Rob – Hotel Reservation System

Fall 2018, CIT-111, CCAC North

Access Instructions:

Room Object: https://github.com/robertbingaman/cit111_ccac/blob/master/finalProject/Room.java

Reservation Object:
https://github.com/robertbingaman/cit111_ccac/blob/master/finalProject/Reservation.java

Reservation System:
https://github.com/robertbingaman/cit111_ccac/blob/master/finalProject/ReservationSystem.java

My hotel reservation system program is a user interactive system to create a reservation at a hotel and subsequently view and cancel the reservation. There are two types of objects unique to this program, the room and the reservation objects. In the code, I have created four room objects to be used when creating reservations that are all slightly different. The program loops in the main method always coming back to a main menu of the system (which can be seen in screenshot 1).

Screenshot #1:


```
run:
Welcome to the Bing Hotel, what would you like to do?
Please select from the menu below by pressing the corresponding number and hitting enter:
1 - View details on hotel rooms
2 - Create a new reservation
3 - Check reservation details
4 - Cancel reservation
5 - Leave Hotel
```

This is the main menu of the program. The user will have to type the corresponding number and hit enter to direct which case in the switch statement will be selected. This type of user interaction is a large part of this program.

Screenshot #2


```
********Creating Reservation*********
How many guests will be staying in the room? Please type the number and hit enter.
4
Which room would you like to reserve?
1
You have too many guests for this room, please make another room selection.
2
That room will work!
What date would you like your reservation to be for? Please type your date in the format MM/DD/YYYY and hit enter.
12/31/2018
Great, you have made your reservation!
Your reservation number is: 1. Please keep this information for your records.
***************************
```

Typing this date in the correct format is very important to store the date in the java.time.LocalDate type variable in the reservation object.

Useful Learning Resources:

1. Using the LocalDate type variable (particularly third comment down explain parsing):
   https://stackoverflow.com/questions/29062204/create-localdate-object-from-integers
2. Testing for an object's existence in the program: https://coderanch.com/t/395024/java/test-object-exists

Ideas for Future:

a) Didn't have time to develop a date validation on the room object to ensure it was not already reserved for the date the user selected.
b) Getting information about the rooms could be more efficient or clear.
c) Adding a GUI on top of the program could help make it more user interactive.