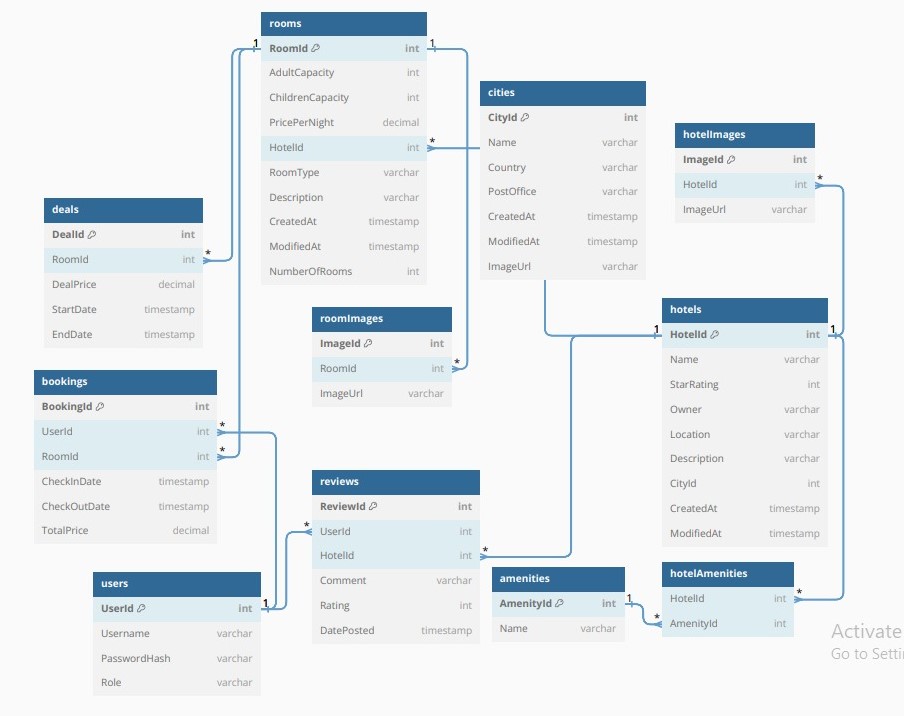
**Travel And Accommodation Booking Platform Project Documentation**

**System Architecture :**

This system use the 3 layered arch , where there is 3 layers as :

* Data Access Layer : class library project having the DB entities , repositories , migrations , configurations and Application DB Context .
* Business Layer : class library project having the system services that implement the business logic , Dto’s for update/create and display , Validators and profiles .
* Presentation Layer : ASP.NET core web api project having the Api’s End Points and Controllers that define the routes and actions for your API. These controllers handle HTTP requests, process the business logic using services from the Business Layer, and return responses.

**Data Base Schema :**



Indexes of the tables :

* Users : username
* Cities : Name
* Hotels : CityId
* Rooms : HotelId
* Deals : RoomId
* Bookings : RoomId , UserId
* HotelImages : HotelId
* RoomImages : RoomId
* HotelAmenities : HotelId
* Reviews : HotelId , UserId

API’s End Points :

1. Authentication End Points” Login page”:

Login API : /login

Request body example :

**{**

**"username": "Admin",**

**"password": "Adminpass"**

**}**

##### Theres two types of user : Admin Or Reguler user .

##### Response body:

**{**

**"token": "eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJuYW1lIjoiYWRtaW4iLCJVc2VySWQiOiIxIiwicm9sZSI6IkFkbWluIiwibmJmIjoxNzAyNjQ5NjUzLCJleHAiOjE3MDI2NTMyNTMsImlhdCI6MTcwMjY0OTY1MywiaXNzIjoiaHR0cHM6Ly9sb2NhbGhvc3Q6NzI3MCIsImF1ZCI6IlRyYXZlbEFuZEFjY29tbW9kYXRpb25Cb29raW5nUGxhdGZvcm0ifQ.4WTdRJGKuUh7PRxQXbpFVbQrftef57nhBmVqMVRu-XU"**

**}**

1. City End Points:

* Get All cities : /api/cities:

