Date: 7th June 2021

I hereby declare that the below work is completely my own.

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ISCG6420 Internet & Website Development

Semester 1, 2021

Project 2: Booking System Documentation

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1.0 Introduction

Project 2 for ISCG6420 Internet and Website Development requires the creation of three website pages, along with links to the accompanying documentation, for a fictional business – Piha Holiday Lodges.

The first page is the index / landing page, which can be found at
http://dochyper.unitec.ac.nz/iwd21s1/1834/kimk72iwd/project2_AK1/index.html

The second page is an online Booking Reservation System using XML as external storage. The Book a Lodge page can be viewed at
http://dochyper.unitec.ac.nz/iwd21s1/1834/kimk72iwd/project2_AK1/booking.html

Finally, the third parge of the assignment is an Interactive Game using keyboard buttons to move a character around who catches worms on a beach. The Game page can be viewed here:
http://dochyper.unitec.ac.nz/iwd21s1/1834/kimk72iwd/project2_AK1/assignment2.html

This documentation concerns itself with the second page of the website – the online Booking Reservation System.

2.0 Wireframes

2.1 Index Page

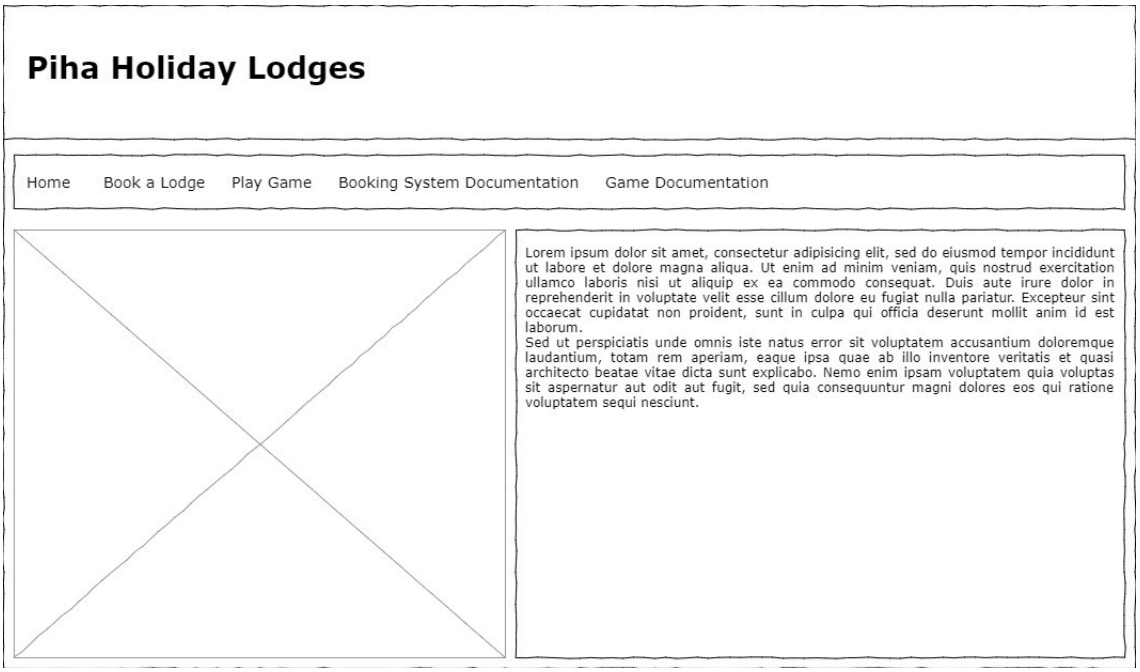


Figure 1: Wireframe for index page for Piha Holiday Lodges website

2.2 Book A Lodge Page

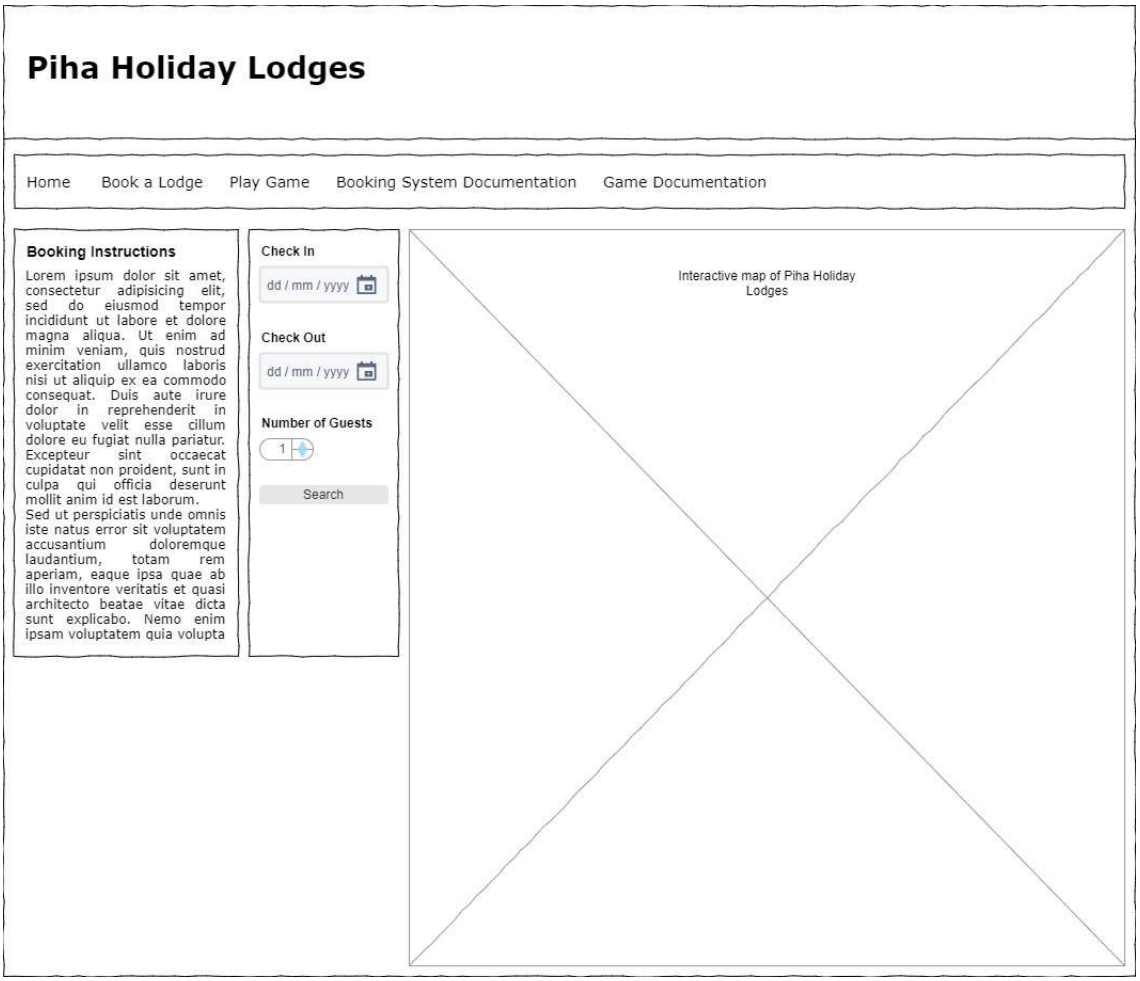


Figure 2: Wireframe for Book a Lodge page for Piha Holiday Lodges website

2.2.1 Lodge Details Modal

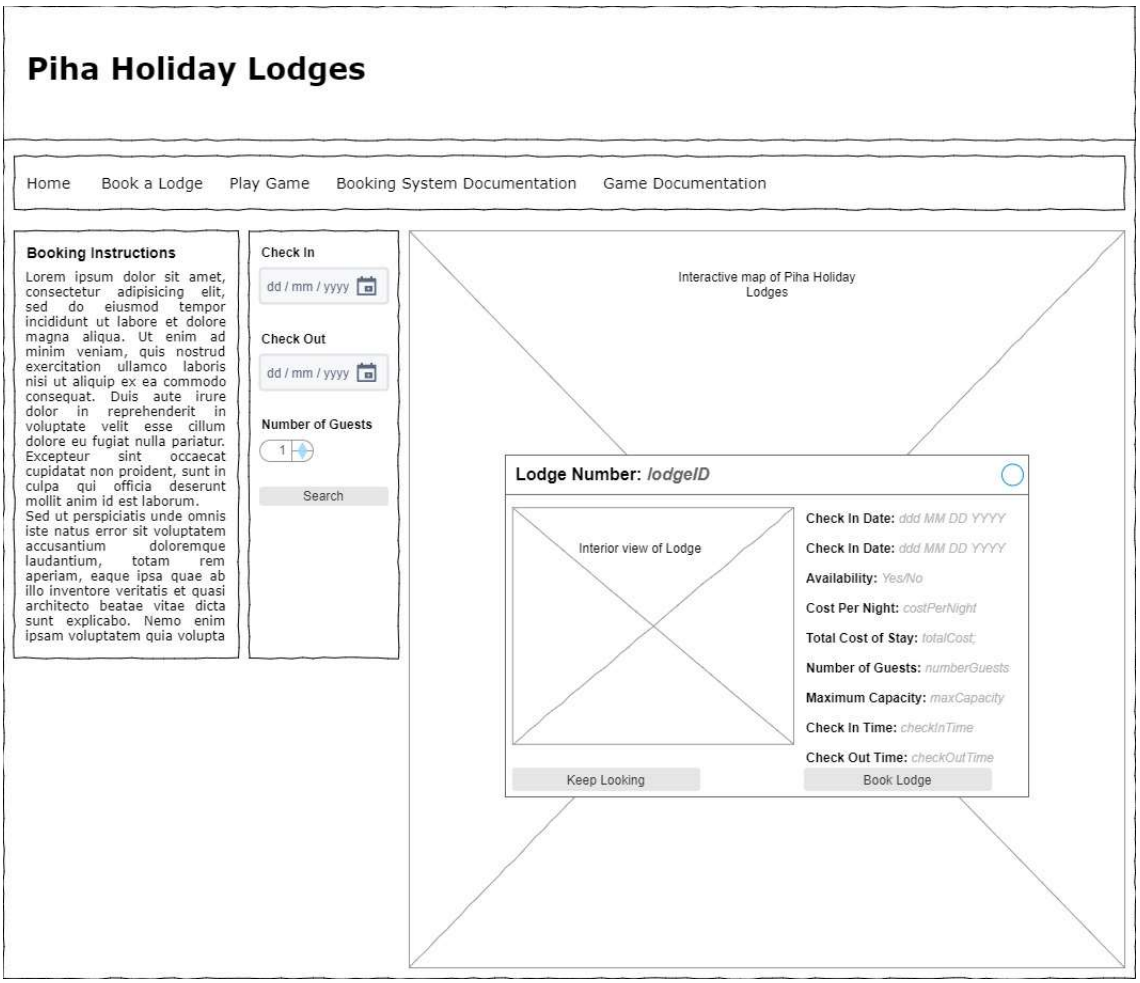


Figure 3: Wireframe for Lodge Information modal on Book a Lodge page for Piha Holiday Lodges website

2.2.2 Booking Summary Modal

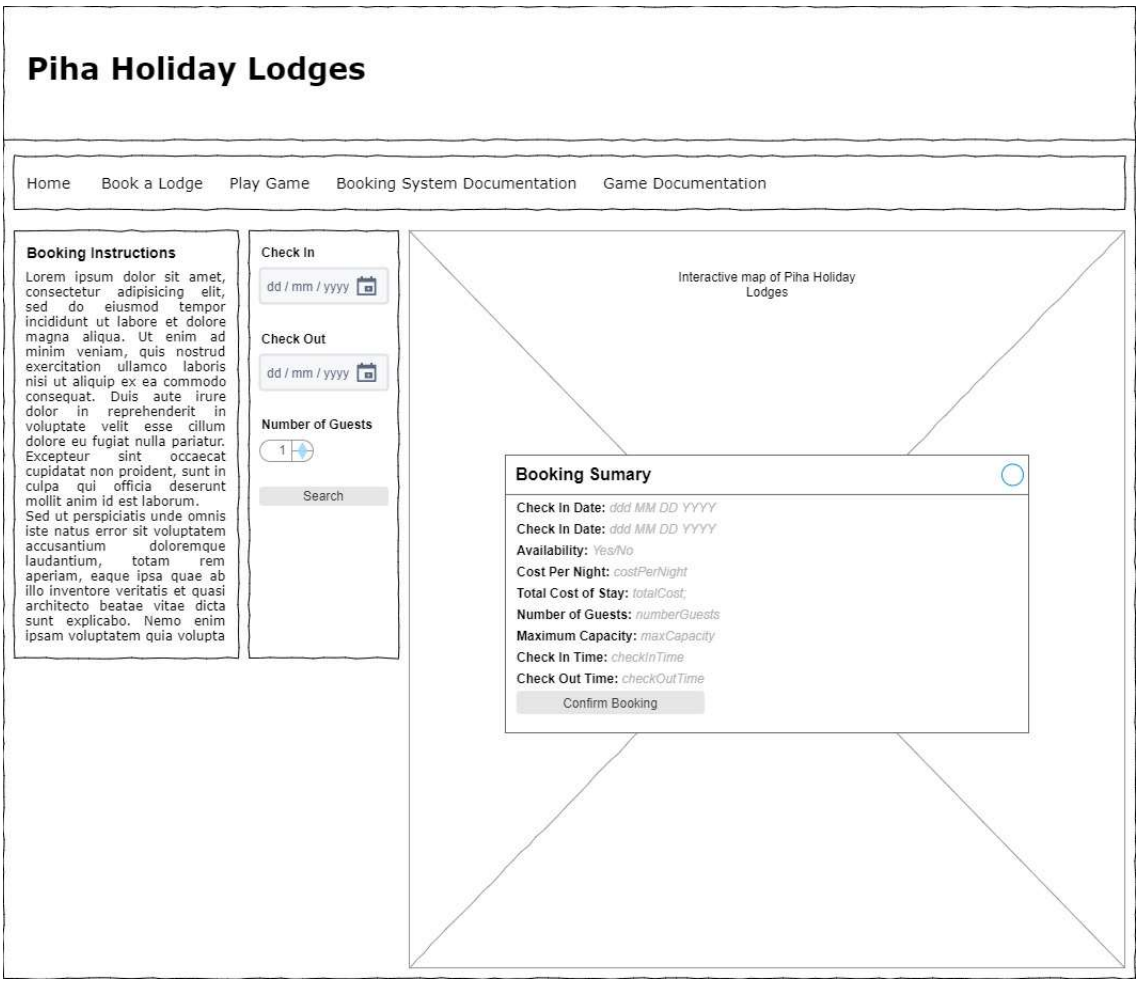


Figure 4: Wireframe for Booking Summary modal on Book a Lodge page for Piha Holiday Lodges website

