

Selenium Java

Interview Questions And Answers



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Cracking Automation Tester Interview Series

Part #3



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Question #1 : What is Object Repository? How can we create an Object Repository in Selenium?

- Collection of web elements belonging to Application Under Test (AUT) along with their locator values.
- Whenever the element is required within the script, the locator value can be populated from the Object Repository.
- Objects can be stored in an excel sheet, Page Object Class.

Question #2 : How can I read test data from excels?

- You can use the JXL or POI API.
- <https://www.mkyong.com/java/apache-poi-reading-and-writing-excel-file-in-java/>
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Question #3 : What is a Framework?

Its a Set of guidelines, coding standards, concepts, processes, practices, project hierarchies, modularity, reporting mechanism, test data injections etc. to pillar automation testing.

Question #4 : How to capture screenshot in WebDriver?

```
import org.openqa.selenium.TakesScreenshot;  
import org.openqa.selenium.OutputType;  
import org.apache.commons.io.FileUtils;  
  
File scrFile = ((TakesScreenshot)driver).getScreenshotAs(OutputType.FILE);  
// Code to copy the screenshot in the desired location  
FileUtils.copyFile(scrFile, new File("C:\\\\failscast1.jpg"))  
}
```

Question #5 : How to get the Custom attribute value?

```
driver.findElement(By.id("inputid")).getCssValue("font-size");  
driver.findElement(By.id("buttonid")).getAttribute("data");
```

```
<input id="inputid" style="font-size:19px"/>  
<button id="buttonid" data="hello">Button</button>
```

Question #6 : How to Drag and Drop from Ifram1 to 2?

```
driver.switchTo().frame(0);           //Move inside to the frame.  
WebElement body = driver.findElement(By.tagName("body"));  
body.click();  
WebElement from = driver.findElement(By.xpath("//your xpath"));  
Actions act = new Actions(driver);  
act.clickAndHold(from).build().perform();  
Thread.sleep(4000);  
driver.switchTo().defaultContent();   //Move outside to the frame.
```

```
driver.switchTo().frame(1);           //Move inside to another frame.  
WebElement body = driver.findElement(By.tagName("body"));  
body.click();  
WebElement to = driver.findElement(By.id("guide_RIGHT_SAFETY_rect"));  
act.clickAndHold(to).moveToElement(to).release(to).build().perform();  
Thread.sleep(2000);  
driver.switchTo().defaultContent();
```

Question #7 : How can we handle web-based pop-up?

- 1) void dismiss() – The dismiss() method clicks on the “Cancel” button as soon as the pop up window appears.
- 2) void accept() – The accept() method clicks on the “Ok” button as soon as the pop up window appears.
- 3) String getText() – The getText() method returns the text displayed on the alert box.
- 4) void sendKeys(String stringToSend) – The sendKeys() method enters the specified string pattern into the alert box.

Question #8 : What is the difference between `driver.close()` and `driver.quit` command?

`close()`: WebDriver's `close()` method closes the web browser window that the user is currently working on or we can also say the window that is being currently accessed by the WebDriver. The command neither requires any parameter nor does it return any value.

`quit()`: Unlike `close()` method, `quit()` method closes down all the windows that the program has opened. Same as `close()` method, the command neither requires any parameter nor does it return any value.

Question #9 : How to select value in a dropdown?

selectByValue:

```
Select selectByValue = new Select(driver.findElement(By.id("SelectID_One")));  
selectByValue.selectByValue("greenvalue");
```

selectByVisibleText:

```
Select selectByVisibleText = new Select (driver.findElement(By.id("SelectID_Two")));  
selectByVisibleText.selectByVisibleText("Lime");
```

selectByIndex:

```
Select selectByIndex = new Select(driver.findElement(By.id("SelectID_Three")));  
selectByIndex.selectByIndex(2);
```

Question #10 : How to Use Selenium Expected Conditions?

Selenium WebDriver comes with a lot of expected conditions such as:

ExpectedCondition < WebElement > **elementToBeClickable**(By locator)

ExpectedCondition < Boolean > **elementToBeSelected**(By locator)

ExpectedCondition < WebElement > **presenceOfElementLocated**(By locator)

ExpectedCondition < Boolean > **titleContains**(String title)

ExpectedCondition < Boolean > **titleIs**(String title)

ExpectedCondition < Boolean > **urlContains**(String fraction)

ExpectedCondition < Boolean > **urlToBe**(String url)

ExpectedCondition < WebElement > **visibilityOfElementLocated**(By locator)

There are 2 main expected condition types that can be used with explicit waits:

Question #10 : How to Use Selenium Expected Conditions?

```
WebElement searchButton =  
wait.until(elementToBeClickable(searchButtonXpath));  
    searchButton.click();  
  
    if (!wait.until(titleContains(resultsTitle)) ||  
!wait.until(urlContains(resultsUrl)))  
        throw new RuntimeException("results page is not displayed");
```

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