INFO 6350 Spring 2018

Assignment # IV

The third assignment will consist of writing/compiling/testing a console based application (using macOS command line tool) to create a Model component for an app for managing a hotel. This will be the basis for the upcoming assignments.

Following are the operations to implement:

1. **AddCustomer**: Allow the user to create a new customer with the specific details.
2. **CreateRoom**: Allow user to create a room which can be booked for a customer
3. **DisplayRooms**: Display all rooms details occupied and vacant
4. **CreateBooking**: Allow the user to create a booking for a room
5. **DisplayBooking**: Allow the user to display all the bookings

5. **Search**: Allow the user to search for a booking given a date/customer name.

6. **DeleteBooking**: Delete a booking.

The model needs to implement, at the minimum, the following classes and attributes. You can add more attributes if you wish to.

1) Customer *Attributes:* Name, Address, Id number, phone number

2) Booking *Attributes:* bookingName, fromDate, toDate, Customer, Room,

3) Room *Attributes:* Name, type (single occupancy ,double occupany), price

All the above attributes are required

Note:

When creating a booking ask for dates and only if rooms are available for those dates, should you let the user book them.

Rooms can be booked for a minimum of a single day.

Only after creation of Customer and Room, Booking can be created.

If the room is a single or double occupancy only one customer can book it at a time

For each of the supported operations, the application will display the results to the console so no UI is required. Similarly, the console should prompt you to enter the details wherever required.