# CYDEO

findElements() Method CheckBox Radio Button



# Topics

- FindElements
- FindElement vs FindElements
- Checkboxes
- Radiobuttons
- Practices



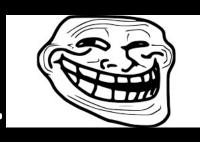
# findElement()

- This method is used to locate a single web element
- Returns a single web element
- Return type is:
- → "WebElement"
- If it cannot find a WebElement:
- throws NoSuchElementException.



# findElements() method

- This method is used to find more than one webElement
- Locates and returns all the matching web elements in a list
- Return type:
- <del>\rightarrow</del> List < WebElement >
- If it cannot find a webElement:
- → Does NOT throw exception.
- Only returns an empty list.





## THREAD SLEEP

- Thread.sleep(2000); ==> this is not Selenium.
- Thread.sleep comes from java.
- STOPS the running of the code for the given milliseconds
- This is not recommended to use.



## IMPLICIT WAIT

- driver.manage().timeouts().implicitlyWait(15, TimeUnit.SECONDS);
- implicitWait is a type of <u>Selenium waits</u>.
- implicitWait will check DOM (HTML PAGE) and wait until given seconds if there are any web elements not available
- implicitWait will continue when the page is loaded.
- it does NOT have to wait until given seconds, if the page loaded.
- It is triggered ONLY if .findElement/s method can't locate web elements immediately.
- By default its value is 0, so it is basically turned off.



# <input> - RADIO BUTTON

#### type="radio"

Radio buttons allow users to pick just one of a number of options

#### name

The name attribute is sent to the server with the value of the option the user selects.

#### value

The value attribute determines the value that is sent to the server for the selected option. The value of each of the buttons in a group should be different.



## RADIO BUTTON

Please select your favorite food:

Burger Kabab Salad



# <input> - CHECKBOX

#### type="checkbox"

Checkboxes allow users to select(and unselect) one or more options in answer to a question.

#### name

The name attribute is sent to the server with the value of the option(s) the user selects.

#### value

The value attribute indicates the value sent to the server if this checkbox is checked.



# What are the differences between radio button and checkboxes?

- Each checkbox operates individually.
- Options are independent from each other.
- So users are allowed to select multiple options at once.
- Radio buttons, however, operate as a group and are used to allow user to select one from a set of options.
- So users are allowed to select only one option.

# CHECKBOXES ✓ red ✓ blue ✓ green RADIOBUTTONS ─ red ─ blue ○ green



## Select your car (s)

- mercedes
- bmw
- toyota

#### Select one color

ored oblue green

```
<h2>Select your car (s)
<input type="checkbox" name="option1" value="mercedes">mercedes <br>
<input type="checkbox" name="option2" value="bmw">bmw <br>
<input type="checkbox" name="option3" value="toyota">toyota <br>
<h2>Select one color</h2></input type="radio" name="option" value="red">red</input type="radio" name="option" value="blue">blue</input type="radio" name="option" value="green">green

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```

# How do we handle checkboxes and radio button in Selenium?

- 1. We can click.
- 2. .isSelected(); --> if checkbox is selected it will return true, else false
- 3. .isEnabled(); --> if checkbox is enabled on the page, it will return true.



# Syntax:

- WebElement checkbox = driver.findElement(By.locator);
- checkbox.click();

• checkbox.isSelected() --> will return true if checkbox is selected.



# What is **StaleElementReferenceException?**

- Usually throws when navigation (refresh, forward, back) happens
- OR
- When the element is deleted from the page
- The <u>driver loses its reference</u> of the web element and throws this exception
- Stale word meaning...
- https://www.selenium.dev/exceptions/#stale\_element\_reference



# When does it happen?

- When the element is completely deleted from the HTML page.
- When navigation happens on the page.



# How to handle StaleElementReferenceException?

• If StaleElementReferenceException is happening due to element being deleted from the page, then we can handle the situation using try/catch to avoid exception being thrown and set our own condition.

• If StaleElementReferenceException happening due to navigate, we can re-assign the reference/connection of the web element.

