

## **Project: Hotel Reservation System**

**Due Date: January 9<sup>th</sup>, 2018 (No late submission allowed)**

**Late submission: If you send me all the project files after January 9<sup>th</sup> Mid night Eastern Time, project will be marked Zero.**

### **Introduction:**

Hotel ABC is one of the famous tourist hotels in XYZ city. But this hotel's current reservation is based on manual system. When guests come in to make reservation details are recorded in a file and then those files are stored in special cabinets. Also the billing system is manual too.

As the current system is manual based, management of the hotel has to put extra efforts to keep the data secured. Record can easily be destroyed in case of fire, disaster or even possible to be stolen. Also keeping files take extra cabinets to store them into, searching a record is very hard, which in results put lots of man hours. As well as billing system are manually handled so having an error in calculation is also at high risk.

We have decided to develop their Reservation system as a computer based system and hotel can give quick service to the guests.

### **Objectives:**

- Computerized system to replace the manual reservation system.
- Save time of hotel employees and guests.
- Develop a data structure which stores guest's details when they arrive for reservation.
- Create an easy to understand user friendly environment.
- The customers can book the room via phone or in person.
- The billing system should provide a bill against each reservation made at check out.

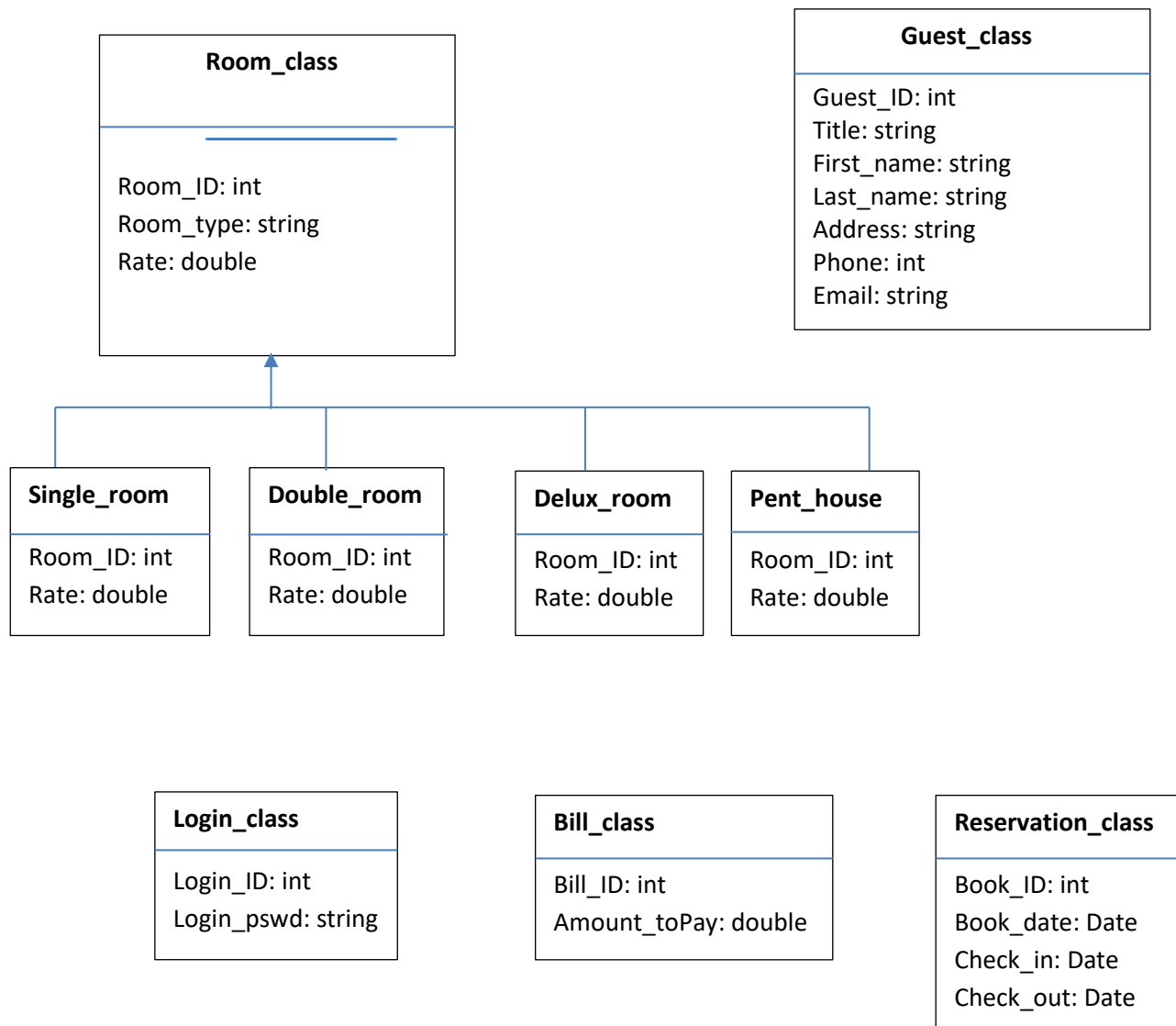
### **Functional Requirements:**

- System should display the login page for admin only.
- System should accept the users registration if all the fields are entered correctly.
- System should store the data.
- System should show the available rooms.
- System should ask for the number of persons going to check-in.
- Based on the number of guests system should suggest how many rooms the guests needed.

- System should not accept more than 2 adult guests in one room.
- System should accept the booking if less than 2 adult guests.
- System should accept the booking.
- System should ask for details to enter.
- System should ask for check-in/ check-out dates.
- System should ask for conformation.
- System should confirm.
- System should store the booking in database (data structures).
- System should show the conformation of the room.

### Minimum Classes Required:

Minimum requirement for the classes for the project, you can add more classes if needed and add more functionalities to it. All inputs needed to have get and set methods. Use data structures for storing data and make the connectivity by calling the object of the other class, (If you know JDBC and how to use it with java you can use that too).



## Expectations from the project:

The project should start with a login window

<u>Hotel Reservation System</u>  User Id:  User password:
