

Assignment One Report COMP212

Third Party Libraries:

For this assignment I used a third party library for the JQuery date-picker widget. I downloaded the themes and the user interface for the widget from www.jqueryui.com, however I implemented it within the application myself.

JSLint:

The options I had selected when running my JavaScript files through JSLint where:

- "a browser"
- "for statement"
- "this"

I selected these options because the JavaScript was acting within a browser, I had "for" statements in multiple files, and I used the keyword "this" throughout my code.

The global variables I stated where:

- "\$"
- "Cookie"
- "alert"
- "window"

I stated these as my global variables because I used JQuery, hence the dollar sign. Cookie needed to be a global variable as I referred to it when creating and getting cookies (the cookies last until the browser is closed completely). Alert is needed as I used an alert to prompt the user to do something as part of my validation. Finally window, in one of my setup functions I call methods when the window is loaded.

JSLint Errors:

"findRooms.js" gave me a few JSLint error which I couldn't get round, my JavaScript still works as intended but here are the errors;

- *Unexpected '<'. if (cnfInDate <= penInDate < cnfOutDate || cnfInDate < penOutDate <= cnfOutDate) {*
- *Unexpected '<='. if (cnfInDate <= penInDate < cnfOutDate || cnfInDate < penOutDate <= cnfOutDate) {*
- *Undeclared 'Booking'. Booking.setup(bookedRooms);*

Testing:

Whilst developing my application I constantly tested the behavior of operations and compared it to what I considered to be the desirable behavior. If this differed to what I wanted, I debugged and changed things until it worked how I wanted it to work. A big part of my testing happened when I created my validation script, this script handles things like checking that the input is a number/letter given what the input is asking for. This ensures that when bookings are made, the information provided by the user is sensible. Once all my validation checks were implemented I tried to break it or “find a loose end”. Once I was satisfied that I had covered everything I could think of, I let a class mate have a go at trying to produce some sort of undesirable behavior out of my application, when they couldn’t I considered my application to be somewhat well tested given the circumstances. I’d say testing was the most time consuming part of this assignment as it prompted me to fix and change things constantly until they behaved as desired. All my html files validated as well as my CSS style sheet file.

Outstanding Issues:

I have one issue/error with my application; it’s the forming of XML files. In Firefox the XML displays perfectly, but in the console a “not well-formed” error occurs. Note that this occurred in the labs too. But in Chrome the XML will not load at all (something to do with Chrome not loading local XML when viewing HTML locally). I believe this is a known and common issue affecting other students other than myself. Safari works fine.

Enhancements:

One enhancement to my web application that is featured on the admin.html is a filtered search for the confirmed bookings. A staff member can enter a room number and a name into the search fields and the list of confirmed bookings will change to only show the bookings matching the search criteria.

Another feature of this searching is the reset button, if clicked this will clear all input textboxes and show the whole list of confirmed bookings.