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| Objects\_Rooms |
| * SerialNoOfRoom * KindOfRoom * Room\_Cost * IncludedBalcony * IncludedLounge * EMail |
| * takeSerialNoOfRoom () * takeKindOfRoom() * takeRoom\_Cost () * takeInforOfBalcony () * takeInfoOfLounge () * takeEmail () * askForEmail () |

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| ReservationSystemOfRoom |
| * client\_Room\_Reservation () * client\_Reservation\_Cancellation() * viewClientRoomReservation () * Saved\_Room() |

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I was given a task to develop Java application that would allow customers ofhotel to Book Rooms, Cancel Room Bookings, View Room Bookings, and Quit the Software. All these features would be accessible via the application. The programme really must include every one of these components. Developing several different methods in code is, in my opinion, the most effective way to make certain that the results of my code are as positive as they can be. For instance, I plan to have a method for each section of the programme, such as, one for reserving a room (client\_Room\_Reservation ()), one for viewing room bookings (viewClientRoomReservation ()), one for cancelling room bookings (Client\_Reservation\_Cancelling ()), and one for exiting the programme ().

The capability of the programme to receive input from users is yet another essential aspect of the software. For the user to successfully finish the booking, they need to be able to enter the email address that they are using and choose the programme option that they wish to take advantage of. The String that the User inputs into the software must be written into the Rooms.txt file at many different stages during the function of reserving room. In order to accomplish this goal, I included a software called File Writer into the whole system.

In addition to that, my programme will call for the completion of an additional Class. Throughout the whole of the application, this Class will be used to make modifications to the data. One very good illustration of this would be the steps involved in creating a new Room Record inside my software. I require the ability to print information about the lodging, including the room number, the kind of room, the price, whether it has a balcony or a lounge, and, most importantly, whether the room has been reserved or is still available. Because they will need to be accessible from every point in the programme, the procedures that will need to be developed in order to accommodate the Room specifics that have been detailed so far will have to be made public.

In light of the fact that the cancelling of room function would need updating a section of the Rooms.txt file, I made the decision to include an if statement that verifies the correctness of the provided email address. An error message will be shown in the terminal if the user does not include the character '@' in the string of input data that they are providing. This objective will be addressed by the implementation of ‘askForEmail' method inside the second class. If you type the character '@' in the input field, the text that is stored in the file will be replaced with the word 'free,' which will result in the cancellation of the booking.

I have provided a design of my programme on the next page, which I feel will be an accurate depiction of how my software will perform when it has been finished by me.