**Instructions & Notes**

**Setup:**

This is just a quick intro on setup for these tests. The ChromeDriver.exe file will be included in the files I have sent. Wherever you install/copy this to, please copy the path in my test file to this folder.

This is referenced on line 30 of my KneatTests java file:

System.setProperty("webdriver.chrome.driver", "C:\\Users\\diarm\\Documents\\Selenium\\chromedriver.exe");

The above C drive location – please change that to wherever you copy the driver to.

**Running:**

I’m going to assume you won’t need much instruction here. Simply open the java file in eclipse (or other IDE) and right-click → Run as → Junit Test.

The tests should run without issue.

**Walkthrough & Notes:**

Before I began writing the code for these tests, I first navigated to Booking.com and performed the instructions manually. This gave me a rough idea of how many different elements on the webpage needed to be manipulated and what that may involve.

I right-clicked while on the Booking.com page and selected ‘inspect’ to display the debug console and view the HTML tags and to locate the exact piece of code needed for every element that I used. The first thing I did was find the location/’Where are you going?’ box element - just driver.findElement(By.*id*("ss")); - and send the word ‘Limerick’ to it.

The second thing I did was write a piece of code to accept and dismiss that annoying cookie popup that was taking up a quarter of the page.

The ‘Check-In’ box was a bit more difficult. It would have been straightforward enough to just use the Calendar class in java, but I wanted to try and use Selenium as much as I could for this program. I found today’s date on the calendar by using ‘By.*cssSelector*("td[class='bui-calendar\_\_date bui-calendar\_\_date—today']")’ - this would always bring me to the element that was highlighted for today’s date. To return the full date, I had to use ‘getAttribute’.

I had to manipulate the date carefully. The format was ‘2020-07-16’ and even increasing the month by 3 (3 months from today) required me convert the substring ‘07’ to an int which became ‘7’, add 3, convert it back to a string and add it back to the date format. To further complicate matters, I had to perform checks on whether the month’s value was less than 7 and if so, to add on a ‘0’. This sounds mad, but the date needed to be ‘2020-07-16’ and not ‘2020-7-16’ which wouldn’t work. Also, if the current month was October, November or December (10, 11 or 12) I would have to roll the month into next year to become January, February or March – which also affected the ‘year’ part of the date.

The only part of the Calendar choosing function I haven’t coded is if the current date is the 31st and 3 months from now the last day of the month is the 30th – and don’t even get me started on February.

The 2 adults 1 room option was already preselected so I didn’t need to manipulate it, after that I just needed to click the search button.

I have written a number of tests...

I have written assertions that will detect whether some hotels are visible or not after filtering the results, but please take note of the bug I found on the Booking.com website.

**Bug:**

\*I did notice one thing - a bug on the Booking.com website. When running Chrome in the test window or incognito mode (which is similar to the test browser window), one of the filter links did not work properly. As shown in the attached screenshot ‘Discrepancy 2’, sometimes the ‘Show more’ link will be replaced by ‘Show all 13’ - this seems to occur intermittently and at random.

It is a requirement of the ‘Kneat Automation Code Challenge’ to select the ‘Sauna’ filter and check the resulting list for specific hotel names. This cannot be accomplished if the ‘Show all 13’ link has loaded as none of the 13 filter options presented are ‘Sauna’.

The ‘Sauna’ option does sometimes appear under the ‘Fun things to do’ filter heading, but this is also intermittent and at random.

For more detail on this bug – please see the Bug Report I wrote.

I have altered my program to detect the broken ‘Show all 13’ filter and to immediately close the test with a message.

If the ‘Show more’ link loads instead, my program should also detect this and click on it – and my test will continue.

I can only ask that whoever is testing my program to please re-run the ‘saunaFilter’ test a few times – until the ‘Show more’ link appears and the test works as expected.