**Response body**

**Download**

**[**

**{**

**"cityId": 1,**

**"name": "Jerusalem",**

**"country": "Paleetine",**

**"postOffice": "11213",**

**"createdAt": "2023-12-07T23:24:53.0466667",**

**"modifiedAt": "2023-12-09T17:34:45.8528715",**

**"imageUrl": "city1.jpg"**

**},**

**{**

**"cityId": 2,**

**"name": "Ramallah",**

**"country": "Palestine",**

**"postOffice": "54321",**

**"createdAt": "2023-12-07T23:24:53.0466667",**

**"modifiedAt": null,**

**"imageUrl": "city2.jpg"**

**},**

**{**

**"cityId": 5,**

**"name": "Nablus",**

**"country": "Palestine",**

**"postOffice": "45678",**

**"createdAt": "2023-12-07T23:24:53.0466667",**

**"modifiedAt": null,**

**"imageUrl": "city5.jpg"**

**},**

**{**

**"cityId": 7,**

**"name": "Jenin",**

**"country": "Palestine",**

**"postOffice": "34567",**

**"createdAt": "2023-12-07T23:24:53.0466667",**

**"modifiedAt": null,**

**"imageUrl": "city7.jpg"**

**},**

**{**

**"cityId": 13,**

**"name": "UpdatedName",**

**"country": "Country",**

**"postOffice": "010101",**

**"createdAt": "2023-12-11T12:59:09.3433333",**

**"modifiedAt": "2023-12-11T13:00:09.1785574",**

**}**

* Get city by id : /api/cities/{id}

**Response body**

**Download**

**{**

**"cityId": 1,**

**"name": "Jerusalem",**

**"country": "Paleetine",**

**"postOffice": "11213",**

**"createdAt": "2023-12-07T23:24:53.0466667",**

**"modifiedAt": "2023-12-09T17:34:45.8528715",**

**"imageUrl": "city1.jpg"**

**}**

**}**

* Create City : /api/cities “Authorized by Admin”

Body request example :

**{**

**"name": "newCity",**

**"country": "country",**

**"postOffice": "0000"**

**}**

**Response body**

**Download**

**{**

**"message": "City Created successfully"**

**}**

**4**

* Update City : /api/cities/{id}“Authorized by Admin”

Request body :

**{**

**"name": "new name",**

**"country": "new country name",**

**"postOffice": "010101"**

**}**

**Response body**

**Download**

**{**

**"message": "City updated successfully"**

**}**

**}**

* Delete City : /api/cities/{id}“Authorized by Admin”
* **Response body**
* **Download**
* **{**
* **"message": "City deleted successfully"**
* **}**

* Get trending Destinations “Cities with most popularity (3 top cities)”: “Authorized by Reguler User”