5.2.3 Booking Confirmation Modal

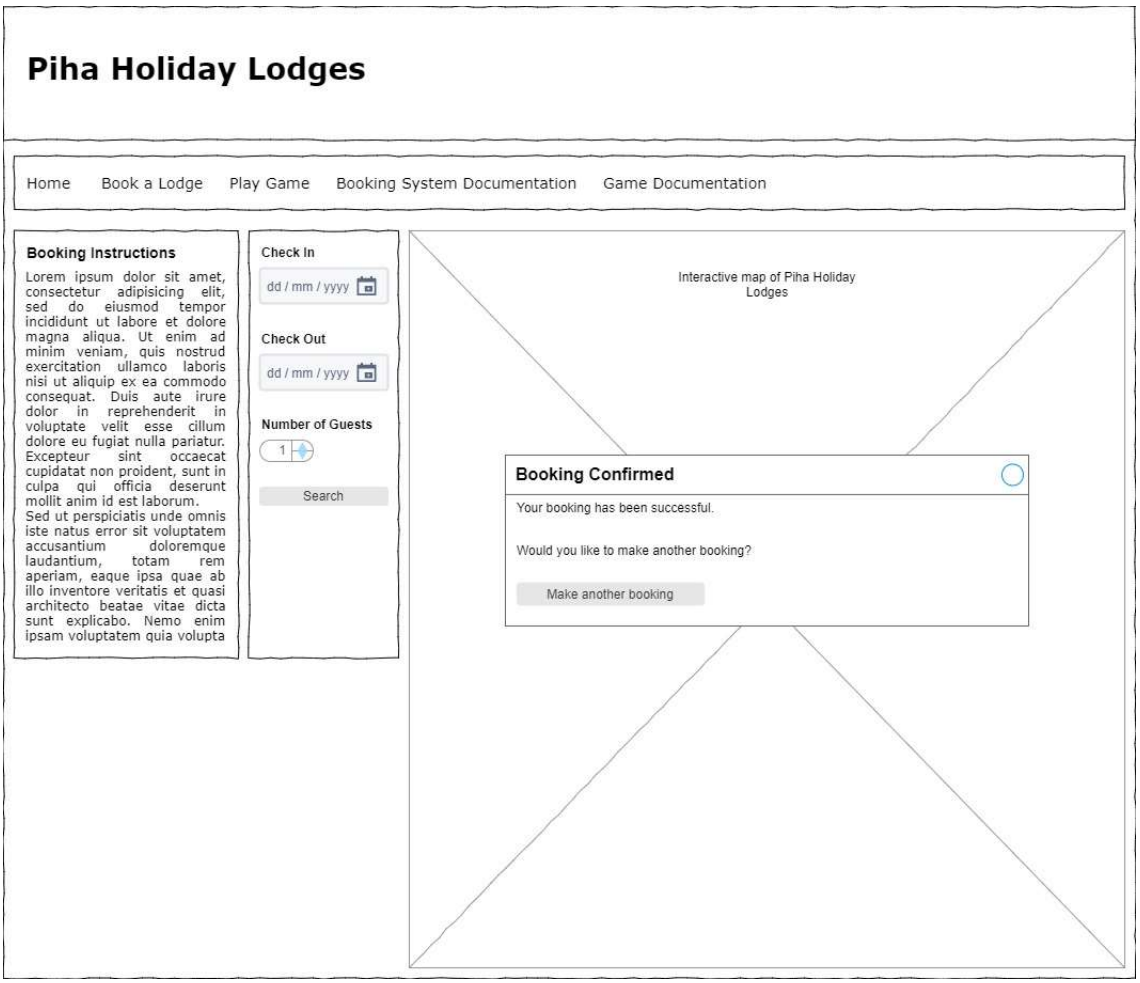
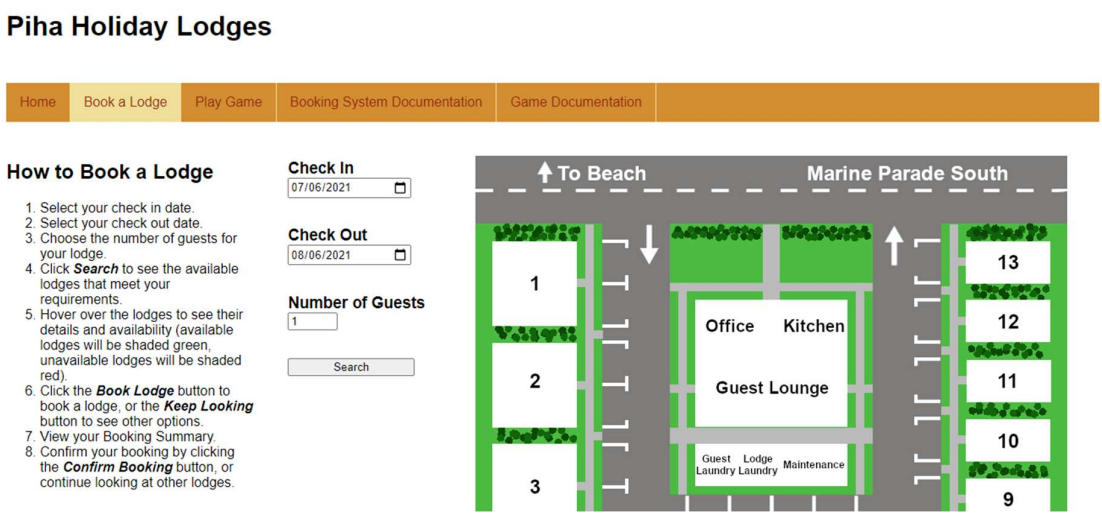


Figure 5: Wireframe for Booking Confirmation modal on Book a Lodge page for Piha Holiday Lodges website

3.0 Booking System Instructions

The Booking System instructions are displayed on the right side of the Book a Lodge page, as below:



The instructions, themselves, read:

1. Select your check in date.
2. Select your check out date.
3. Choose the number of guests for your lodge.
4. Click ***Search*** to see the available lodges that meet your requirements.
5. Hover over the lodges to see their details and availability (available lodges will be shaded green, unavailable lodges will be shaded red).
6. Click the ***Book Lodge*** button to book a lodge, or the ***Keep Looking*** button to see other options.
7. View your Booking Summary.
8. Confirm your booking by clicking the ***Confirm Booking*** button, or continue looking at other lodges.

4.0 XML Data Dictionaries

The booking system makes use of two XML documents. One to store data on the lodges and the other to store data on current bookings.

4.1 Lodge Information XML Document

The Lodge Information XML document contains all the information about the lodges at Piha Holiday Lodges: their capacity, price per night, check in and check out times, interior images and specifications relating to their position on the property map.

The XML document can be viewed at:
http://dochyper.unitec.ac.nz/iwd21s1/1834/kimk72iwd/project2_AK1/Xml/lodgeInformation.xml

Each Lodge entry contains the below information:

Field Name	Data Type	Description	Example
Name	Number	The Lodge Number, the Primary Key.	1
MaxCapacity	Number	The maximum number of guests the lodge can accommodate.	4
NightlyRate	Number	The amount of money charged per night for the lodge.	150
CheckInTime	Text	The earliest the lodge is available for guests to check in.	3:00pm
CheckOutTime	Text	The latest guests are allowed to check out of the lodge.	10:00am
Image	Text	The file name for an image containing an interior view of the lodge.	lodgeCapacity4.jpg
ImageX	Number	The X co-ordinate (in pixels) of the lodge's left-most point on the map of Piha Holiday Lodges.	20
ImageY	Number	The Y co-ordinate (in pixels) of the lodge's top-most point on the map of Piha Holiday Lodges.	100
ImageWidth	Number	The width (in pixels) that the lodge takes up on the map of Piha Holiday Lodges.	100
ImageHeight	Number	The height (in pixels) that the lodge takes up on the map of Piha Holiday Lodges.	100

Figure 6: Data Dictionary for lodgeInformation.xml file

4.2 Current Bookings XML Document

The second XML document contains information specific to current bookings including: a reference number, lodge number, check in and out date, and agreed per night cost and total cost.