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Once the admin login to the system he should be able to see another menu,

<u>Hotel Reservation System</u>  [1]      Book a room  [2]      Bill service  [3]      Current bookings  [4]      Available rooms  [5]      Exit
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### Option 1:      **Book a room will open another menu**

<u>Hotel Reservation System</u>  No of guests:  Show the room available for the guests:  Choose the room type:  No of days to be booked for:  Rate to be offered /day:
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- Note:
- No of guests will take how many guests are going to stay,
  - 1 adult can have a single room
  - 2 adults can have a single room
  - More than 2 adults less than 4 can have Double room or two single rooms will be offered.
  - More than 4 adults will have multiple Double or combination of Double and single rooms.

After this information and room selection is done another menu should open to get the guests information.

<u>Hotel Reservation System</u>
Title:
First Name:
Last Name:
Address:
Phone:
Email:

- Note:
- Email should be a valid address, [something@something.com/ca](mailto:something@something.com/ca)
  - All fields must required

Once all these steps are done the system should automatically save and store the information in appropriate classes using appropriate data structures or database whatever option you choose to store the data with.

**Option 2: Bill Service menu will show**

<u>Hotel Reservation System</u>  Enter Booking ID:
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<u>Hotel Reservation System</u>  Booking ID:  Guest Name:  No of rooms booked:  Type of rooms:  Rate per night:  Discounts: %  Total Amount:
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Note:

- Discount will be given if entered like 5% or 10% up to a maximum of 25%.

**Option 3 – Will show the list of all the current bookings,**

<u>Hotel Reservation System</u>				
No of current bookings are: 6				
Booking #	Customer Name	Room Type	No of Rooms	No of Days
.....	.....	.....	.....	.....

#### **Option 4 – Will show the list of available rooms in the hotel**

<u>Hotel Reservation System</u>	
No of Available rooms: 3	
Room ID	Room Type
.....	.....

#### **Option 5 – Will quit the program**

#### **Important pointers:**

- **System should have minimum two administration Id's and passwords.**
- **I should be able to run two command prompts with admin id and password.**
- **So you must setup a multithreaded server with two clients at least.**
- All the fields should have proper validation, for example if you are taking input as an integer then I shouldn't be able to enter string or double values, like no of guests.
- All exception handling must be done properly.
- You are allowed to add more functionality or menu items or classes.

Good Luck and Happy Codding....