/api/cities/trending

**Response body**

**Download**

**[**

**{**

**"cityId": 1,**

**"name": "Jerusalem",**

**"country": "Paleetine",**

**"postOffice": "11213",**

**"createdAt": "2023-12-07T23:24:53.0466667",**

**"modifiedAt": "2023-12-09T17:34:45.8528715",**

**"imageUrl": "city1.jpg"**

**},**

**{**

**"cityId": 7,**

**"name": "Jenin",**

**"country": "Palestine",**

**"postOffice": "34567",**

**"createdAt": "2023-12-07T23:24:53.0466667",**

**"modifiedAt": null,**

**"imageUrl": "city7.jpg"**

**}**

1. **Hotel End Points :**

* **Get All Hotels : /api/hotels**

**Response body**

**Download**

**[**

**{**

**"hotelId": 31,**

**"name": "Hotel1 in Jerusalem",**

**"starRating": 4,**

**"owner": "Owner1",**

**"location": "Location1",**

**"description": "Description for Hotel 31",**

**"cityId": 1,**

**"createdAt": "2023-12-07T23:24:53.0433333",**

**"modifiedAt": null,**

**"averagePricePerNight": 0,**

**"reviews": [],**

**"hotelImages": [],**

**"rooms": []**

**},**

**{**

**"hotelId": 32,**

**"name": "Hotel2 in Jerusalem",**

**"starRating": 3,**

**"owner": "Owner2",**

**"location": "Location2",**

**"description": "Description for Hotel 32",**

**"cityId": 1,**

**"createdAt": "2023-12-07T23:24:53.0433333",**

**"modifiedAt": null,**

**"averagePricePerNight": 0,**

**"reviews": [],**

**"hotelImages": [],**

**"rooms": []**

**},**

**{**

**"hotelId": 34,**

**"name": "Hotel1 in Ramallah",**

**"starRating": 4,**

**"owner": "Owner4",**

**"location": "Location4",**

**"description": "Description for Hotel 34",**

**"cityId": 2,**

**"createdAt": "2023-12-07T23:24:53.0433333",**

**"modifiedAt": null,**

**"averagePricePerNight": 0,**

**"reviews": [],**

**"hotelImages": [],**

**"rooms": []**

**},**

**{**

**"hotelId": 35,**

**"name": "Hotel2 in Ramallah",**

**"starRating": 3,**

**"owner": "Owner5",**

**"location": "Location5",**

**"description": "Description for Hotel 35",**

**"cityId": 2,**

**"createdAt": "2023-12-07T23:24:53.0433333",**

**"modifiedAt": null,**

**"averagePricePerNight": 0,**

**"reviews": [],**

**"hotelImages": [],**

**"rooms": []**

**},**

**{**

**"hotelId": 43,**

**"name": "Hotel1 in Nablus",**

**"starRating": 4,**

**"owner": "Owner13",**

**"location": "Location13",**

**"description": "Description for Hotel 43",**

**"cityId": 5,**

**"createdAt": "2023-12-07T23:24:53.0433333",**

**"modifiedAt": null,**

**"averagePricePerNight": 0,**

**"reviews": [],**

**"hotelImages": [],**

**"rooms": []**

**},**

**{**

**"hotelId": 44,**

**"name": "Hotel2 in Nablus",**

**"starRating": 3,**

**"owner": "Owner14",**

**"location": "Location14",**

**"description": "Description for Hotel 44",**

**"cityId": 5,**

**"createdAt": "2023-12-07T23:24:53.0433333",**

**"modifiedAt": null,**

**"averagePricePerNight": 0,**

**"reviews": [],**

**"hotelImages": [],**

**"rooms": []**

**},**

**{**

**"hotelId": 49,**

**"name": "Hotel1 in Jenin",**

**"starRating": 4,**

**"owner": "Owner19",**

**"location": "Location19",**

**"description": "Description for Hotel 49",**

**"cityId": 7,**

**"createdAt": "2023-12-07T23:24:53.0433333",**

**"modifiedAt": null,**

**"averagePricePerNight": 0,**

**"reviews": [],**

**"hotelImages": [],**

**"rooms": []**

**},**

**{**

**"hotelId": 50,**

**"name": "Hotel2 in Jenin",**

**"starRating": 3,**

**"owner": "Owner20",**

**"location": "Location20",**

**"description": "Description for Hotel 50",**

**"cityId": 7,**

**"createdAt": "2023-12-07T23:24:53.0433333",**

**"modifiedAt": null,**

**"averagePricePerNight": 0,**

**"reviews": [],**

**"hotelImages": [],**

**"rooms": []**

**}**

**]**

* **Get Hotel by id : /api/hotels/{id}**

**Response body**

**Download**

**{**

**"hotelId": 31,**

**"name": "Hotel1 in Jerusalem",**

**"starRating": 4,**

**"owner": "Owner1",**

**"location": "Location1",**

**"description": "Description for Hotel 31",**

**"cityId": 1,**

**"createdAt": "2023-12-07T23:24:53.0433333",**

**"modifiedAt": null,**

**"averagePricePerNight": 105,**

**"reviews": [**

**{**

**"reviewId": 1,**

**"userId": 2,**

**"comment": "Comment from User 2",**

**"rating": 4,**

**"datePosted": "2023-12-09T14:29:52.8766667"**

**},**

**{**

**"reviewId": 9,**

**"userId": 3,**

**"comment": "Comment from User 3",**

**"rating": 4,**

**"datePosted": "2023-12-09T14:30:26.42"**

**}**

**],**

**"hotelImages": [**

**{**

**"imageId": 1,**

**"imageUrl": "image1.jpg"**

**}**

**],**

**"rooms": [**

**{**

**"roomId": 12,**

**"adultCapacity": 2,**

**"childrenCapacity": 1,**

**"pricePerNight": 100,**

**"hotelId": 31,**

**"roomType": 0,**

**"description": "Description for room 12",**

**"createdAt": "2023-12-07T23:24:53.0233333",**

**"modifiedAt": "2023-12-09T12:26:47.3731182",**

**"numberOfRooms": 3,**

**"roomImages": [],**

**"deals": []**

**},**

**{**

**"roomId": 13,**

**"adultCapacity": 3,**

**"childrenCapacity": 2,**

**"pricePerNight": 80,**

**"hotelId": 31,**

**"roomType": 1,**

**"description": "Description for room 13",**

**"createdAt": "2023-12-07T23:24:53.0233333",**

**"modifiedAt": "2023-12-09T13:09:27.8556183",**

**"numberOfRooms": 3,**

**"roomImages": [],**

**"deals": []**

**},**

**{**

**"roomId": 14,**

**"adultCapacity": 4,**

**"childrenCapacity": 1,**

**"pricePerNight": 150,**

**"hotelId": 31,**

**"roomType": 2,**

**"description": "Description for room 14",**

**"createdAt": "2023-12-07T23:24:53.0233333",**

**"modifiedAt": null,**

**"numberOfRooms": 3,**

**"roomImages": [],**

**"deals": []**

**},**

**{**

**"roomId": 47,**

**"adultCapacity": 3,**

**"childrenCapacity": 2,**

**"pricePerNight": 90,**

**"hotelId": 31,**

**"roomType": 1,**

**"description": "Description for room 47",**

**"createdAt": "2023-12-07T23:24:53.0233333",**

**"modifiedAt": null,**

**"numberOfRooms": 1,**

**"roomImages": [],**

**"deals": []**

**}**

**]**

**}**

* **Create Hotel : /api/hotels**“Authorized by Admin”

