VenueHireSystem

-venues: ArrayList<Venue>
-customer: ArrayList<Reservation>

+FindVenue(String id) :int
+findReservation(String id) :int
+processCommand(JSONObject) : void
+addRoom(String venue,String room,String size): void
+request(String id, LocalDate start, LocalDate end,
    int small, int medium, int large): JSONObject
+change(String id, LocalDate start, LocalDate end,
    int small, int medium, int large) : JSONObject
+cancel(String id): int
+search_venue_name(String name) :int
+list(String venue) : JSONArray

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<<hold>>

Venue

-rooms: ArrayList<Room>
-name:String
-small:int
-medium:int
-large :int

+getname():String
+addRoom(Room new_room):void
+get_n_room():int
+small_room():int
+medium_room():int
+large_room():int
+getrooms(): ArrayList<Room>
+req_room(LocalDate startdate,LocalDate enddate,int s, int m,int l,String id): ArrayList<Room>
+remove_req_room(LocalDate start,LocalDate end,Room res_room):int
+findroom(Room room):Room
+rollback(String id):void

<<consist of>>

Reservation

-id:String
-res_venue:Venue
-start_date:LocalDate
-end_date:LocalDate

+getenddate():LocalDate
+getvenue_name():String
+getid():String
+getstartdate():LocalDate
+getvenue():Venue
+get_n_room():int
+get_rooms():ArrayList<Room>
+setname(String id):void
+setstartdate(LocalDate start_date):void
+setenddate(LocalDate end_date):void
+check_req(int small,int medium,int large,ArrayList<Venue> venues,LocalDate startdate,LocalDate enddate,String id):Venue

<<holds>>

Room

-size:private String
-name:private String
-date:public ArrayList<Res_Date>
- rollback_date : Res_Date

+getsize(void): String
+getname(void) : String
+check_valid_date(LocalDate new_start_date,LocalDate new_end_date) :boolean
+request(LocalDate new_start_date,LocalDate new_end_date,String id):void
+remove_date(LocalDate start ,LocalDate end):int
+equals(Object obj):boolean
+get_res_date_list_size():int
+get_rollback():Res_Date
+set_rollback(String id,LocalDate start,LocalDate end):void
+get_rollback_id():String
+rollback(): void

<<maps to>>

SortbyDate

+compare(Object arg0, Object arg1):int

<<consist of>>

Res_Date

- start_date:LocalDate
-end_date:LocalDate
- id:String

+get_start_date():LocalDate
+ get_end_date(): LocalDate
+set_start_date(LocalDate start_date):void
 + set_end_date(LocalDate end_date):void
+compare_start_date(LocalDate res_date): int
+compare_end_date(LocalDate res_date):int
+getid(): String
+get_start_string():String
+get_end_string():String