



Last updated: Jun 24, 2021

Selenium Java Training - Session 18 - Handling Frames, Lightbox, Actions class and Keys class

Handling Frames

- Demonstrate the problem statement
 - 'NoSuchElementException' will be displayed on trying to find the web element which is displayed in an iframe
 - Enter text into a text field inside the iframe page
- Frame is a web page which is embedded in another web page, and is used to display multiple pages inside a single web page.
 - Developers can also embedded a document to be scrolled inside a frame
- In HTML, <iframe> is the tag used by the Web Developers to display any Frame on the Page.
- View the iframes in www.omayo.blogspot.com page - Right click on the frames and observe that 'This Frame' option will be displayed
- Switch to the required frame and perform operations (View code [here](#))
 - First switch to a frame and enter text into text field inside frame - Using **switchTo().frame(WebElementOfFrame)**
 - Switch back to the main page using **switchTo().defaultContent()** and type text into the 'Search' text box field
- Finding the number of frames available on the page
 - `System.out.println(driver.findElements(By.tagName("iframe")).size());`
- We can switch to the frames using id locator or name locator also
 - `driver.switchTo().frame("idvalue");`
 - `driver.switchTo().frame("namevalue");`

Handling Light-box

- Unlike alerts, frames or windows, we need not switch to Lightbox for performing operations.
 - <http://omayo.blogspot.com/p/lightbox.html>
- Light boxes are part of the same HTML web page only.
- Demonstrate a program which handles the light box - [Demonstrate here](#)

- Hence it is not required to switch to the lightbox for performing operations on it.
- Real time examples for Light-box
 - <https://www.flipkart.com/>

Actions Class

- **Actions** is a predefined Class of Selenium WebDriver
- Actions class contain various predefined methods which can simulate Mouse and Keyboard Events
- The below are the different methods of Actions class which we can use in automation for handling Mouse and keyboard actions:
 - **moveToElement(), click(), perform() and build() methods**
 - Demonstrate moving the mouse to Blogs menu, followed by Selenium143 menu option and clicking it using mouse - [Demonstrate here](#)
 - Optimizing the above program using build().perform() - [Demonstrate here](#)
 - Don't huddle the mouse while handling the mouse actions using Actions class
 - **dragAndDropBy()**
 - Demonstrate dragging and dropping the startButton horizontal to the right - [Demonstrate here](#)
 - Application URL: <http://omayo.blogspot.com/p/page3.html>
 - Demonstrate dragging and dropping the startButton horizontal to the left - [Demonstrate here](#)
 - **contextClick()**
 - Demonstrate right clicking on Search Box field - [Demonstrate here](#)
 - **doubleClick()**
 - Demonstrate double clicking on double click text in the omayo blog - [Demonstrate here](#)
 - **dragAndDrop()**
 - Demonstrate dragging and dropping an element from a location to a different location - [Demonstrate here](#)
 - Application URL: <http://dhtmlgoodies.com/scripts/drag-drop-custom/demo-drag-drop-3.html>
 - **keyDown() and keyUp() methods**
 - Demonstrating opening a link in new tab (Compendium Link on Omayo) - [Demonstrate here](#)
 - **sendKeys()**
 - Demonstrate typing username, then press tab key, entering password and then pressing tab key and pressing enter key - [Demonstrate here](#)
 - Login functionality available at the end of the omayo blog page

Keys Class

- Login using Enter key on <http://tutorialsninja.com/demo/index.php?route=account/login>
 - [Demonstrate here](#)
- Use Keys.chord for pressing multiple keys together

- Enter text into the text area field and clearing it using Ctrl + z keys - [Demonstrate here](#)

By,
Arun Motoori

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