

methods of WebDriver and its significance

- 1) void get(String url) : This method is used to load new web page
- 2) String getCurrentUrl() : This method returns current page URL
- 3) String getTitle() : This method returns current page Title
- 4) String getPageSource() : This method returns current page source code
- 5) void close() This method close current active window.
If it's the last window currently opened then close the browser.

- 6) void quit() This method stop the driver and close all associated window with that driver
- 7) String getWindowHandle() : This method returns current active window ID
- 8) Set<String> getWindowHandles() : This method return all windows ID opened by Driver
- 9) WebElement findElement(By by)

This method is used to find the web element by using some locating mechanism like

- i) find by id attribute -> `driver.findElement(By.id("txtUsername"));`
- ii) find by name attribute -> `driver.findElement(By.name("txtUsername"));`
- iii) find by class attribute -> `driver.findElement(By.className("form-hint"));`
- iv) find by linktext -> `driver.findElement(By.linkText("Forgot your password?"));`
- v) find by partial link text -> `driver.findElement(By.partialLinkText("Forgot your"));`

vi) find by tag name -----> `driver.findElement(By.tagName("input"));`

vii) find by css selectors

Syntax : `//tagname[@attribute_name='attribute_value']`

`<input type="submit" name="Submit" class="button" id="btnLogin" value="LOGIN">`

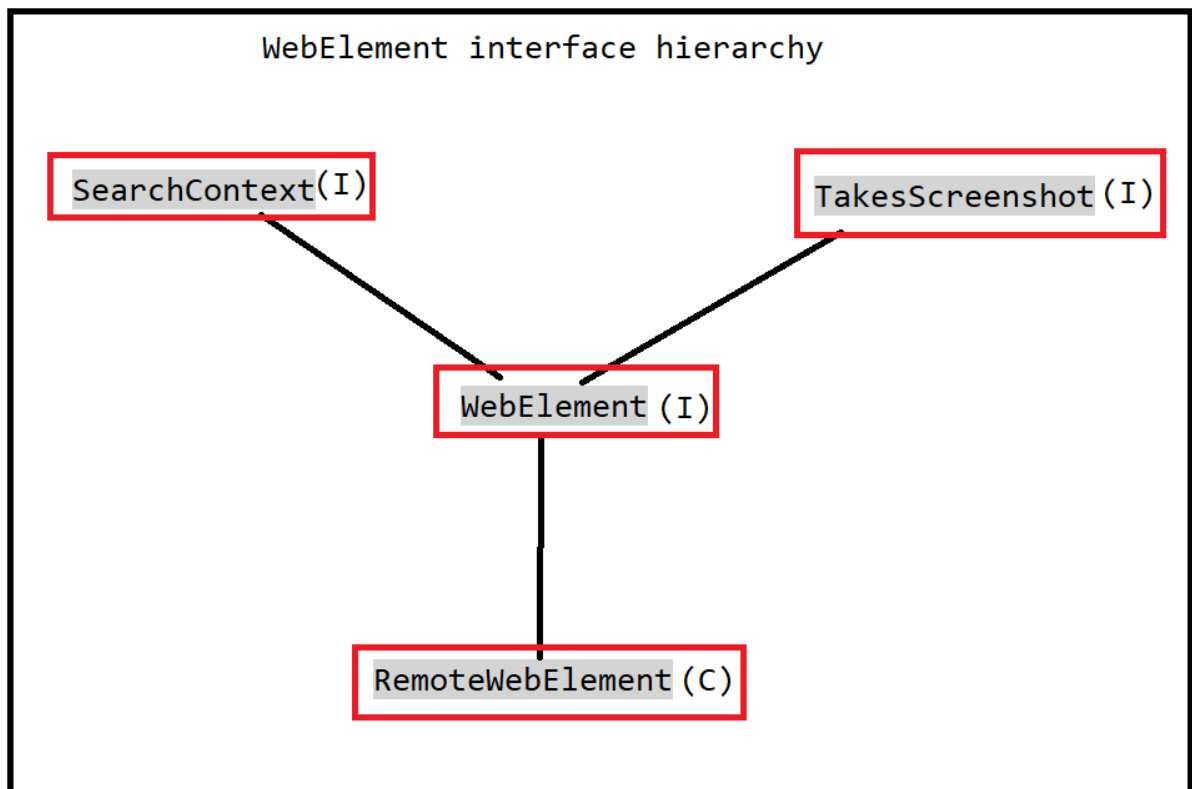
viii) find by xpath(xml path)

Syntax for relative path : `//tagname[@Attribute='value']`

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Url for Testing Purpose :

<https://login.yahoo.com/account/create>



- 1) WebElement interface is extending two interfaces
a) SearchContext b) TakesScreenshot
- 2) WebElement interface present in `org.openqa.selenium`
- 3) RemoteWebElement is implementation class of WebElement interface
- 4) WebElement Represents an HTML element
- 5) To perform operations on web element required methods are declared inside this interface.

Demo program to Login to: <https://www.saucedemo.com/>

```
public class LaunchBrowser {  
    public static void main(String[] args) {  
        System.setProperty("webdriver.edge.driver", "E:\\SeleniumWebDriver\\msedgedriver.exe");  
        WebDriver driver=new EdgeDriver();  
        driver.get("https://www.saucedemo.com/");  
        WebElement username=driver.findElement(By.id("user-name"));  
        username.sendKeys("problem_user");  
  
        WebElement password=driver.findElement(By.id("password"));  
        password.sendKeys("secret_sauce");  
  
        WebElement clickLogin=driver.findElement(By.id("login-button"));  
        clickLogin.click();  
    }  
}
```