The document can be viewed here:
http://dochyper.unitec.ac.nz/iwd21s1/1834/kimk72iwd/project2_AK1/Xml/currentBookings.xml

Each Booking entry contains the below information:

Field Name	Data Type	Description	Example
Reference	Text	The booking's Reference Number, the Primary Key. It is made up of the Lodge Number and the Check In Date in L-YYYY-MM-DD format (L represents the Lodge Number).	6-2021-07-05
LodgeNumber	Number	The number of the lodge booked.	6
CheckInDate	Text	The date that the booking's guests will check in (in full string format).	Mon Jul 05 2021 15:00:00 GMT+1200 (New Zealand Standard Time)
CheckOutDate	Text	The date that the booking's guests will check out (in full string format).	Sat Jul 10 2021 10:00:00 GMT+1200 (New Zealand Standard Time)
AgreedNightlyRate	Number	The Nightly Rate at the time of booking.	225
TotalCost	Number	The total cost of the Booking.	1125
NumberOfGuests	Number	The number of guests who have applied to stay in the lodge.	5

Figure 7: Data Dictionary for currentBookings.xml file

5.0 Testing

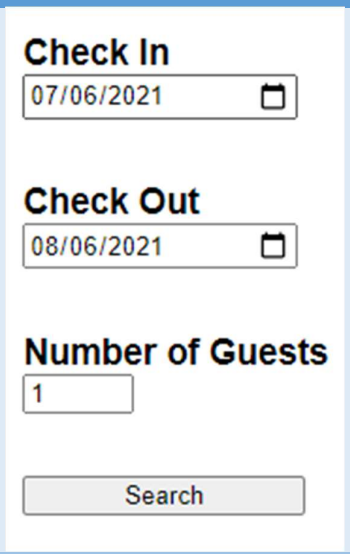
5.1 Date Pickers

5.1.1 Onload Date

Requirement To Test:
Upon opening the page, the Check In Date Picker will automatically populate with today's date and the Check Out Date Picker will automatically populate with tomorrow's date.

Test Data Input / User Action:
Open page _____.
Nb tests were conducted on the 7th of June 2021.

Expected Outcomes:

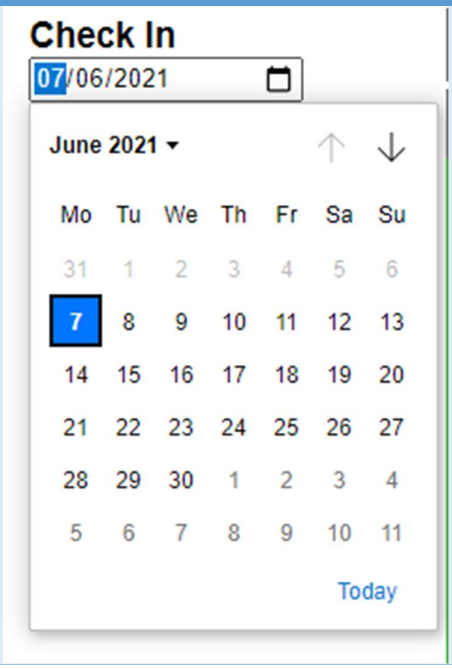


Pass / Fail / Actual Outcome:
Pass

5.1.2 Previous Dates

Requirement To Test:
Upon clicking the calendar icon on the Check In Date Picker, days prior to today's date are unable to be selected.

Test Data Input / User Action:
1. Click the calendar icon on the Check In Date Picker.
2. Attempt to select the date :5th June 2021.

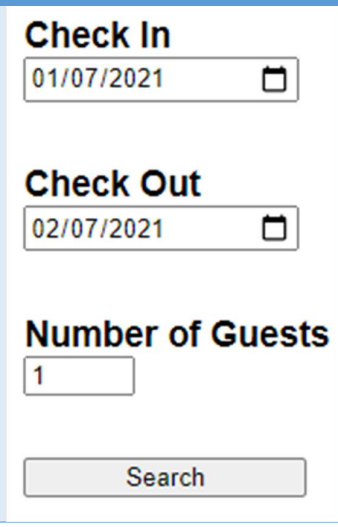
Expected Outcomes:


Pass / Fail / Actual Outcome:
Pass

5.1.3 Date Change

Requirement To Test:
Upon selecting a date in the Check In Date Picker, the Check Out Date Picker will automatically populate with the following day's date.

Test Data Input / User Action:
1. Click the calendar icon on the Check In Date Picker.
2. Select 1st July 2021.

Expected Outcomes:


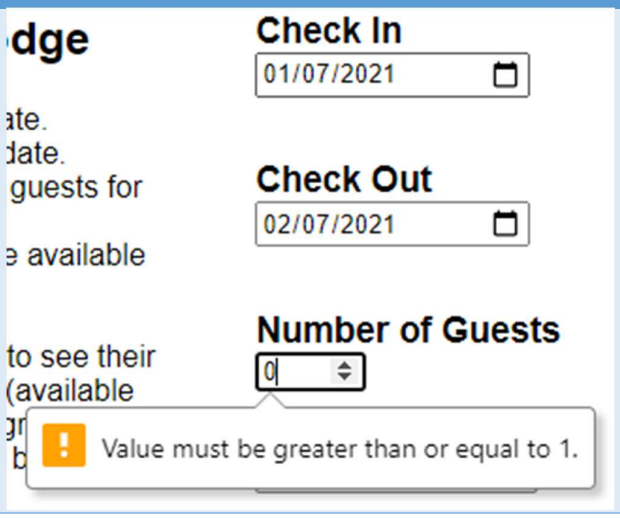
Pass / Fail / Actual Outcome:
Pass

5.2 Number Picker

5.2.1 Minimum Number

Requirement To Test:
The minimum number of guests able to be selected is 1.

Test Data Input / User Action:
Enter the number “0” into the Capacity Number Picker.

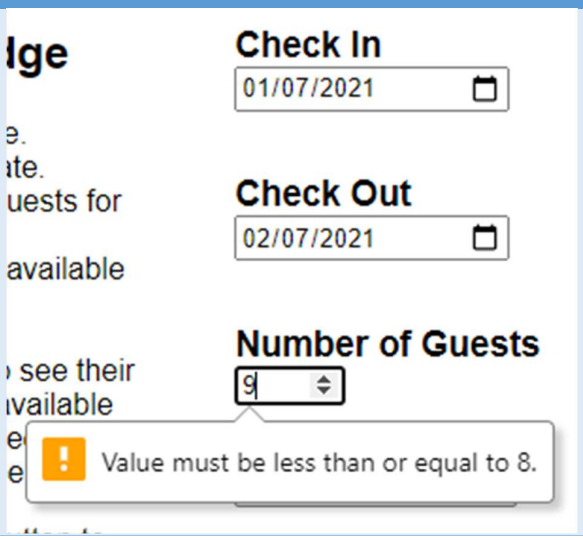
Expected Outcomes:


Pass / Fail / Actual Outcome:
Pass

5.2.1 Maximum Number

Requirement To Test:
The maximum number of guests able to be selected is 8.

Test Data Input / User Action:
Enter the number “9” into the Capacity Number Picker.

Expected Outcomes:


