**Locators:**

ID

Name

Class name

link Text

Xpath

Css selector

Html nodes:

1. Tagname
2. Attribute name and value
3. LinkText(Optional)

Example:

**(node Starts)--------**

**<div --------(**Tag name**)**

**class="r-1862ga2 r-1loqt21 r-1enofrn r-tceitz r-u8s1d css-76zvg2" -------(Attribute name = “Value”)**

**dir="auto" -------(Attribute name = “Value”)**

**data-focusable="true" -------(Attribute name = “Value”)**

**tabindex="0" -------(Attribute name = “Value”)**

**style="font-family: inherit; top: 8px; width: calc(100% - 32px);" -------(Attribute name = “Value”)**

**>From< ------------ (Link Text)**

**/div> ---------(node ends)**

**<input**

**autocapitalize="sentences"**

**autocomplete="on"**

**autocorrect="on"**

**class="css-1cwyjr8 r-homxoj r-ubezar r-10paoce r-13qz1uu"**

**dir="auto"**

**spellcheck="false" type="text"**

**data-focusable="true"**

**value=""**

**style="font-family: inherit; text-overflow: ellipsis;">**

**Relative Xpath:**

1. **Using Attribute –**

**//tagname[@Attributename = “value”]**

**//input[@class=”css-1cwyjr8 r-homxoj r-ubezar r-10paoce r-13qz1uu”]**

1. **Using linktext**

**//tagname[text()=’lintext’]**

**//div[text()='Departure Date']**

**Code(selenium/eclipse ide) 🡪 Browser (not possible)**

**Code(selenium/eclipse ide) 🡪 chrome driver (driver )🡪 Browser (possible)**

JavaScript:

1. Date picker
2. Scroll test
3. Highlight

There are two types of web application

Static = applications whose attribute values does not change with refresh

Dynamic = applications whose attribute values do change with refresh (at least one attribute value changes with refresh)

**Regular expressions in xpath:**

1. **contains**
2. **Starts-with**
3. **Ends-with**

id="u\_0\_b\_qR"

id="u\_0\_b\_5p"  
id="u\_0\_b\_QN"

**Contains syntax: //input[contains(@id, 'u\_0\_b\_')]**

**//tagname[@Attributename = “value”]**

//tagname[contains(@attriuteName, ‘PartialValue’)]

**//input[@id=’**u\_0\_b\_qR**’] (fails because dynamic application)**

**//input[contains(@id, ‘**u\_0\_b\_**’)]**

**With text:**

**//tagname[text()=’lintext’]**

**//div[text()='Departure Date']**

**//tagname[contains(text(), ‘Partial LinkText’)]**

**//div[contains(text(), 'Create a new')]**

Create a new account1 **//input[text()=’**Create a new account1**']**

Create a new account4

Create a new account8

Starts-with:

**//input[starts-with(@id, 'u\_0\_b\_')]\**

**//input[contains(@id, '\_0\_b\_')]**

**//div[starts-with(text(), 'Create a new')]**

id="u\_0\_b\_qR"

id="t\_0\_b\_5p"  
id="z\_0\_b\_QN"

ends-with:

***ends-with function is available for Xpath 2.0 and usually browsers lib uses xpath 1.0***

//tagname[ends-with(@attriuteName, ‘PartialValue’)]

//tagname[contains(text(), ‘PartialLinkTextValue’)]

id="u\_0\_b\_qR"

id="r\_1\_b\_qR"

id="z\_6\_b\_qR"

id="j\_p\_b\_qR"

//input[ends-with(@id, ‘\_b\_qR’)]

//input[ends-with(text(), ‘a new account’)]

**’**Create1 a new account**'**

**’**Create2 a new account**'**

**’**Create3 a new account**'**

//input[ends-with(text(), ‘a new account’)]

**Parent**

**//button[@id="search\_btn"]/parent::div/parent::section/parent::div**

**//button[@id="search\_btn"]/../../..**

**Descendant**

**//div[@id="search\_div"]/descendant::span[@id="togglebtn"]**

**//div[@id="search\_div"]/section/div/span**

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**Close : It closes the active tab only**

**Quit : It ends the entire session or closes the whole browser.**

**Assertions:**

**Done**

**Dynamic password:**

**String split:**