|  |  |  |  |
| --- | --- | --- | --- |
| Marking Matrix | | | |
| *Criteria* | *Feedback* | *Available* | *Mark* |
| A uniform and detailed user specification. |  | 40 |  |
| A detailed system specification outlining expected system inputs and outputs |  | 40 |  |
| A consistent and professional requirement specification document. Where appropriate there is clear consistency between user and system specifications. |  | 20 |  |
|  | *Total* | 100 |  |

System Requirement Specification

Software Engineering and Design (Assignment One)

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**Date Submitted:** 14/03/19

# **Requirement Specification**

## User Specifications

1. The software **must** allow users to search for available hotels.
2. The software **must** allow users to the option of choosing additional extras (e.g. breakfast) as part of the booking process.
3. The software **must** prevent double-booking from occurring.
4. The software **mus**tfinalise the booking by requesting the user’s payment details.
5. The software **must** send the user **information** about the purchase once complete.

## System Specifications

1. The users **must** enter the start and end date of their stay into a text field
   1. Upon this field gaining focus a date range picker **must** be displayed
      1. Users **will not** be able to select dates before today’s date
      2. Users **will not** be able to select a date range that is longer than 30-days.
      3. Users **will not** be able to select a date range that is shorter than 1 day.
   2. The user **must** enter the number of guests (integer).
      1. The user **must** specify how many rooms are required (Integer value greater than 0).
         1. This number **must not** be larger than the total number of guests.
      2. The user **must** specify what type of bed they want in the room(s).
         1. This **must** work for each selected room.
      3. The user **must** specify if any of the guests require special needs access, such as a wheelchair friendly bathroom.
2. The user **must** specify if they want any extras during their stay during the booking process.
   1. The user **must** be able to select as many unique extras as they like.
      1. The system **must** display the list of extras as a checklist system.
         1. The system **must not** any boxes checked by default
   2. The user **must** be able to select extras for each guest.
      1. The user **must** have the option to apply the extras to all guests or add extras for each guest individually.
   3. The system **must** display the individual prices of each extra while the user is choosing.
3. The user **must not** be allowed to book a room that has already been booked at the same time they are staying at the hotel
   1. The user **must** be allowed to book an already occupied room if the guest is leaving that day.
   2. The user **must not** be allowed to select a room has been selected by another user currently on the site.
      1. The software **must** prevent the user from lingering on the booking too long via an auto-timeout.
4. The user **must** provide their payment details so the booking can be finalised.
   1. The user **must** be provided with a list of their bookings each broken down into categories of their purchases (e.g. total cost of extras)
      1. The user **must** be able to change their booking from this point if they have changed their minds or the total is more than they can afford.
   2. The user **must** be able to use and discount codes they have.
      1. The software **must** discount the user if the booking equates to one of the booking plans.
   3. The user **must** be provided secure payment methods to finalise their booking
      1. The provided methods **must** include credit card as one of the options.
      2. The software **must** be able to contact the user’s bank or online bank in order to make the transfer either directly or via secure a third party.
   4. The user **must** be provided with a success message if the transaction is completed or a failure message if the transaction fails.
      1. If the transaction fails the user must be provided with an appropriate reason, such as insufficient funds or a declined card.
      2. If the transaction fails the user **must** be brought back to the payment summary screen so they can edit their booking if need be.
5. The user **must** provide contact details so they can be contacted if need be
   1. The user **must** provide at least one of each of the following: Email, Phone Number
      1. The user **must** be sent an email after the booking is completed detailing information about their booking.
      2. The user **must** be contacted if external changes to their booking have to be made.
      3. The user **must** be provided with a booking number if they themselves need to make changes to the booking after it has been completed.