Pass / Fail / Actual Outcome:
Pass

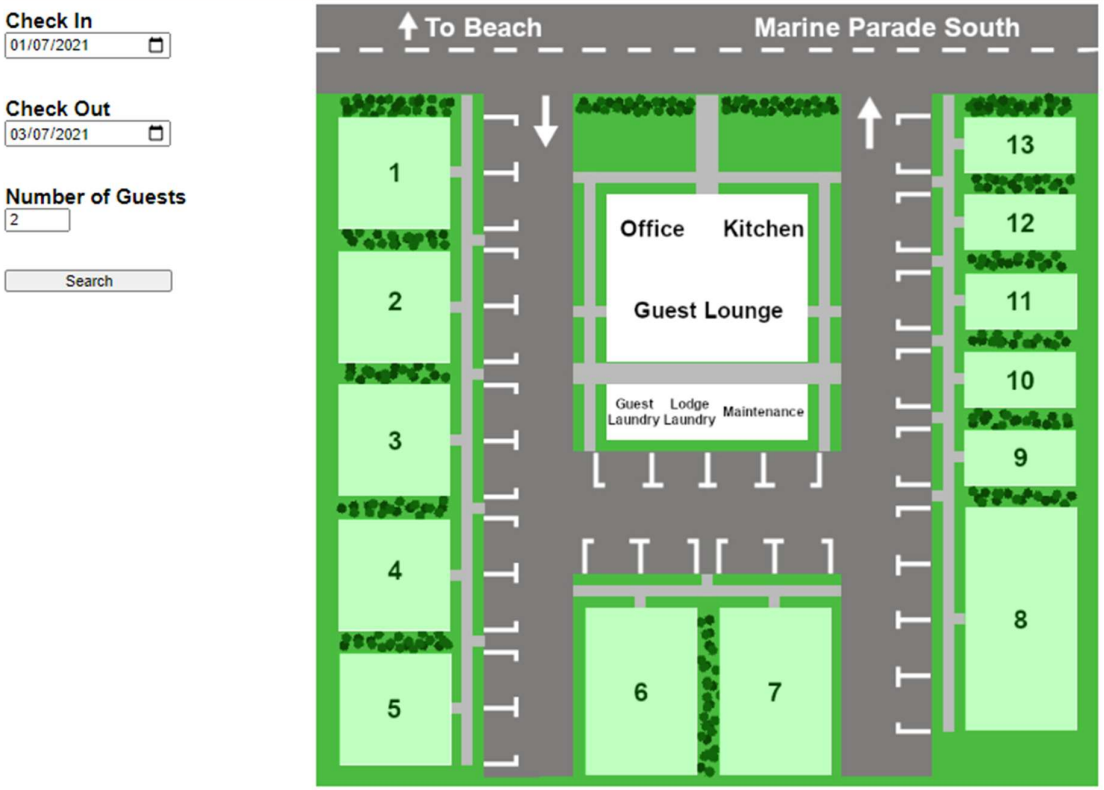
5.3 Canvas

5.3.1 All Lodges Available

Requirement To Test:
Any available lodge will be shaded green

Test Data Input / User Action:
1. Enter the Check In Date: 1st July 2021
2. Enter the Check In Date: 3rd July 2021
3. Enter Capacity: 2
4. Click “Search” button.

Expected Outcomes:



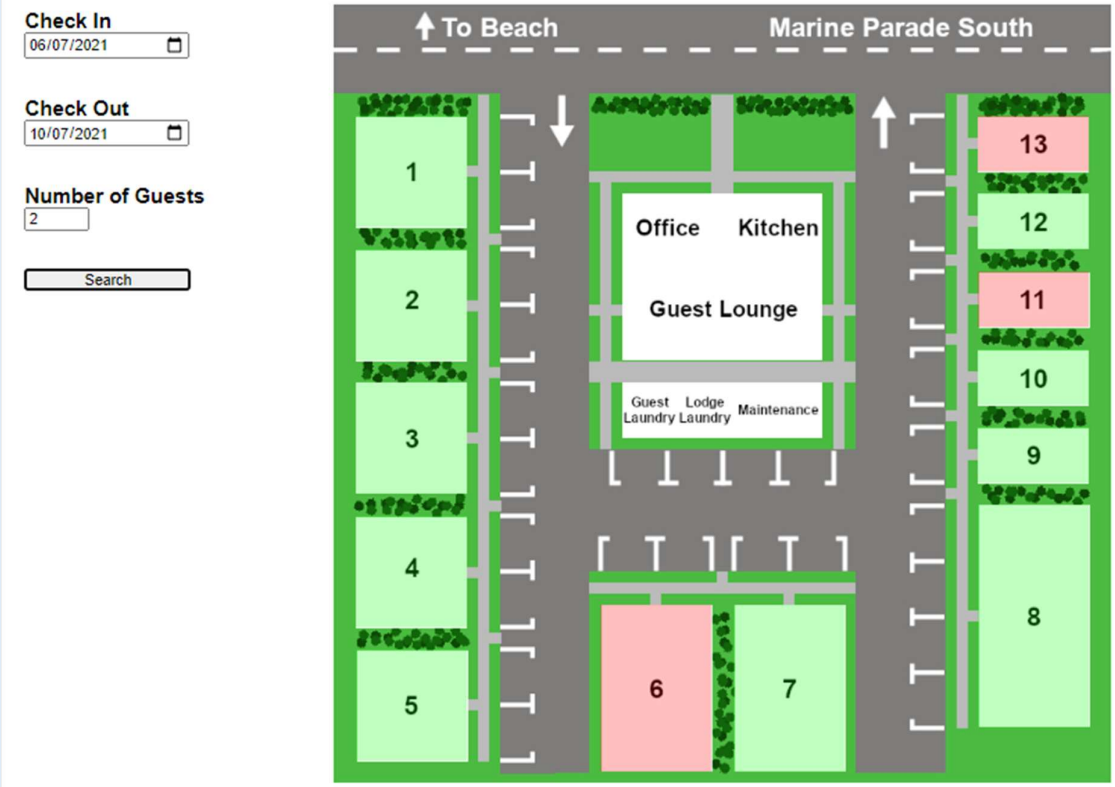
Pass / Fail / Actual Outcome:
Pass

5.3.2 Some Lodges Available

Requirement To Test:
Any lodge which is already booked is unavailable for viewing. Any available lodge will be shaded green. Any unavailable lodge will be shaded red.

Test Data Input / User Action:
1. Enter the Check In Date: 6th July 2021
2. Enter the Check In Date: 10th July 2021
3. Enter Capacity: 2
4. Click “Search” button.

Expected Outcomes:



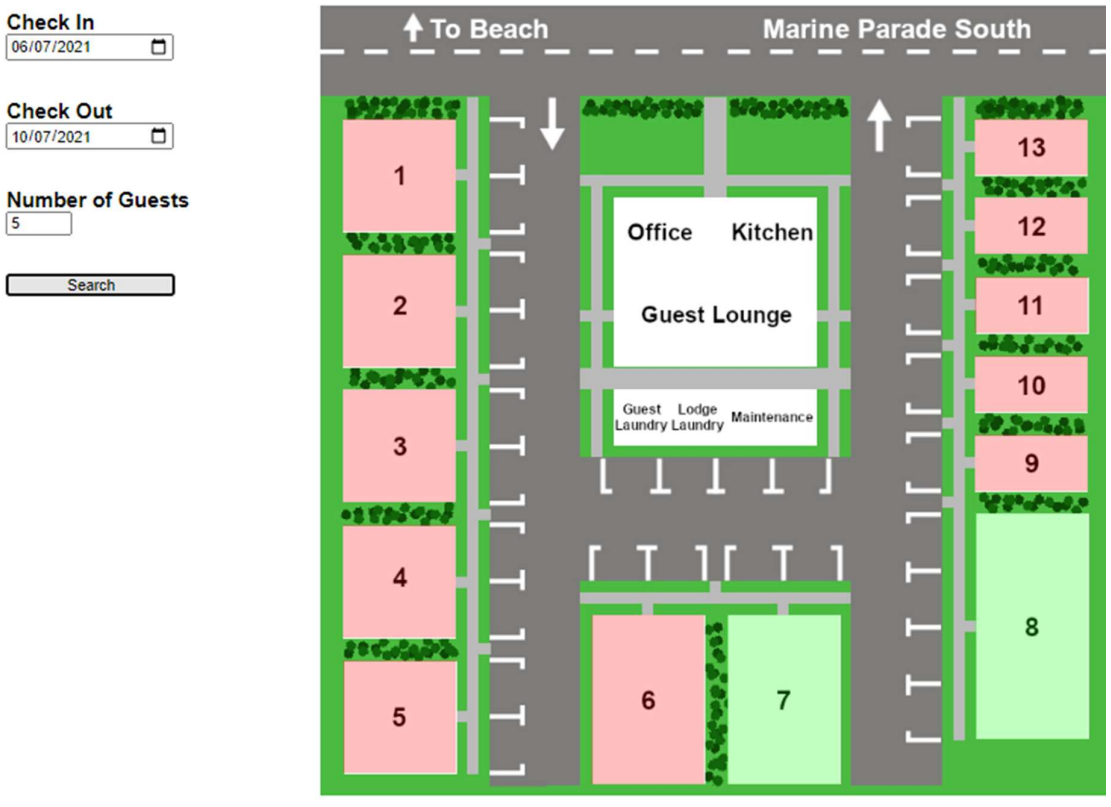
Pass / Fail / Actual Outcome:
Pass

5.3.3 Smaller Lodges Unavailable

Requirement To Test:
A booking cannot be made for a lodge that cannot accommodate the required number of guests, or is already booked. Any available lodge will be shaded green. Any unavailable lodge will be shaded red.

