CyberLogitec

VIETNAM



Handle Web Element





Web Element Command

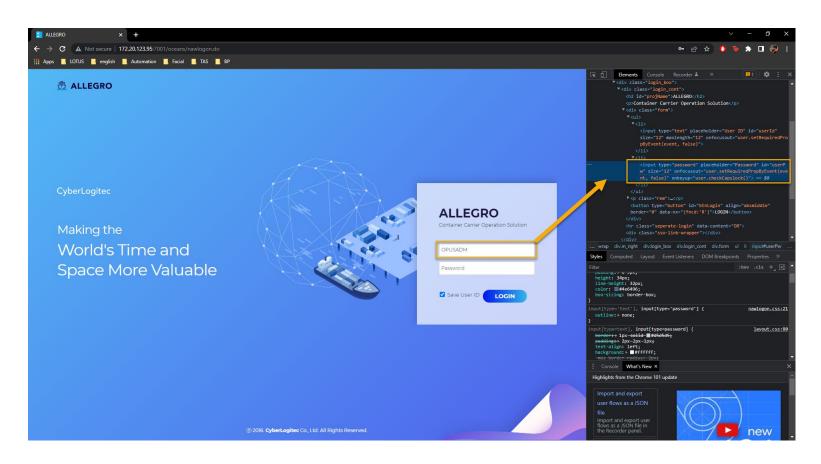


Agenda

- Textbox/ Text Area
- Dropdown
- Button/ Checkbox/ Radio Button
- Popup, Tab/Iframe
- Browser Window/ Tab
- Upload File
- Waits

Web Element Command





Textbox/ Text Area



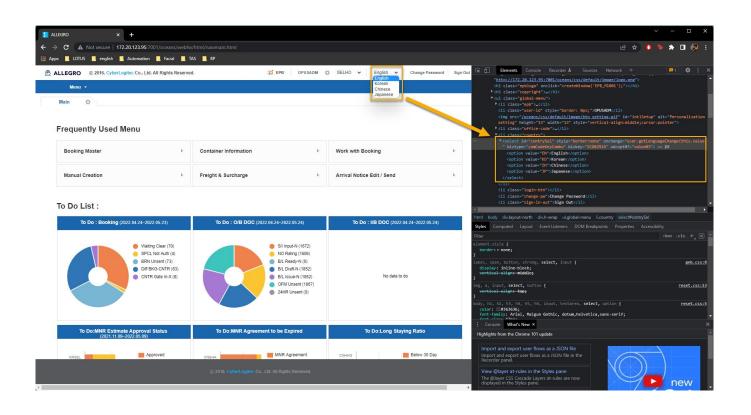
```
<input type="text" placeholder="User ID" id="userId" size="12" maxlength="12"
onfocusout="user.setRequiredPropByEvent(event, false)">
<input type="password" placeholder="Password" id="userPw" size="12"
onfocusout="user.setRequiredPropByEvent(event, false)" onkeyup="user.checkCapslock()">
Define variable for text element
Syntax:
WebElement txtUserId = new Select(driver.findElement(By.id("User ID"));
WebElement txtpwd = new Select(driver.findElement(By.id("Password"));
```

Textbox/ Text Area



```
Action methods of textbox:
txtUserId.click();
txtUserId.sendKeys("abcdef");
txtUserId.clear();
Get methods of textbox:
String inputtedUserId = txtUserId.getText();
String inputtedUserId = txtUserId.getAttribute("value");
Return: inputtedUserId = abcdef
Question: How to input date/time textbox?
```









```
Action methods of Dropdown:
select.selectByIndex(index);
select.selectByValue("value");
select.selectByVisibleText("text");
select.deselectByIndex(index);
select.deselectByValue("value");
select.deselectByVisibleText("text");
select.deselectAll();
```

Question: Which option is better is actual testing?



```
Validate methods of Dropdown:
boolean flag;
flag = select.isMultiple();
Return: flag = true/false;
Get methods of Dropdown:
select.getFirstSelectedOption();
select.getFirstSelectedOption().getText();
List<WebElement> listSelected = select. getAllSelectedOptions();
List<WebElement> allOptions = select. getOptions();
```

Button/ Checkbox/ Radio Button



Button:

```
<button type="button" id="btnLogin" align="absmiddle" border="0" data-nx="{fncd:'R'}">LOGIN</button>
```

< button type="button" class="doaction state-disabled" id="btnC" data-nx="{fncd:'C'}" value="" auth="S" tabindex="-1" disabled>Cancel</ button>

