# Hotel Booking System

Implement a simple hotel booking system for the following use cases.

## Hotel Owner Use Cases

1. As a hotel owner, I should be able to add new rooms so that customers can book it.
2. As a hotel owner, I should be able to see the statusof all rooms (Booked/Not Booked), for a selected date so that I can make necessary preparations to accommodate the guests.

## Customer Use Cases

1. As a customer, I should be able to register on the booking site with any one of my social logins(either Google or Twitter)
2. As a logged in customer, I should be able to book a room, by selecting a time period and the room type (Single/Double). If the room is available for the selected period, then the system should book the room and display a success message with the booked room no, otherwise it should display an appropriate message indicating that rooms are not available.
3. As a logged in customer, I should be able to view a list of my previous bookings so that I can keep track of it.

## Angular Application (Hotel Owner Use Cases)

The application should be authenticated using local login. After the userlogs in, he should be taken to theRooms Listpage**.**

### Rooms List Page

* Contains a date control and a submit button.
* When user selects a date and clicks on the submit button, the system will fetch all the rooms and display the status of the rooms (**Booked / Not Booked**) for the selected date in a grid view. The necessary columns are **Room No, Room Type** and **Status**
* The rooms list page should also have a **Add Room** button. Clicking on it should navigate to the Add Room Page

### Add Room Page

* Add Room page is a simple forms page where the hotel owner can add rooms. It should have Room No (Text), Room Type (Dropdown – **Single/Double**) and a submit button.
* On clicking on submit, the room should be added to the database.
* Note that Room No must be a unique string.

All database communications should happen through a Web API. The Web API should be authenticated using a JWT token.

## MVC Application (Customer Use Cases)

The application should be authenticated using either Google or Twitter login. Once the user logs in, he should be taken to the Book Room page

### Book Room Page

* Should have the following controls
  + From date (Date Control)
  + To date (Date Control)
  + Room Type (Dropdown – **Single / Double**)
  + Button (submit)
* Once the user enter all the details and click on submit button, the system should check if there are any rooms in **Not Booked** status for the given conditions (date and room type). If the room is available, then the system will book the room and return the room no to the user with a success message. Otherwise, the system should show an appropriate error message.
* The Book Room page should also have a **My Bookings** button. Clicking on it should take the user to the My Bookings page.

### My Bookings Page

* Should display all the bookings made by the user in a grid view. The necessary columns are **Booking Date**, **Room No**, **Room Type**.

## Database

Use either SQL Server or Mongo DB

## Important Instructions:

1. Add validations wherever necessary.
2. Code must be compilable and executable
3. Should provide db scripts for the database items or a database backup file (.bak)
4. Any other special instructions should be clearly specified.
5. Should provide a sample login for the angular application.
6. Should not zip with library files (.dll or node modules) they will be built during compilation.