Test Data Input / User Action:
1. Enter the Check In Date: 6th July 2021
2. Enter the Check In Date: 10th July 2021
3. Enter Capacity: 5
4. Click “Search” button.

Expected Outcomes:



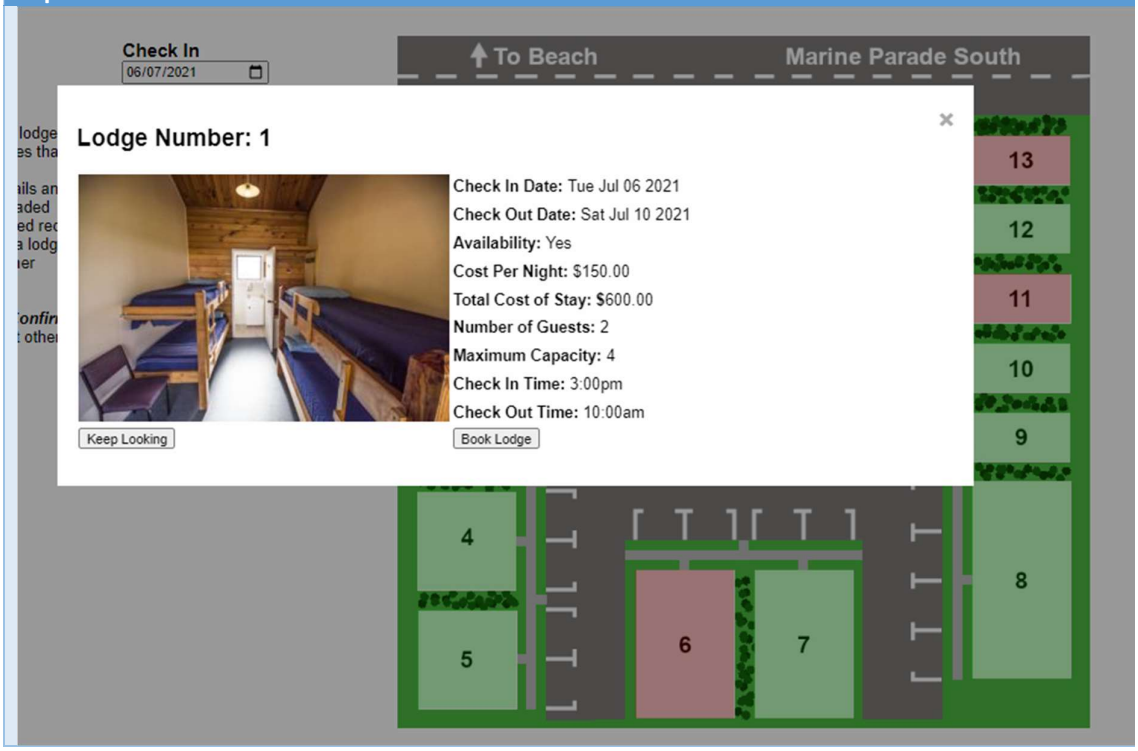
Pass / Fail / Actual Outcome:
Pass

5.4 MouseMove Events

5.4.1 Mouse Over Available Lodges

Requirement To Test:
A Modal will pop up when the mouse hovers over any available lodge, and be populated with information about the lodge specific to the search results.

Test Data Input / User Action:
1. Enter the Check In Date: 6th July 2021
2. Enter the Check In Date: 10th July 2021
3. Enter Capacity: 2
4. Click “Search” button.
5. Hover over Lodge 1.

Expected Outcomes:


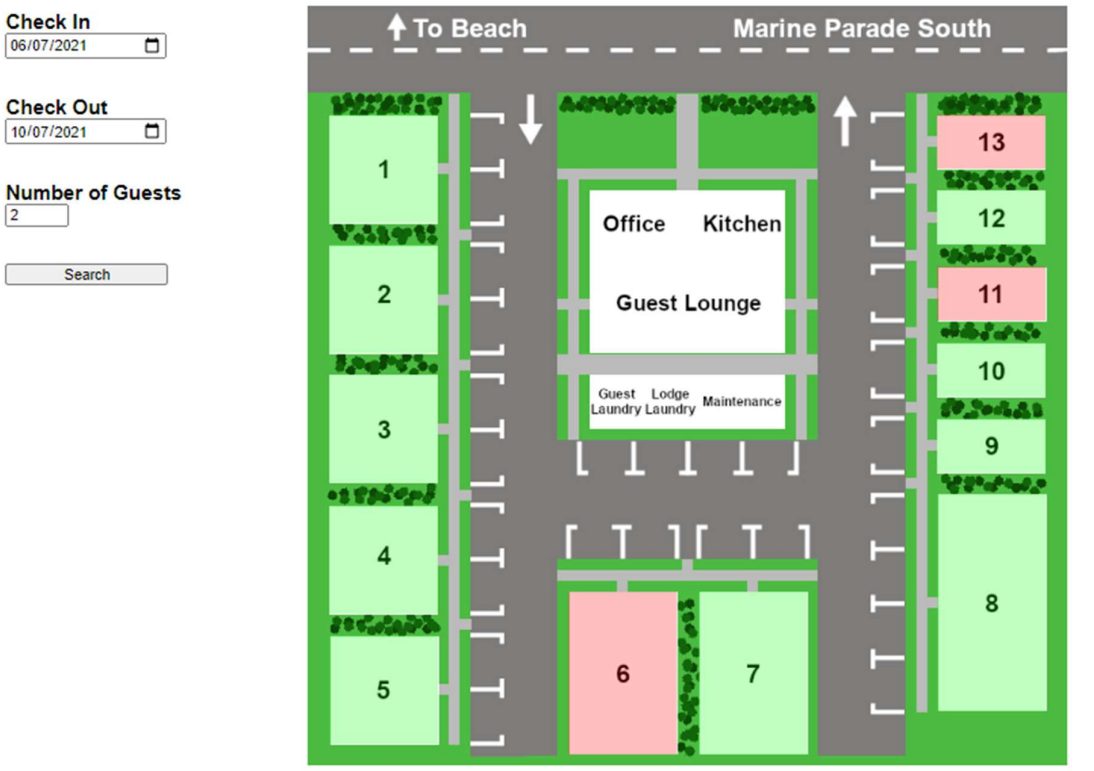
Pass / Fail / Actual Outcome:
Pass

5.4.1 Mouse Over Unavailable Lodges

Requirement To Test:
A Modal will pop up when the mouse hovers over any available lodges.

Test Data Input / User Action:
1. Enter the Check In Date: 6th July 2021
2. Enter the Check In Date: 10th July 2021
3. Enter Capacity: 2
4. Click “Search” button.
5. Hover over Lodge 13.