Checkbox:

```
<input type="checkbox" id="dngCgoYn" value="Y" data-nx="{ref:{req:'BkdBookingOutOMM@bkdCore/dngCgoYn',res:'BkdBookingOutOMM@bkdCore/dngCgoYn'}}" tabindex="50"></ input>
```

Radio Button:

```
<input type="radio" checked="" name="condDateType" id="condDateType1" value="Y"
data-nx="{ref:{req:'BkdListCondOMM@dateGbn'}}">"></ input>
```

Define variable for element

Syntax:

```
WebElement btnLogin = driver.findElement(By.id("btnLogin"));
WebElement cbDngCgo = driver.findElement(By.id("dngCgoYn"));
WebElement rbtnBkg = driver.findElement(By.id("condDateType1"));
```

Button/ Checkbox/ Radio Button



Action methods of Button, Checkbox and Radio Button:

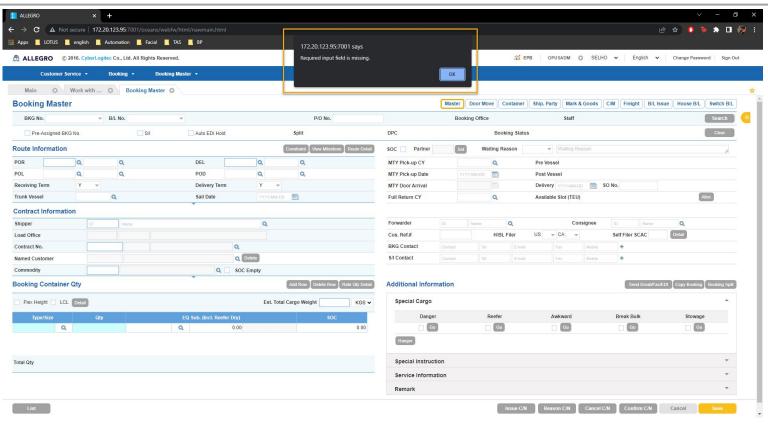
```
btnLogin.click();
cbDngCgo.click();
rbtnBkg.click();
Validate methods of Checkbox and Radio Button:
boolean cbFlag;
boolean rbtnFlag;
cbFlag = cbDngCgo.isSelected();
rbtnFlag = rbtnBkg .isSelected();
Return: flag = true/false;
```

Question:

- How to deselect checkbox and radio button?
- 2. How to validate button?

Alert





Alert



```
Define variable for element

Syntax :

WebDriverWait wait;

Alert alert;

wait = new WebDriverWait(driver,30);

wait.until(ExpectedConditions.alertIsPresent());

alert = driver.switchTo().alert();
```

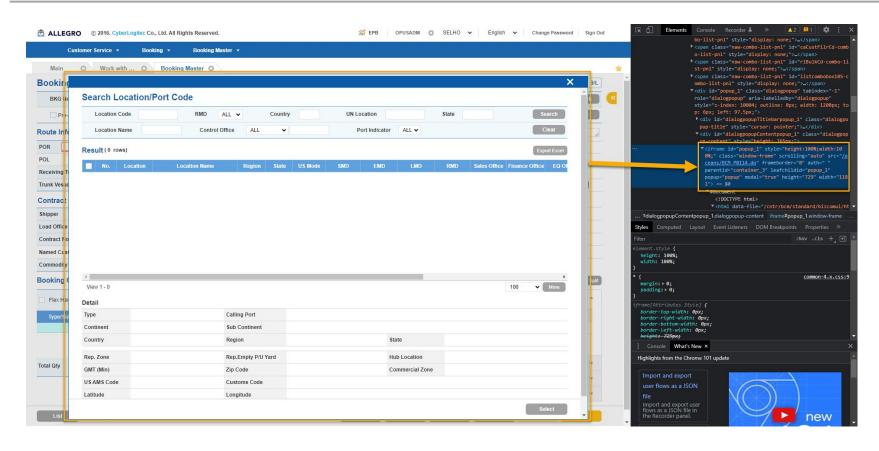
Alert



```
Action methods of Alert:
alert.accept();
alert.dismiss();
alert.sendKeys();
Get methods of Alert:
alert.getText();
```

