+ main(String[])
+ reader (Scanner)

SystemManager

+ hotels : ArrayList<Hotel>
+ hotelName : String
+ roomType : int
+ roomNum : int

- + addHotel (String hotelName
- + deleteHotel (String hotelName)
- + viewAllHotel()
- + viewAHotel(String hotelName
- + singleInsertion(String[] input)
- + printAllReservation(String hotelName)
- + addHotel (Hotel hotel)
- + hotelToAccomodate(String [] input)
- + processReservation (String username, Calendar startDate, int numNight, String roomType)
- + viewAll()
- + hotelExist (String hotelName)
- + getHotelIndex(String hotelName)
- + viewAllRoomsInHotel();
- + viewAHotelRoom();
- + cancelReservationSystem(String [] input)
- + reservationExist (String [] input)
- + getRoomInfo (String[] input)
- changeStringToInt (String input)
- changeMonthToInt (String input)

Hotel

- rooms : ArrayList <Room>

- hotelName

- + getMont (int month)
- + checkAllRoom(Calendar startDate, String roomType, int numNight, Calendar startDate)
- + loopThroughRoom (String roomNumber)
- + addReservationViaRoom(String username, Calendar startDate, int numNight, String roomType)
- + getRoomIndex (String roomNumber)
- + addRoom (String roomNumber, String roomType)
- + viewAllRoom()
- + cancelViaHotel (String username, String roomNum, int month, int date, int numNight)
- + getRoomDate (String roomNum)
- + checkReservationExistInRoom (String username, String roomNum, int month, int date, int numNight)
- + manualInsert (String username, String month, String date, String numNight, String roomType, String numRoom)

Room

- roomNumber (int number)
- roomType (int type)
- reservationMap Map<Integer, LinkedHashMap<Integer, String>>
- + manualInsert (String username, String date, String month, String numNight)
- + checkValidRes (Calendar startDate, int numNight)
- + addReservation (String username, Calendar startDate, int numNight)
- + cancelReservation (String username, int month, int date, int numNight)
- + checkResInHash (String username, int month, int date, int numNight)
- changeMonthToInt(String input)