Expected Outcomes:



Pass / Fail / Actual Outcome:
Pass

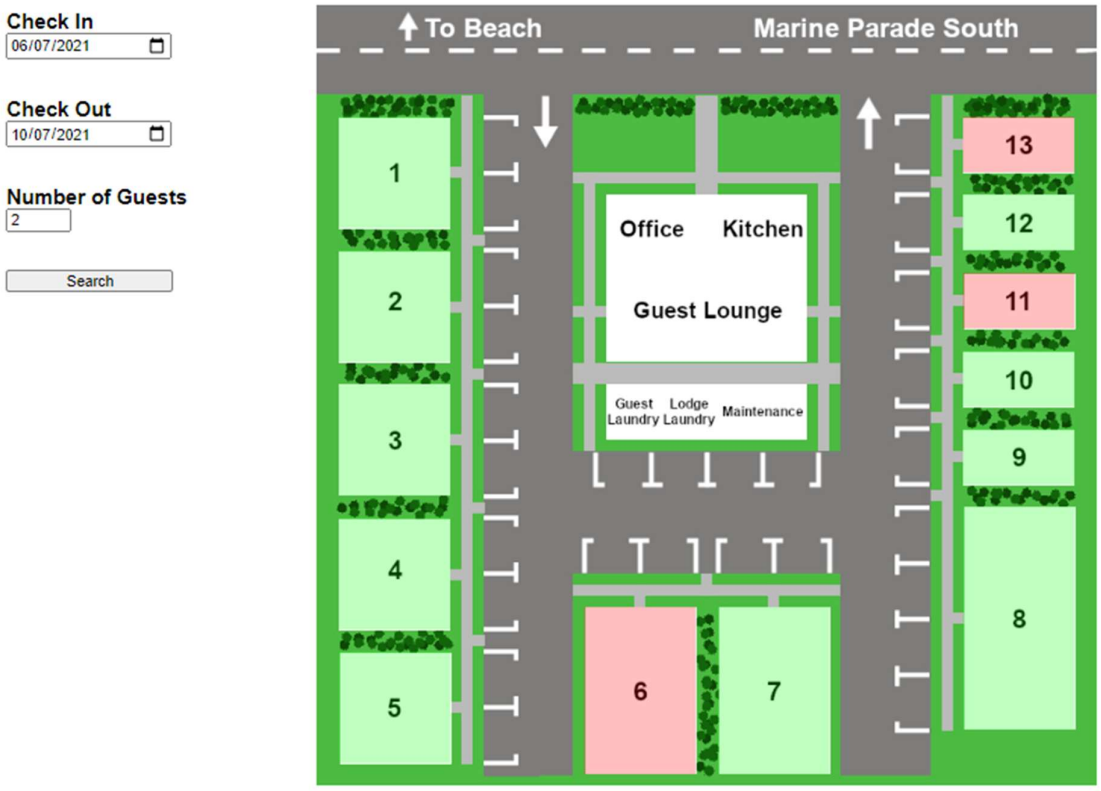
5.4 Lodge Information Modal

5.4.1 Closing The Modal

Requirement To Test:
Clicking outside the modal will close it.

Test Data Input / User Action:
1. Enter the Check In Date: 6th July 2021
2. Enter the Check In Date: 10th July 2021
3. Enter Capacity: 2
4. Click “Search” button.
5. Hover over Lodge 1.
6. Click on the grey area outside the modal

Expected Outcomes:



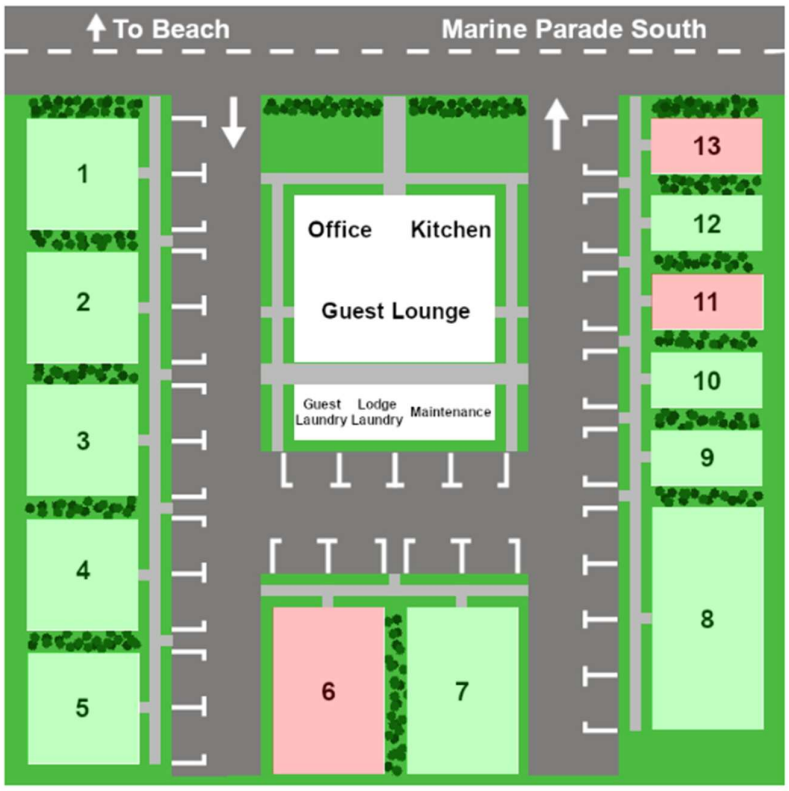
Pass / Fail / Actual Outcome:
Pass

5.4.2 Keep Looking Button

Requirement To Test:
Clicking on the “Keep Looking” button will close the modal.

Test Data Input / User Action:
1. Enter the Check In Date: 6th July 2021
2. Enter the Check In Date: 10th July 2021
3. Enter Capacity: 2
4. Click “Search” button.
5. Hover over Lodge 1.
6. Click on the “Keep Looking” button.

Expected Outcomes:



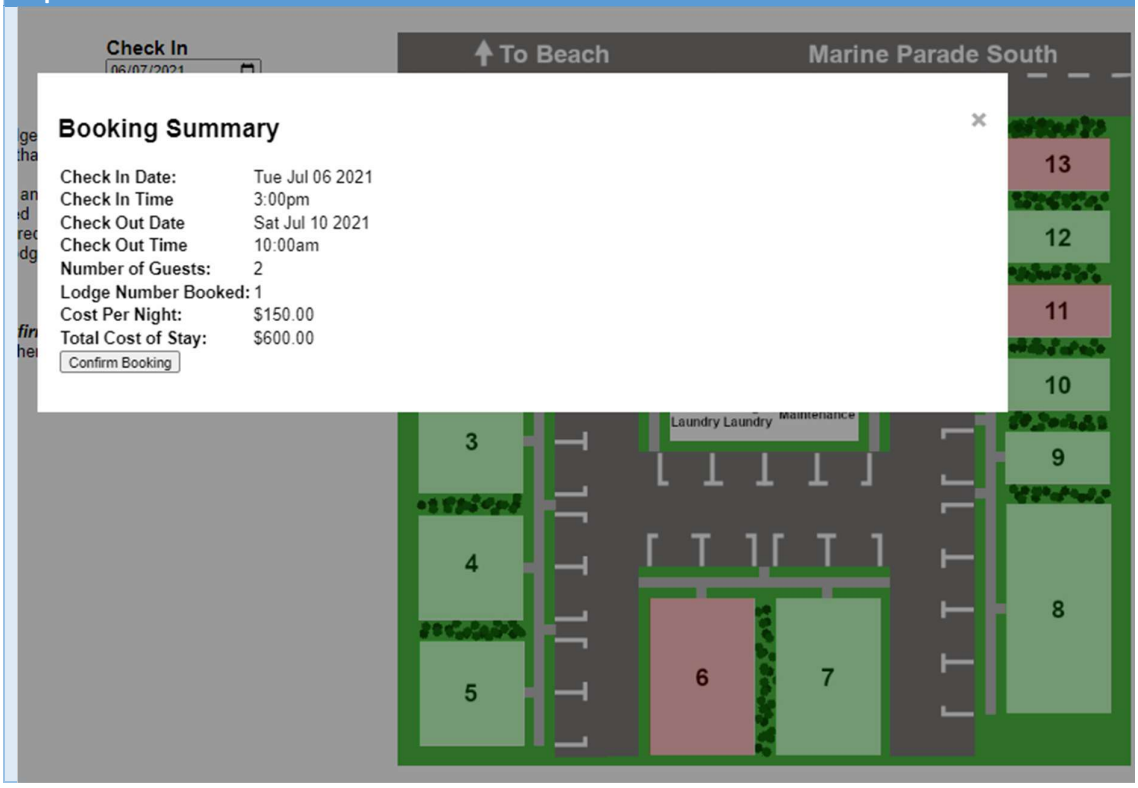
Pass / Fail / Actual Outcome:
Pass

5.4.3 Book Lodge Button

Requirement To Test:
Clicking on the “Book Lodge” button will alter the modal contents to the Booking Summary

Test Data Input / User Action:
1. Enter the Check In Date: 6th July 2021
2. Enter the Check In Date: 10th July 2021
3. Enter Capacity: 2
4. Click “Search” button.
5. Hover over Lodge 1.
6. Click on the “Book Lodge” button.

