Meeting Room Booking :

Tech used :

1. Spring boot

2. Hibernate

3. Aspect oriented Programming

4. swagger

5. Actuator

DBScript :

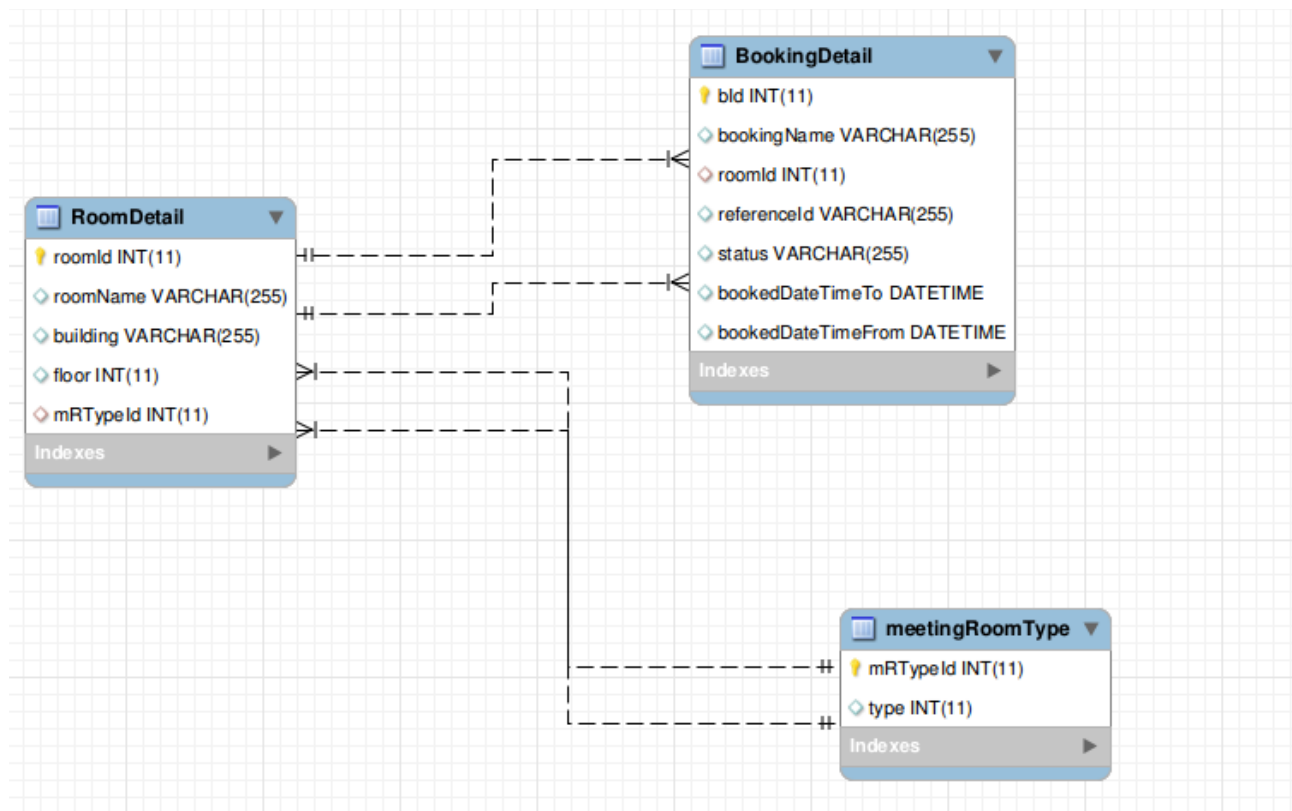MYSQL version 5.7 version is used.

Database script is attached with source code .

Path : src/DBScript

To create table : TableCreationScript.sql

To insert into table : insertDataScript

Table Relations :

Assumption :

1. Always Room is booked for 30 minutes .

   i.e if booking time is : 12:00 AM then room booked for 12:00 AM to 12:30 PM.

Swagger URL :

http://localhost:8080/swagger-ui.html#/

 Note: Port 8080 should be changed according to provided port.

Controller :

1. AvailableRoomController :

URL : http://localhost:8080/availableRooms

Method Type : GET

Description : This method will give you information about available room with building Name, Floor,
                  roomName and meetingroomType(4 seater or 8 seater).

Response : Get the json which consist of all information about rooms.

```
i.e. [
   {
      "roomId": 1,
      "roomName": "MR1",
      "building": "BA1",
      "floor": 1,
      "meetingRoomType": "4"
   },
   {
      "roomId": 2,
      "roomName": "MR2",
      "building": "BA1",
      "floor": 1,
      "meetingRoomType": "4"
   },
   {
      "roomId": 3,
      "roomName": "MR3",
      "building": "BA1",
      "floor": 1,
      "meetingRoomType": "8"
   }
]
```


2. BookingController :

URL : http://localhost:8080/booking

Request Method : POST

Request Body :

```
[
   {
      "bookingName": "UserName",
      "roomName": "MR2",
      "building": "BA1",
      "floor": 1,
      "meetingRoomType": "4",
      "bookedDateTimeTo":"2017-01-13T17:03:00",
      "bookedDateTimeFrom":"2017-01-13T17:09:42"
   }
]
```

Description :

This controller books room with above mentioned requirement.

Response :

If room available with mentioned requirement :

Message : **Room Bo oked Successfully with Reference Id referenceId.**

If room is not available with above given requirement :

Message : **No rooms with following requirement is available**

3. BookingCancel Controller

URL : /bookingCancel/{referenceId}

Request Method Type : POST

Description :

It deletes entry of given referenceID from the database so that room will be available for the following time. Parameter {referenceId} can be taken from database table "BookingDetail".

Response :

if reference Id is available :

Message : Booking Cancelled Successfully