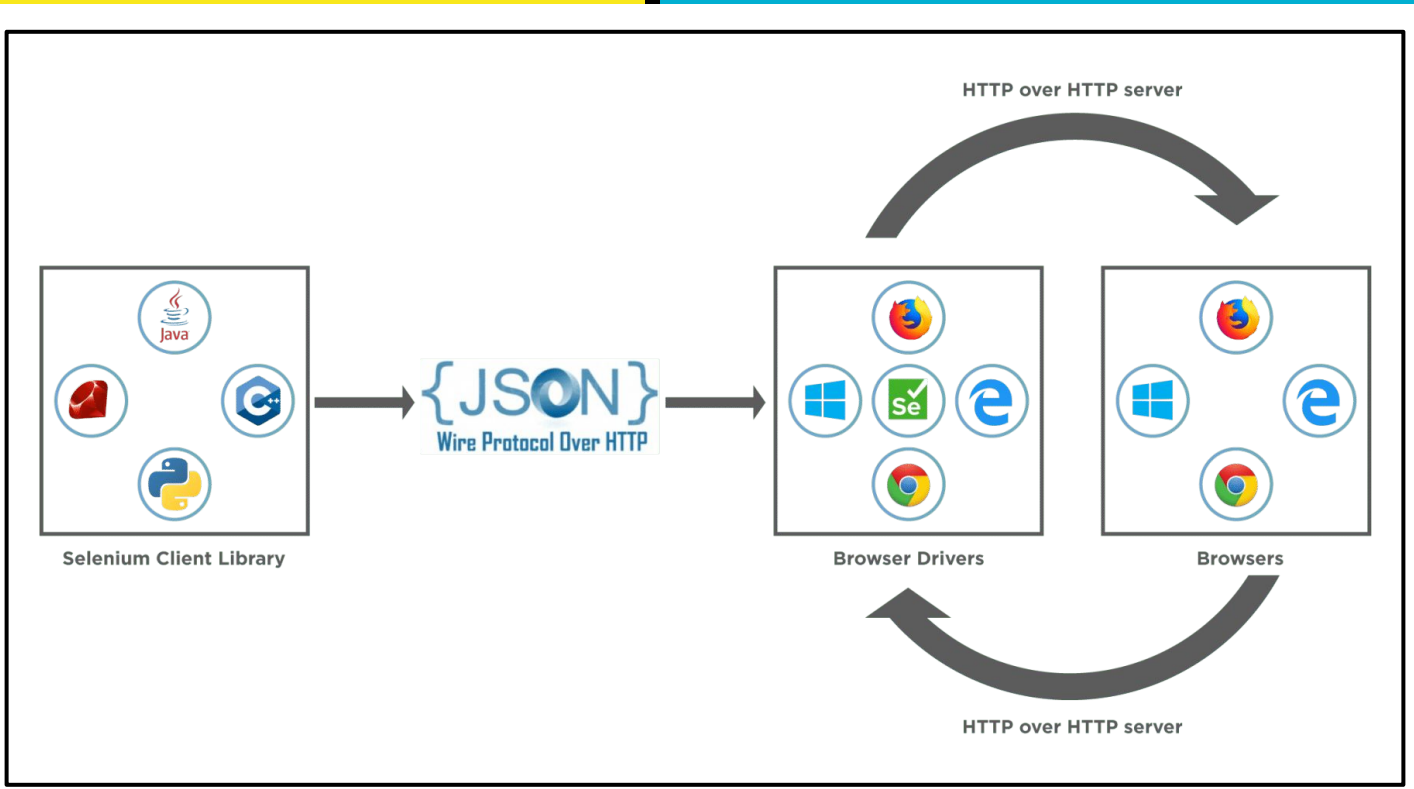
Download links:

- 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	//tagname[@attribute = ‘value’]
2 Attributes & Values	//tagname[@attribute1 = ‘value1’ and/or @attribute2 = ‘value2’]
Text	//tagname[text() = ‘type text here’]
Starts with	//tagname[starts-with(@attribute,’starting values’)]
contains	//tagname[contains(@attribute,’value’)]
Starts with and contains	//tagname[starts-with(@attribute1,'starting values') and/or contains(@attribute2,’value')]
Partial Text	//tagname[contains/starts-with(text(), ‘partial text here’)]

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)