Expected Outcomes:



Pass / Fail / Actual Outcome:
Pass

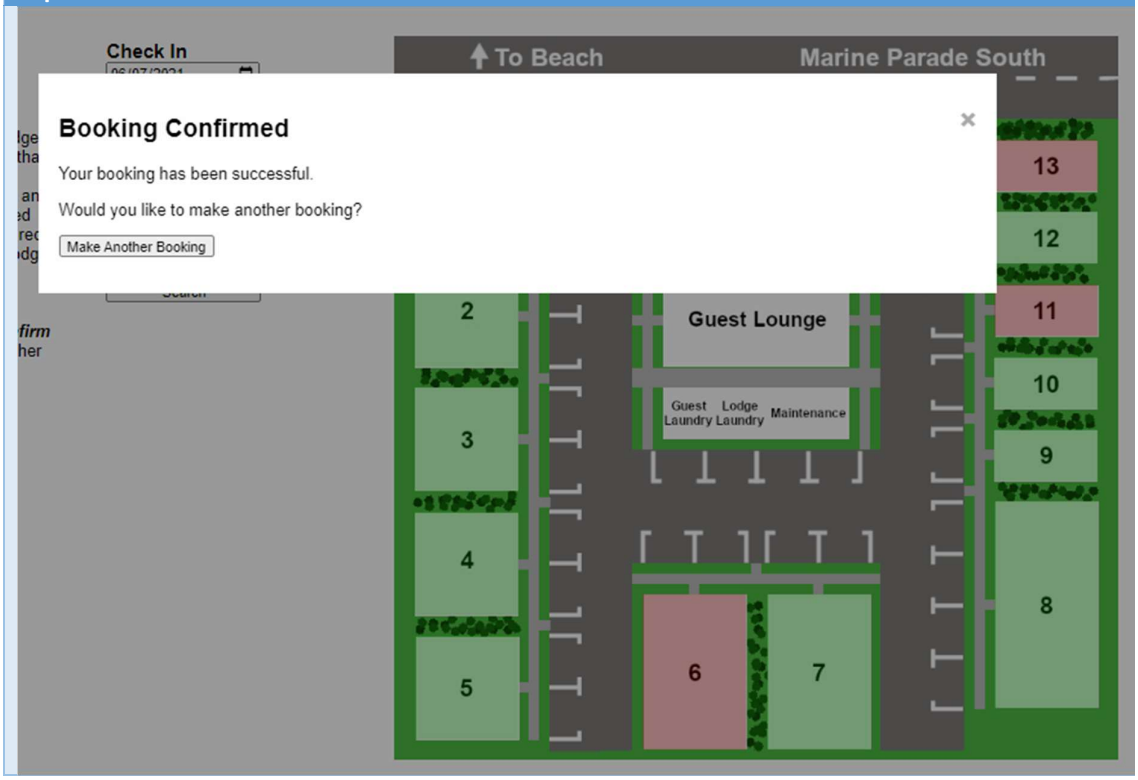
5.5 Booking Summary Modal

5.5.1 Book Lodge Button

Requirement To Test:
Clicking on the "Confirm Booking" button will alter the modal contents to the Booking Confirmation.

Test Data Input / User Action:
1. Enter the Check In Date: 6th July 2021
2. Enter the Check In Date: 10th July 2021
3. Enter Capacity: 2
4. Click "Search" button.
5. Hover over Lodge 1.
6. Click on the "Book Lodge" button.
7. Click on the "Confirm Booking" button.

Expected Outcomes:



Pass / Fail / Actual Outcome:
Pass

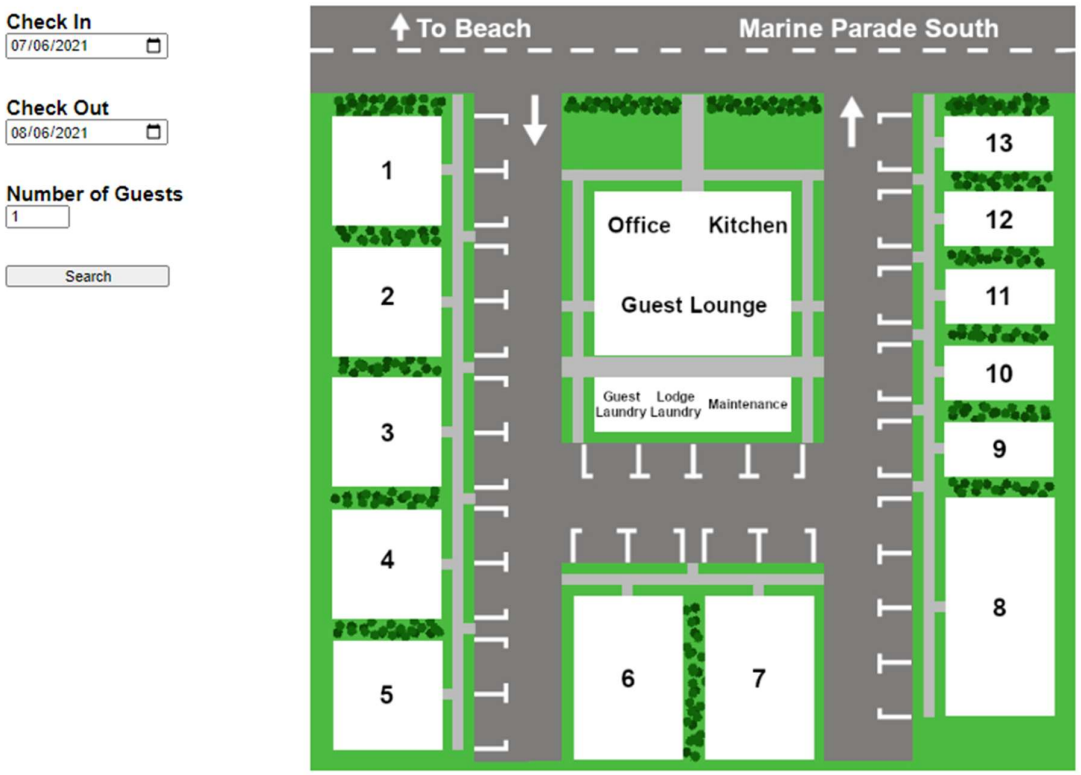
5.5 Booking Confirmation Modal

5.5.1 Make Another Booking Button

Requirement To Test:
Clicking on the “Make Another Booking” button will close the modal and reset the search fields.

Test Data Input / User Action:
1. Enter the Check In Date: 6th July 2021
2. Enter the Check In Date: 10th July 2021
3. Enter Capacity: 2
4. Click “Search” button.
5. Hover over Lodge 1.
6. Click on the “Book Lodge” button.
7. Click on the “Confirm Booking” button.
8. Click on the “Make Another Booking” button.

Expected Outcomes:



Pass / Fail / Actual Outcome:
Pass