

Selenium WebDriver - Handling Frames

- **Frame** is a web page which is embedded into another web page
- View the iframes in www.omayo.blogspot.com page in firefox browser
 - Right click on the frames and observe that 'This Frame' option will be displayed
 - Most of the times, the pages from the same application will be embedded in the pages
 - These frames which are embedding the pages from same application will be hard to identify as they are designed cleverly.
 - Example: <https://jqueryui.com/datepicker/>
- <iframe> tags will be used for creating frames in html
 - Demonstrate the HTML Page source for the iframes displayed in www.omayo.blogspot.com page
- 'NoSuchElementException' will be displayed on trying to find the web element which is displayed in an iframe - Demonstrate [here](#)
 - Hence whenever we provide proper locator for locating the elements and are not able to locate the elements, frames may be a reason behind it.
- We have to switch to the respective frame in which the web element is available, before performing operations on the web element.
 - **switchTo()**
 - Predefined command of WebDriver interface
 - We have already used it for switching between multiple windows and also to alerts
 - We can also use it for switching between the frames
 - Using **switchTo().frame("IdValueOfFrame")**
 - Demonstrate a program which clicks on a link i.e. 'Hotels' link after switching to the respective frame using its id - Demonstrate [here](#)
 - Demonstrate **switching between multiple frames**
 - Demonstrate switching directly from a frame to a different frame and performing operations - Demonstrate [here](#)
 - We cannot switch directly to a different frame from a frame, as we will get NoSuchElementException
 - Switch directly between frames is not possible, we have to go back to main page and find the next frame
 - switchTo().defaultContent() to be used for switching the control from iframe to main page, before switching to different frame - Demonstrate [here](#)
 - Using **switchTo().frame(WebElementOfFrame)**
 - Demonstrate a program which clicks on a link i.e. 'Hotes' link after switching to the respective frame using specified frame element - Demonstrate [here](#)
 - Using **switchTo().frame(FrameIndex)**
 - Demonstrate using **By.tagName()** for finding elements - Demonstrate [here](#)
 - Check for a tags, print the number of a tags and also print the text of the a tags
 - Check for p tags, print the number of p tags and also print the text of the p tags
 - Check for li tags, print the number of li tags and also print the text of the li tags
 - Demonstrate a program which prints the number of frames in a page - Demonstrate [here](#)
 - Demonstrate a program which identifies whether the element is available on the page using findElements() - Demonstrate [here](#)
 - Demonstrate a program which uses the count of frames identified to identify the frame index in which the required element say 'Hotels' link is available - Demonstrate [here](#)
 - Demonstrate a program which clicks on a link i.e. 'Hotels' link after switching to the respective frame using specified frame index -

Demonstrate [here](#)

- After knowing the frame index from the above program, `switchTo().frame(FrameIndex)` can be used
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