**Resource Management System**

This system manages the allocation and deallocation of event/conference halls.

This system contains two type of user roles:

* **ROLE\_ADMIN :** The user having this role can do following operations:

1) add event/conference hall details in the system.

2) view the users registered in the system.

3) view the bookings list as well as details of bookings.

4) delete any booking for a conference hall.

* + - * **ROLE\_USER:** This user can do following operations:

1) This user can view and edit his profile details.

2) can search available halls based on search criteria like: booking\_start\_date\_time, booking\_end\_date\_time, location, number\_of\_seats

3) can book a hall from searched list.(once made a booking can not be updated)

4) can view his all past, current and future bookings list.

5) can cancel future booking (current or past booking can’t be cancelled)

6) can rate the halls.(rate will be from 1 to 5).

**Technical Implementation for system**

* The rest api url (except login and register) can be accessible by authenticated and authorized users only.
* If admin will cancel the event then a mail goes to user whose booking has been cancelled with reason mentioned in email.
* User has to register into system before make bookings.
* Only those conference hall will come in list which is available(not booked) on give search criteria.
* After booking a confirmation mail will go to user’s email box with all the details of bookings.
* Only future booking can be cancelled by admin or user.
* Implement pagination for getting booking list.
* Booking status will be auto updated by cron-job. And also an email delivered to user whose booking starting or completing.

**DB Structure**

Users- fullname, email, contactNumber, address, city, country, role

ConfrenceHalls- name, location, city, country, no\_of\_seats, ratings, imageUrl

Bookings- hallId, userId, start\_date\_time, end\_date\_time, status