Popup, Tab/Iframe





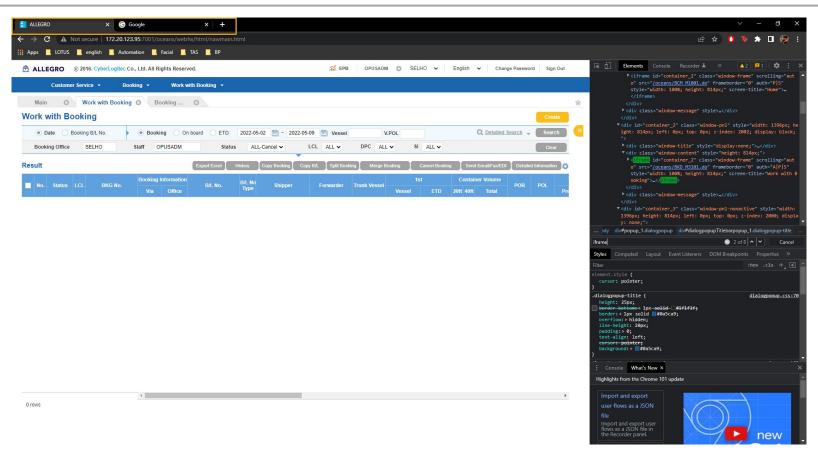
Popup, Tab/Iframe



```
<iframe id="popup 1" style="height:100%;width:100%;" class="window-frame"</pre>
scrolling="auto" src="/oceans/BCM P0114.do" frameborder="0" auth=" "
parentid="container 3" leafchildid="popup 1" popup="popup" modal="true"
height="729" width="1181"></iframe>
Action methods of popup:
BCM P0114 popup = new BCM P0114(driver);
popup = driver.switchTo().frame("popup 1");
Action . . . .
popup = driver.switchTo().defaultContent();
```

Browser Window/ Tab





Browser Window/ Tab



```
Get id of current tab:
String parentID = driver.getWindowHandle();
Get id of all tabs:
Set<String> allIDs = driver. getWindowHandles();
Switch to Window/ Tab:
   driver.switchTo().window(id);
i.e:
for (String id: allIDs) {
   if(! id.equals(parentID)){
        driver.switchTo().window(id);
```

Browser Window/ Tab



```
Close tab:
```

```
driver.close();
```

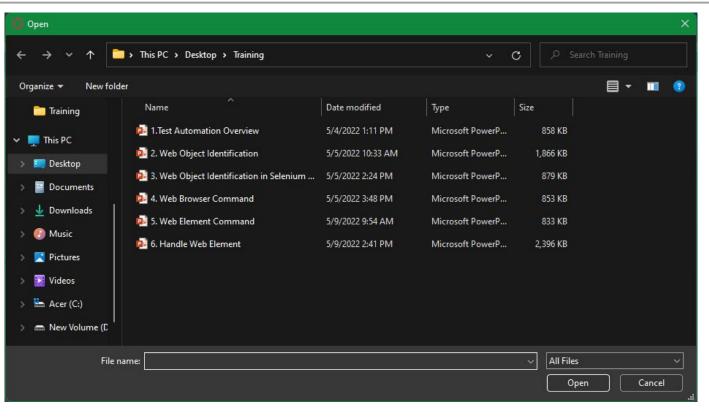
Create new Window/Tab and switch:

driver.switchTo().newWindow(WindowType.TAB);

driver.switchTo().newWindow(WindowType.WINDOW);

Upload File





Upload File



```
import java.awt.Robot;
import java.awt.datatransfer.StringSelection;
Robot rb = new Robot();
String filePath = "C:\\Users\\nguye\\Downloads";
String fileName = "test.xlsx";
StringSelection str = new StringSelection(filePath + fileName);
Toolkit.getDefaultToolkit().getSystemClipboard().setContents(str, null);
rb.keyPress(KeyEvent.VK CONTROL);
rb.keyPress(KeyEvent.VK V);
rb.keyRelease(KeyEvent.VK CONTROL);
rb.keyRelease(KeyEvent.VK V);
rb.keyPress(KeyEvent.VK ENTER);
rb.keyRelease(KeyEvent.VK ENTER);
```

Waits



Sleep : do nothing in ... time.

Syntax:

Thread.sleep(milisecond);

i.e:

Do nothing in the next 3s:

Thread.sleep(3000);

Waits



Explicit Wait: wait for something ... in ... time.

Syntax:

Import org.openqa.selenium.support.ui.ExpectedConditions; Import org.openqa.selenium.support.ui.WebDriverWait;

WebDriverWait wait = new WebDriverWait(driver,30);
wait.until(ExpectedConditions.alertIsPresent());

Explain:

Wait for the alert to be displayed every 0,5s. Total wait time is 30s

Waits



Explicit wait types:

- alertIsPresent()
- elementToBeClickable()
- invisibilityOfTheElementLocated()
- visibilityOfElementLocated()

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Q/A?

