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Selenium Java Training - Session 14 - WebDriver - Part 3 (Handling Windows, Alerts, Drop-downs, Multi-Selection Box fields and Waiting Mechanism)

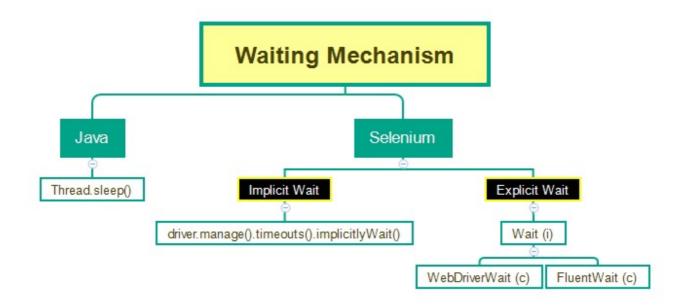
<u>WebDriver - Part 3 (Handling Windows, Alerts, Drop-downs, Multi-Selection Box fields and Waiting Mechanism)</u>

Handling multiple windows

- 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) <u>Demonstrate here</u>
- **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() Demonstrate here
 - Syntax: switchTo().window("Retrieved Window ID");
- Writing Programming logic for handling more windows

Waiting mechanism in Selenium

Waiting mechanism in Selenium and Java can be categorized as below:



- Demonstrate a program which don't use waiting mechanism to understand the importance of waiting mechanism in Selenium <u>Demonstrate here</u>
- Using **Thread.sleep()** in Java to overcome the waiting problems <u>Demonstrate here</u>
- **Implicit Wait** Instead of halting the program till the specified time is reached, Implicit wait will wait for all the web elements dynamically (i.e. Global wait) <u>Demonstrate here</u>
- **Explicit Wait** Instead of waiting for all the statements in the program, Explicit wait will wait only for the specific web element <u>Demonstrate here</u>
 - WebDriverWait wait = new WebDriverWait(driver, 5);
 - WebElement element = wait.until(ExpectedConditions.visibilityOfElementLocated(By.linkText("Facebook")));
 - element.click();
 - Also demonstrate 'ElementToBeClickable' <u>Demonstrate here</u>
- Fluent Wait Use Duration.ofSeconds(30) in the deprecated methods
 - Copy the FluentWait code from Selenium API Documentation
 - Import Function from google.common.base
 - Import NoSuchElementException from selenium

Handling Alerts

- Handle Alerts using the **Alert** Interface <u>Demonstrate here</u>
 - Click on the button to display alert
 - Switch to the displayed alert using switchTo().alert() of WebDriver interface
 - Read the text on the alert using **getText()** method of Alert interface
 - Accept the alert using accept() method of Alert interface
 - After accepting the alert, switch to the main window using **switchTo().defaultContent()**
 - Close the browser window

Handling Drop-down and Multi-selection box fields

- **Select** class is the predefined class in Selenium WebDriver and it has predefined methods for performing various operations on Drop-down and Multi-selection box fields
- Using selectByVisibleText() with a <u>drop-down</u> field to select any value is a dropdown -<u>Demonstrate here</u>
- Using selectByVisibleText() with a <u>Multi-selection box</u> field to select multiple values -<u>Demonstrate here</u>
- Using deselectByVisibleText() with a <u>Multi-selection box</u> field to deselect multiple values -<u>Demonstrate here</u>

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