**WebElement Interface Methods**

| Method | Return Type | Parameters | Description |
| --- | --- | --- | --- |

| click() | void | None | Clicks on the element. 👉 Use for buttons, links, checkboxes, etc. |
| --- | --- | --- | --- |
| sendKeys(CharSequence... keysToSend) | void | Text/input | Sends keyboard input to the element. 👉 Use for entering text in input fields. |
| clear() | void | None | Clears the text if it's a text entry element. 👉 Use before sendKeys() for better reliability. |

| getText() | String | None | Gets the visible (inner) text of the element. 👉 Useful for validations. |
| --- | --- | --- | --- |
| getAttribute(String name) | String | Attribute name | Returns the value of a given attribute. 👉 Example: getAttribute("href"), getAttribute("value") |
| getCssValue(String propertyName) | String | CSS property | Gets computed CSS property value (e.g., color, font-size). 👉 Useful in visual/UI test validations. |
| getTagName() | String | None | Gets the tag name of the element (like input, div, a, etc.) |

| isDisplayed() | boolean | None | Returns true if the element is visible on the page. |
| --- | --- | --- | --- |
| isEnabled() | boolean | None | Returns true if the element is enabled (not disabled). |
| isSelected() | boolean | None | Returns true if the element (checkbox/radio) is selected. |
| submit() | void | None | Submits a form if the element is within a form. |

| getSize() | Dimension | None | Returns width and height as a Dimension object. |
| --- | --- | --- | --- |
| getLocation() | Point | None | Returns the element’s location on the screen as a Point object. |
| getRect() | Rectangle | None | Combines location and size into a Rectangle object. |

| findElement(By by) | WebElement | Locator | Finds a child element within the current element. |
| --- | --- | --- | --- |
| findElements(By by) | List<WebElement> | Locator | Finds multiple child elements under the current element. |

| getDomProperty(String name) | String | Property name | Returns the property value from the DOM. 👉 Similar to getAttribute, but strictly from the DOM. |
| --- | --- | --- | --- |
| getDomAttribute(String name) | String | Attribute name | Returns the attribute value from the DOM, even if not visible. |

✅ 1. getDomProperty(String name)

🔍 Used to fetch the value of a DOM property of an element.

#### 📌 Example:

WebElement input = driver.findElement(By.id("email"));

String value = input.getDomProperty("value"); // Current value in the input field

System.out.println("DOM Property - value: " + value);

String type = input.getDomProperty("type"); // Should return "text", "email", etc.

System.out.println("DOM Property - type: " + type);

### ✅ **2.** getDomAttribute(String name)

🔍 Used to fetch the value of a DOM attribute (even if it’s not visible).

#### 📌 Example:

WebElement input = driver.findElement(By.id("email"));

String placeholder = input.getDomAttribute("placeholder");

System.out.println("DOM Attribute - placeholder: " + placeholder);

String ariaLabel = input.getDomAttribute("aria-label");

System.out.println("DOM Attribute - aria-label: " + ariaLabel);

| Use Case | Method to Use |
| --- | --- |
| Read current input field value | getDomProperty("value") |
| Check the original placeholder text | getDomAttribute("placeholder") |
| Get dynamic JavaScript-updated property | getDomProperty() |
| Get static attributes from HTML | getDomAttribute() |