**Request body example :**

**{**

**"name": "new hotel",**

**"starRating": 4,**

**"owner": "owner",**

**"location": "location",**

**"description": "Description",**

**"cityId": 1,**

**}**

**Response body**

**Download**

**{**

**"message": "Hotel Created successfully"**

**}**

**}**

* **Update hotel by id : /api/hotels/{id}**“Authorized by Admin”

**Request body example :   
{**

**}**

**"name": "updated",**

**"starRating": 3,**

**"owner": " updated ",**

**"location": " updated ",**

**"description": " updated ",**

**"cityId": 1**

**}**

**Response body**

**Download**

**{**

**"message": "Hotel updated successfully"**

**}**

**}**

* **Delete hotel by id :**

**/api/hotels/{id}**“Authorized by Admin”

**Response body**

**Download**

**{**

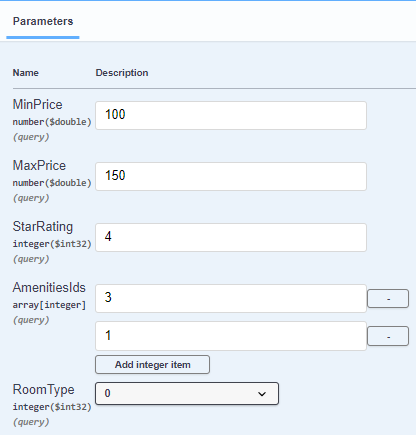
**"message": "Hotel deleted successfully"**

**}**

* Filter Hotels : /api/hotels/filter

“Authorized by Reguler User”

