

# Selenium Class 28 - Element Handling in Selenium Part-3

## 4) Handling Link

Types of Links in the Web....

### ***i) User Interface Design Point view***

- a) Text Link (ex: "Gmail" link in Google Home Page)
- b) Image Link (ex: Selenium IDE Link in seleniumhq.org)

### ***ii) Functionality Point view***

- a) Internal Link (It redirects to another location in the same page or another page in the same application)
  - b) Out going Link (It redirects to another application)
  - c) MailTo
- Etc...

.....

### **Manual Actions on Link Element**

- Check Displayed Status (Visible/Displayed/Exists)
- Check Enabled Status
- Click
- Return Element Name etc...

Selenium WebDriver Steps:

```
System.setProperty("webdriver.chrome.driver", "E:/chromedriver.exe");
```

```
WebDriver driver = new ChromeDriver();
driver.manage().window().maximize();

driver.get("https://www.google.com/");
//Check Link Existence
boolean linkPresent= driver.findElement(By.linkText("Gmail")).isDisplayed();
System.out.println(linkPresent);

//Check Enabled status
boolean linkStatus = driver.findElement(By.linkText("Gmail")).isEnabled();
System.out.println(linkStatus);

//Return Link Name
String linkName = driver.findElement(By.linkText("Gmail")).getText();
System.out.println(linkName);

//Click(Redirects)Link
driver.findElement(By.linkText("Gmail")).click();

Thread.sleep(2000);
driver.close();
}
}
```

***Using 2nd Syntax:***

```
driver.get("https://www.google.com/");  
WebElement gmailLink = driver.findElement(By.linkText("Gmail"));  
  
System.out.println(gmailLink.isDisplayed());  
  
System.out.println(gmailLink.isEnabled());  
  
System.out.println(gmailLink.getText());  
  
gmailLink.click();  
  
Thread.sleep(4000);  
  
driver.close();
```

## **5) Handling Checkbox**

**Manual Actions:**

- Check Displayed Status
- Check Enabled Status
- Check Selected status
  
- Select (Click)
- Unselect (Click)

***Selenium WebDriver Steps:***

```
driver.get("http://www.gcrit.com/build3/create_account.php");
```

```
WebElement checkBox = driver.findElement(By.name("newsletter"));
```

```
//Check the Element Displayed Status  
boolean status = checkBox.isDisplayed();  
System.out.println(status);//true
```

```
//Check the Element Enabled Status  
status = checkBox.isEnabled();  
System.out.println(status);//true
```

```
//Check the Element Selected Status  
status = checkBox.isSelected();  
System.out.println(status);//false
```

```
//Select the Checkbox  
checkBox.click();
```

```
//Check the Element Selected Status  
status = checkBox.isSelected();  
System.out.println(status);//true
```

```
//Select the Checkbox
```

```
checkBox.click();
```

```
//Check the Element Selected Status
```

```
status = checkBox.isSelected();
```

```
System.out.println(status);//false
```

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

## **6) Handling Button**

### **Manual Actions:**

- Check Displayed Status
- Check Enabled Status
  
- Click

### **Selenium WebDriver steps:**

```
driver.get("http://www.gmail.com");
```

```
boolean displayStatus =
```

```
driver.findElement(By.xpath("//*[@id='identifierNext']/content/span")).isDisplayed();
```

```
System.out.println(displayStatus);
```

```
boolean enabledStatus =  
driver.findElement(By.xpath("//*[@id='identifierNext']/content/span")).isEnabled()  
();
```

```
System.out.println(enabledStatus);
```

```
driver.findElement(By.xpath("//*[@id='identifierNext']/content/span")).click()  
();
```

## **7) Radio Button**

### **Manual Actions:**

- Check Displayed Status
- Check Enabled Status
- Check selected Status
  
- Select (Click)

### **Selenium WebDriver Steps:**

```
driver.get("http://www.gcrit.com/build3/create_account.php");
```

```
//Check Display Status
```

```
boolean displayStus = driver.findElement(By.name("gender")).isDisplayed();
```

```
//Check Enabled Status
```

```
boolean enbledStatus = driver.findElement(By.name("gender")).isEnabled();
```

```
//Check Selected Status
boolean selectedStatus =
driver.findElement(By.name("gender")).isSelected();

System.out.println(displayStus);//true
System.out.println(enbledStatus);//true
System.out.println(selectedStatus);//false

//Select the Radio Button
driver.findElement(By.name("gender")).click();

//Check Selected Status
selectedStatus = driver.findElement(By.name("gender")).isSelected();//true
System.out.println(selectedStatus);
```

## **8) Handle Image, Image Button and Image Link**

```
driver.get("http://www.google.com");

//Return Google Image name
String imageName = driver.findElement(By.id("hplogo")).getAttribute("alt");
System.out.println(imageName);

driver.navigate().to("http://newtours.demoaut.com/");
//Click Image Button
driver.findElement(By.name("login")).click();
Thread.sleep(3000);
```

```
driver.navigate().to("https://www.seleniumhq.org/");
Thread.sleep(3000);
//Click Image Link
driver.findElement(By.xpath("//*[@id='choice']/tbody/tr/td[2]/center/a/img
")).click();
}
}
```

## **9) Handle Drop down Box**

### **Manual Actions:**

- Check Displayed Status
- Check Enabled Status
  
- Select an Item
- Return Items Count

### **Selenium WebDriver Steps:**

```
driver.get("http://www.gcrit.com/build3/create_account.php?osCsid=6rqlkh
hibc3d4pvkdt6fafs4s1");
```

```
boolean displayStatus =
driver.findElement(By.name("country")).isDisplayed();
System.out.println(displayStatus);//true
```



```
boolean enabledStatus =  
driver.findElement(By.name("country")).isEnabled();  
System.out.println(enabledStatus);//true
```

```
Select dropdown = new Select (driver.findElement(By.name("country")));  
//dropdown.selectByIndex(6);
```

```
dropdown.selectByVisibleText("India");  
Thread.sleep(4000);
```

```
List <WebElement> e = dropdown.getOptions();  
System.out.println(e.size());  
driver.close();
```