Week 5 Day 2 Extension & Research

1. *What is the difference between .close() and .quit() in different scenarios?*

.close() will close down the current window or tab selected, however will allow the session to continue onwards.

.quit() will close all active browser windows/tabs opened by this webdriver and end the session.

1. *How does Selenium handle multiple browser windows?*

Selenium handles multiple browser windows by utilising the getWindowHandles() to switch between windows based on the unique id each tab or window will have associated. This allows to switch as necessary.

1. *What are the alternatives to .navigate().to()?*

Driver.get() is primarily designed for getting and loading new URLs. It clears the session state with each use and so will not retain data or cookies as seamlessly.

Driver.navigate() is more versatile overall, with a variety of options to use within it, including navigate().to() which is better used when having to test navigation states and fully preserves the session state and data

1. *What is the difference between findElement() and findElements()?*

findElement() is used to find a single matching element using the required information provided and looks for an exact match, or a partial match based on input information, however will try to select only a single element and in the case there is more than one, will select the first of them.

findElements() is used to find all matching elements using the required information provided and looks for an exact match, or a partial match based on input information, it will store the found elements in a list format which can be iterated through.

If the locators do not match anything, they will return an NoSuchElementFound Exception.

1. *Selenium Manager (Selenium 4.6+)*

Selenium Manager is used to automate browser management, checking the browser(s) that are intended to be used and check the browser version and driver version. Whilst also manage browser and driver releases to be used as necessary. This allows for less need of expert staff in ensuring that specific browsers and cache and driver are setup as needed for each instance or new release.