Selenium & Browser Configurations (Continued)

Selenium Chrome Configurations

- Make sure that you have latest chrome browser before proceeding
- Demonstrate how the logs are displayed in the output console
  - No logs are getting displayed while executing in chrome browser - Demonstrate here
- Disabling the logs in chrome browser from displaying in output console - Demonstrate here
  - System.setProperty(ChromeDriverService.CHROME_DRIVER_SILENT_OUTPUT_PROPERTY,"true");
- Tracking the logs in a separate log file - Demonstrate here
  - Create Logs folder and chrome.log file under it
  - System.setProperty(ChromeDriverService.CHROME_DRIVER_LOG_PROPERTY,
    System.getProperty("user.dir")+"\\Logs\\chrome.log");
- Disable the web notifications
  - Demonstrate how the web notifications display in https://www.jabong.com/
  - Disable the web notifications - Demonstrate here
    - ChromeOptions options = new ChromeOptions();
    - options.addArguments("--disable-notifications");
    - WebDriver driver = new ChromeDriver(options);
- Disable the info bar stating 'Chrome is being controlled by automated test software'
  - Demonstrate how the info bar displays in chrome browser - Demonstrate here
  - Disable the info bar - Demonstrate here
    - ChromeOptions options = new ChromeOptions();
    - options.addArguments("--disable-infobars");
    - WebDriver driver = new ChromeDriver(options);
- Start the chrome in maximized mode
  - By default chrome won't start in maximized mode - Demonstrate here
  - Make chrome start in maximized mode - Demonstrate here
    - ChromeOptions options = new ChromeOptions();
    - options.addArguments("--start-maximized");
    - WebDriver driver = new ChromeDriver(options);
- Proxy Settings
  - Manually setting the proxy settings in the Chrome Browser and run any application in the browser say
    www.tutorialsninja.com/demo/
    - Settings > Advanced > System > Open Proxy Settings > Connections > LAN Settings > Proxy Sever > Select check box and
      enter the Address and Port number
    - Run the application say www.tutorialsninja.com/demo/ in the chrome browser
    - Observe that an error page informing that there is not some problem in connecting to proxy server using the details we
      provided will be displayed
  - To set the proxy setting from the Selenium program, we have to implement the below steps in Selenium - Demonstrate here
    - ChromeOptions options = new ChromeOptions();
    - options.addArguments("--proxy-server=http://192.168.303.3:9293");
    - WebDriver driver = new ChromeDriver(options);
- Profiles
  - In chrome, we can add multiple profiles from Manage people option
  - Lets create three profiles in Chrome, say Arun, Dheeraj and Madhuri apart from the default profile which is already there
  - Default profile is accessing a website say 'Selenium By Arun'
  - Each of the above profiles can be used for browsing different websites from their Profiles simultaneously (Say Arun profile is
    browsing qafox.com, Dheeraj profile is browsing facebook.com and Madhuri profile is browsing linkedin)
  - Using Selenium to launch the default profile - Demonstrate here
    - Trigger chrome://version/ in the URL field of chrome browser to get the path of the default profile
    - Ignore the Default folder name from the above path
    - Make sure that there is no other chrome browser instance opened (Close all browsers instances of chrome before executing
      the selenium code)
    - options.addArguments("user-data-dir=C:\\Users\\arunm\\AppData\\Local\\Google\\Chrome\\User Data\\");
    - WebDriver driver = new ChromeDriver(options);
  - Using Selenium to launch any specific profile say Arun - Demonstrate here
    - Open chrome browser and select the profile say 'Arun'
    - Trigger chrome://version/ in the URL field of chrome browser to get the path of the Arun profile
    - Navigate to the Arun profile path and create a Default folder and move all the files under the profile folder to Default folder
    - Close all the Chrome Browser instances running on your machine before executing the Selenium script
    - options.addArguments("user-data-dir=C:\\Users\\arunm\\AppData\\Local\\Google\\Chrome\\User Data\\Profile 1\\");
    - Similarly create Default folders for other profiles and demonstrate how the specific profiles can be opened in the Chrome
      Browser
  - Delete the newly created profiles and the Profiles folders generated by Google Chrome at the above locations
- Certificates
  - Demonstrate opening the application which is not SSL Certified using **HTTP** protocol - Demonstrate via Manually
    Browsing http://www.cacert.org/ here
  - Demonstrate opening the application which is not SSL Certified using **HTTPS** protocol - Demonstrate via Manually
    Browsing https://www.cacert.org/ here
  - Chrome browser is by default handling the certificate errors - Demonstrate here
- Page Load Strategy
  - EAGER Strategy - Not Yet Implemented
    - When you run the code with Eager strategy, you will get an **exception saying it is not yet implemented** - Demonstrate
      here
      - options.setPageLoadStrategy(PageLoadStrategy.EAGER);
      - WebDriver driver = new ChromeDriver(options);
- When Selenium is unable to find the exe file of Chrome in your machine - Demonstrate here

  - options.setBinary("C:\\Program Files (x86)\\Google\\Chrome\\Application\\chrome.exe");

Selenium IE Configurations

- Make sure that you have latest IE browser before proceeding with the below things done:
    - Check whether all the security zones are enabled
    - Check whether the zoom % of the browser is set to 100%
- Tracking the logs in a separate log file - Demonstrate here
    - Create Logs folder and ie.log file under it
    - System.setProperty(InternetExplorerDriverService.IE_DRIVER_LOGLEVEL_PROPERTY,"INFO");
    - System.setProperty(InternetExplorerDriverService.IE_DRIVER_LOGFILE_PROPERTY,System.getProperty("user.dir")+"\\Logs\\ie.log");
- Page Load Strategy
    - Not supported by IE
- Binary file path i.e. exe file path of IE
    - Not supported by IE
- Notifications
    - Notifications are not supported by IE, hence not required
- Proxy Settings
    - Don't demonstrate as it can stop the recording
    - Demonstrate setting the proxy - Demonstrate here
    - After the execution of selenium script, you can see the modified proxy settings here -> Settings > Proxy Settings
- Certificates
    - Demonstrate opening the application which is not SSL Certified using **HTTP** protocol - Demonstrate via Manually Browsing http://www.cacert.org/ here
    - Demonstrate opening the application which is not SSL Certified using **HTTPS** protocol - Demonstrate via Manually Browsing https://www.cacert.org/ here
    - Demonstrate using Selenium
        - Demonstrate the Certificate error - Demonstrate here
        - Demonstrate overcoming the Certificate error - Demonstrate here
            - driver.get("javascript:document.getElementById('overridelink').click();");