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Handling Multiple Windows - Covers new commands introduced in Selenium 4 (Selenium 4 - Session 16)

Handling multiple windows

- We get NoSuchElementException, if we try to perform operations on a new window,without switching to it during Selenium Automation
- Windows can be opened either as new window or new tab.
- WebDriver interface has two predefined methods **getWindowHandles()** and **switchTo()** , which helps us in handling multiple browser windows.
- **getWindowHandles() -** Used to retrieve all the ids of the currently opened windows (Windows can be popup-windows, windows opened in new tabs etc)
- **switchTo() -** Used to switch between different windows when multiple windows are opened by using the ids of the currently opened windows which are returned by getWindowHandles()
    - Syntax: switchTo().**window**("Retrieved Window ID");
- Writing Programming logic for handling more windows
- Closing active window using close()
- Closing all windows using quit()
- Helper method for handling windows
- From Selenium 4, apart from just switching to new window or tab, we can also create a new window or new tab and then switch to them.
- driver.switchTo().**newWindow**(**WindowType.WINDOW**) - Open new window
- driver.switchTo().**newWindow**(**WindowType.TAB**) - Open new Tab within same window
- We can open multiple applications at the same time and automate, because of this feature.
- Practical Demonstration
- NoSuchWindowException - Practical Demonstration

1. getWindowHandle - Return String Handle of the Current Window
    String mainWindowHandle = driver.getWindowHandle()

2. getWindowHandles() - Return Set of String Handles of All Open Windows:
    Set<String> allWindowHandles = driver.getWindowHandles()

3. switchTo() - Switch to the New Window
    driver.switchTo().window(windowHandle);