

Third party code and libraries

I have used leaflet library for interactive map and jQuery library for easy implementation of javascript that I used in the labs.

I downloaded all the images from <https://www.pexels.com>, to get free photos.

JSHint

I have chosen JSHint for JavaScript validation, as it is highly configurable. I selected the following options from JSHint:

- ❖ “warn about using bitwise operators” as I wanted JSHint to warn me if I used any bitwise operators.
- ❖ “block omit {}”: To get a warning if I missed any curly brackets. It was very helpful as JSHint will throw an error on the editor itself.
- ❖ “Unsafe comparisons”: To get a warning as I wrong comparison for a statement.
- ❖ “Arguments.caller and .callee”: To prohibits the use of arguments.caller and arguments.callee.
- ❖ “Empty blocks”: To check against empty blocks as it will crash JavaScript.
- ❖ “new usage for side effects”: To prohibits the use of constructor functions for side-effects.
- ❖ “Variable undefined”: To get a warning for undefined variables as they crash JavaScript as well. And also unused variable need to remove as they are of no use.

Testing of application

- Throughout working on my assignment I have used W3C HTML and CSS validator to check and validate my HTML and CSS file. Except for bookroom.html, I am getting this warning - “The date input type is not supported in all browsers. Please be sure to test, and consider using a polyfill. I could fix it by manually creating Date input, but I thought it will be more easier to use Javascript Datepicker library to fix this problem.
- To check the javascript file I have used JSHint and also frequently used, browser console to test what output I am getting. When extracting data from XML files, console was very useful, to check the output after calling my function.
- To test user input for check in and check out date, I created a validator.js page to warn the user in the various scenario of entering a date. Such as user:-
 - can't leave check-in and check-out date empty.
 - can't choose same check-in and check-out date.
 - check-in date can't be greater than check-out date.
 - can't leave name input empty.

Problems

The main problem I found is that my date inputs are not working on safari, it appears as blank text input. Whereas on other browsers my date inputs are coming perfectly. I did some googling and found that easiest way to fix it is by using Javascript Datepicker. But in this assignment, use of other library is not permitted. This is the link which I found that all browser didn't support date input - https://developer.mozilla.org/en-US/docs/Web/HTML/Element/input/date#Browser_compatibility.

Another problem was that if the same person wants to book another room, the pending booking is not showing its previous booking. Only recent booking was shown once book room button was clicked. I am not sure how to implement it at the moment, so I left as it is.

Enhancement

Not sure, If it's counted as an enhancement; I have center map functions in map.js, to center the map when a marker is clicked. This is similar to lab-8.