

SELENIUM INTERVIEW QUESTIONS AND ANSWERS (PART 03)

Q: How to capture Screenshot of Full Page?

A: In Selenium WebDriver, you can capture the full-page screenshot using 3rd party tools like AShot. Selenium WebDriver's built-in method takes a screenshot of the visible area only.

```
Screenshot screenshot = new AShot().shootingStrategy(ShootingStrategies.viewportPasting(1000)).takeScreenshot(driver);
ImageIO.write(screenshot.getImage(), "PNG", new File("fullPageScreenshot.png"));
```

Q: How to capture Screenshot of Section of a Web Page?

A: You can capture the screenshot of a particular section of the web page by locating that section and using the WebElement.

```
WebElement section = driver.findElement(By.id("sectionId"));
File screenshot = section.getScreenshotAs(OutputType.FILE);
FileUtils.copyFile(screenshot, new File("sectionScreenshot.png"));
```

Q: How to capture Screenshot of an Element on a Web Page?

A: To capture a screenshot of a specific element, you can use the following code:

```
WebElement element = driver.findElement(By.id("elementId"));
File screenshot = element.getScreenshotAs(OutputType.FILE);
FileUtils.copyFile(screenshot, new File("elementScreenshot.png"));
```

Q: How to capture tooltip of the Web Element?

A: The tooltip can be captured using the "getAttribute()" method for the "title" attribute. Here's the code:

```
WebElement element = driver.findElement(By.id("elementId"));
String tooltip = element.getAttribute("title");
```

Q: How to open a link in a new tab?

A: You can use JavaScript to open a link in a new tab like this:

```
JavascriptExecutor js = (JavascriptExecutor) driver;
js.executeScript("window.open('https://example.com', '_blank');");
```

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Q: How to open URLs in multiple tabs & Windows?

A: You can open URLs in multiple tabs or windows by using JavaScriptExecutor or by using WebDriver commands. Example for multiple tabs:

```
driver.get("https://firstURL.com");  
((JavascriptExecutor) driver).executeScript("window.open('https://secondURL.com', '_blank');");
```

Q: How to capture Size & Location of the WebElement?

A: You can get the size and location of a WebElement like this:

```
WebElement element = driver.findElement(By.id("elementId"));  
Dimension size = element.getSize();  
Point location = element.getLocation();
```

Q: How do you flash an element ?

A: To flash an element, you can use JavaScript to change the background color temporarily:

```
WebElement element = driver.findElement(By.id("elementId"));  
JavascriptExecutor js = (JavascriptExecutor) driver;  
js.executeScript("arguments[0].style.backgroundColor = 'yellow'", element);  
Thread.sleep(100);  
js.executeScript("arguments[0].style.backgroundColor = ''", element);
```

Q: Drawing border & take screenshot of the Element

A: You can draw a border around the element using JavaScript and capture its screenshot:

```
WebElement element = driver.findElement(By.id("elementId"));  
JavascriptExecutor js = (JavascriptExecutor) driver;  
js.executeScript("arguments[0].style.border='3px solid red'", element);  
File screenshot = element.getScreenshotAs(OutputType.FILE);  
FileUtils.copyFile(screenshot, new File("elementScreenshot.png"));
```

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Q: How do you perform click action?

A: To perform a click action, you can use the "click()" method:

```
driver.findElement(By.id("elementId")).click();
```

Q: How to generate an alert?

A: You can generate an alert using JavaScriptExecutor:

```
JavascriptExecutor js = (JavascriptExecutor) driver;  
js.executeScript("alert('This is an alert');");
```

Q: How to refresh the page?

A: You can refresh the page using:

```
driver.navigate().refresh();
```

Q: How to scroll down the page?

A: You can scroll down using JavaScript:

```
JavascriptExecutor js = (JavascriptExecutor) driver;  
js.executeScript("window.scrollTo(0,1000);");
```

Q: How to scroll up the page?

A: To scroll up the page, use:

```
JavascriptExecutor js = (JavascriptExecutor) driver;  
js.executeScript("window.scrollTo(0,-1000);");
```

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Q: How to zoom-In zoom-out the page?

A: You can zoom in or out using JavaScript:

```
JavascriptExecutor js = (JavascriptExecutor) driver;  
js.executeScript("document.body.style.zoom='150%'"); // Zoom in  
js.executeScript("document.body.style.zoom='100%'"); // Reset to normal
```

Q: How to capture cookies from browser?

A: You can capture cookies using:

```
Set<Cookie> cookies = driver.manage().getCookies();
```

Q: How to print cookies from browser?

A: You can print cookies using:

```
Set<Cookie> cookies = driver.manage().getCookies();  
for (Cookie cookie : cookies) {  
    System.out.println(cookie);  
}
```

Q: How to add Cookie to the browser?

A: You can add a cookie using:

```
Cookie cookie = new Cookie("key", "value");  
driver.manage().addCookie(cookie);
```

Q: How to delete specific Cookie from the browser?

A: You can delete a specific cookie by name:

```
driver.manage().deleteCookieNamed("cookieName");
```

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Q: How to delete all Cookies from the browser?

A: You can delete all cookies using:

```
driver.manage().deleteAllCookies();
```

Q: How to download the files using Selenium WebDriver? - Chrome

A: You can set Chrome preferences to download files automatically:

```
HashMap<String, Object> chromePrefs = new HashMap<String, Object>();  
chromePrefs.put("download.default_directory", "/path/to/download");  
ChromeOptions options = new ChromeOptions();  
options.setExperimentalOption("prefs", chromePrefs);  
WebDriver driver = new ChromeDriver(options);
```

Q: How to download the files into the custom directory?

A: Similar to the Chrome example, you can set the default download directory using browser options for each browser.

Q: How to change the download file location using Selenium WebDriver?

A: Modify browser preferences to set the new file download location as shown above.

Q: How to download the embedded PDF file?

A: You can use JavaScript Executor or HTTP client libraries to download embedded PDFs.

Q: How to download the PDF file using Selenium WebDriver?

A: You can automate the download process by setting browser preferences like in the previous examples.

Q: What is Browser Profile in Firefox?

A: Browser Profile in Firefox refers to the custom user settings, like bookmarks, history, and preferences, that Firefox loads when started.

Q: What is Mime Type?

A: Mime type stands for Multipurpose Internet Mail Extensions, which is a standard way of classifying file types on the internet.

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Q: How to upload the file in Selenium WebDriver?

A: You can upload a file using `sendKeys()`:

```
driver.findElement(By.id("uploadElementId")).sendKeys("/path/to/file");
```

Q: What is Robot Class?

A: Robot Class in Selenium is used to simulate keyboard and mouse events. It can be used for various purposes such as handling file upload dialogs, performing keyboard operations, and more.
