### **///<reference types="cypress" />**

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### **2.2 Locators in Cypress**

Locators are used to find and interact with elements on a web page. Cypress provides various ways to locate elements.

#### **2.2a . CSS Selectors**

CSS selectors are the most common way to locate elements in Cypress.

CSS selectors in Cypress acts like universal locator for all the attributes.

General Syntax - tagname[attribute=value]

input[name='username']

For ID attribute - tagname#idvalue

#idvalue

For class attribute - tagname.classvalue

.classvalue

For Multiple attributes :

tagname[attribute=value][attribute=value]

cy.get('input[name="username"]').type('myusername')

cy.get('.submit-button').click()

#### **2.2b . XPath Selectors**

Xpath is an html path that is used for traversing to locate the Webelement.

XPath can be divided into 2 Types :

1)**Absolute Xpath** - Traversing from html tag to specified tag. We use ‘/’

2)**Relative Xpath** - Direct traversal to specified tag. We use ‘//’

Syntax - //tagname[@attribute=’value’]

**Xpath using text function :**

Syntax - //tagname[text()=’textvalue’]

//tagname[.=’textvalue’]

Example -

//a[text()=' Help & Contact']

**Xpath using contains function.**

Syntax - //tagname[contains(text(),’textvalue’)]

Example - //a[contains(text(),'Free Access')]

**Xpath using Indexing.**

This we use when we are having multiple results

1 of 2 , 1 of 3 in ur finder.

Syntax - (//tagname[@attribute=’value’])[1]

**Xpath using Multiple attributes**

Syntax - //tagname[@att1=’value1’ and @att2=’value2’]

Example - //input[@name='radioButton' and @value='radio1' and @class='radioButton' and @type='radio']

CSS vs Xpath

1. Faster : CSS Selectors are faster.
2. Efficient : CSS
3. Xpath we have a lot of functions like text(), contains, indexing.

Cypress doesn't support XPath selectors out-of-the-box, but you can add support using the cypress-xpath plugin.

npm install -D cypress-xpath

**Configuration:**

In cypress/support/index.js, add the following line:

require('cypress-xpath')

**Example:**

cy.xpath('//input[@name="username"]').type('myusername')

cy.xpath('//button[text()="Submit"]').click()

#### **2.2c. ID Selectors**

ID selectors are used to locate elements by their ID attribute.

cy.get('#username').type('myusername')

cy.get('#submit-button').click()

#### **2.2d. Class Selectors**

Class selectors are used to locate elements by their class attribute.

cy.get('.login-input').type('myusername')

cy.get('.submit-button').click()

#### **2.2e. Tag Name Selectors**

Tag name selectors are used to locate elements by their HTML tag name.

cy.get('input').type('myusername')

cy.get('button').click()