Request B



**Response body**

**Download**

**[**

**{**

**"hotelId": 31,**

**"name": "Hotel1 in Jerusalem",**

**"starRating": 4,**

**"owner": "Owner1",**

**"location": "Location1",**

**"description": "Description for Hotel 31",**

**"cityId": 1,**

**"createdAt": "2023-12-07T23:24:53.0433333",**

**"modifiedAt": null,**

**"averagePricePerNight": 105,**

**"reviews": [],**

**"hotelImages": [],**

**"rooms": [**

**{**

**"roomId": 12,**

**"adultCapacity": 2,**

**"childrenCapacity": 1,**

**"pricePerNight": 100,**

**"hotelId": 31,**

**"roomType": 0,**

**"description": "Description for room 12",**

**"createdAt": "2023-12-07T23:24:53.0233333",**

**"modifiedAt": "2023-12-09T12:26:47.3731182",**

**"numberOfRooms": 3,**

**"roomImages": [],**

**"deals": []**

**},**

**{**

**"roomId": 13,**

**"adultCapacity": 3,**

**"childrenCapacity": 2,**

**"pricePerNight": 80,**

**"hotelId": 31,**

**"roomType": 1,**

**"description": "Description for room 13",**

**"createdAt": "2023-12-07T23:24:53.0233333",**

**"modifiedAt": "2023-12-09T13:09:27.8556183",**

**"numberOfRooms": 3,**

**"roomImages": [],**

**"deals": []**

**},**

**{**

**"roomId": 14,**

**"adultCapacity": 4,**

**"childrenCapacity": 1,**

**"pricePerNight": 150,**

**"hotelId": 31,**

**"roomType": 2,**

**"description": "Description for room 14",**

**"createdAt": "2023-12-07T23:24:53.0233333",**

**"modifiedAt": null,**

**"numberOfRooms": 3,**

**"roomImages": [],**

**"deals": []**

**},**

**{**

**"roomId": 47,**

**"adultCapacity": 3,**

**"childrenCapacity": 2,**

**"pricePerNight": 90,**

**"hotelId": 31,**

**"roomType": 1,**

**"description": "Description for room 47",**

**"createdAt": "2023-12-07T23:24:53.0233333",**

**"modifiedAt": null,**

**"numberOfRooms": 1,**

**"roomImages": [],**

**"deals": []**

**}**

**]**

**},**

**{**

**"hotelId": 49,**

**"name": "Hotel1 in Jenin",**

**"starRating": 4,**

**"owner": "Owner19",**

**"location": "Location19",**

**"description": "Description for Hotel 49",**

**"cityId": 7,**

**"createdAt": "2023-12-07T23:24:53.0433333",**

**"modifiedAt": null,**

**"averagePricePerNight": 110,**

**"reviews": [],**

**"hotelImages": [],**

**"rooms": [**

**{**

**"roomId": 30,**

**"adultCapacity": 2,**

**"childrenCapacity": 1,**

**"pricePerNight": 100,**

**"hotelId": 49,**

**"roomType": 0,**

**"description": "Description for room 30",**

**"createdAt": "2023-12-07T23:24:53.0233333",**

**"modifiedAt": "2023-12-09T13:25:35.1831482",**

**"numberOfRooms": 1,**

**"roomImages": [],**

**"deals": []**

**},**

**{**

**"roomId": 46,**

**"adultCapacity": 2,**

**"childrenCapacity": 1,**

**"pricePerNight": 120,**

**"hotelId": 49,**

**"roomType": 0,**

**"description": "Description for room 46",**

**"createdAt": "2023-12-07T23:24:53.0233333",**

**"modifiedAt": null,**

**"numberOfRooms": 1,**

**"roomImages": [],**

**"deals": []**

**}**

**]**

**}**

**]**

* Feature Deals Hotels : /api/hotels/deals “Authorized by Reguler User”

Display hotels then have rooms that having available Deals .

**Response body**

**Download**

**[**

**{**

**"hotelId": 31,**

**"name": "Hotel1 in Jerusalem",**

**"starRating": 4,**

**"owner": "Owner1",**

**"location": "Location1",**

**"description": "Description for Hotel 31",**

**"cityId": 1,**

**"createdAt": "2023-12-07T23:24:53.0433333",**

**"modifiedAt": null,**

**"averagePricePerNight": 100,**

**"reviews": [],**

**"hotelImages": [],**

**"rooms": [**

**{**

**"roomId": 12,**

**"adultCapacity": 2,**

**"childrenCapacity": 1,**

**"pricePerNight": 100,**

**"hotelId": 31,**

**"roomType": 0,**

**"description": "Description for room 12",**

**"createdAt": "2023-12-07T23:24:53.0233333",**

**"modifiedAt": "2023-12-09T12:26:47.3731182",**

**"numberOfRooms": 3,**

**"roomImages": [],**

**"deals": [**

**{**

**"roomId": 12,**

**"dealPrice": 90,**

**"startDate": "2023-12-12T16:59:16.971",**

**"endDate": "2023-12-16T16:59:16.971"**

**}**

**]**

**}**

**]**

**}**

**]**

* Get Hotels Visited by User (select 3 hotels from the visited hotels by this user ) :

/api/hotels/visited-by-user/{userId}

“Authorized by Reguler User”

**Response body**

**Download**

**[**

**{**

**"hotelId": 31,**

**"name": "Hotel1 in Jerusalem",**

**"starRating": 4,**

**"owner": "Owner1",**

**"location": "Location1",**

**"description": "Description for Hotel 31",**

**"cityId": 1,**

**"createdAt": "2023-12-07T23:24:53.0433333",**

**"modifiedAt": null,**

**"averagePricePerNight": 0,**

**"reviews": [],**

**"hotelImages": [],**

**"rooms": []**

**},**

**{**

**"hotelId": 44,**

**"name": "Hotel2 in Nablus",**

**"starRating": 3,**

**"owner": "Owner14",**

**"location": "Location14",**

**"description": "Description for Hotel 44",**

**"cityId": 5,**

**"createdAt": "2023-12-07T23:24:53.0433333",**

**"modifiedAt": null,**

**"averagePricePerNight": 0,**

**"reviews": [],**

**"hotelImages": [],**

**"rooms": []**

**}**

**]**

1. Room End Points :

* Get All Rooms : /api/rooms

**Response body**

**Download**

**[**

**{**

**"roomId": 12,**

**"adultCapacity": 2,**

**"childrenCapacity": 1,**

**"pricePerNight": 100,**

**"hotelId": 31,**

**"roomType": 0,**

**"description": "Description for room 12",**

**"createdAt": "2023-12-07T23:24:53.0233333",**

**"modifiedAt": "2023-12-09T12:26:47.3731182",**

**"numberOfRooms": 3,**

**"roomImages": [**

**{**

**"imageId": 1,**

**"imageUrl": "image2.jpg"**

**},**

**{**

**"imageId": 2,**

**"imageUrl": "image2.jpg"**

**},**

**{**

**"imageId": 3,**

**"imageUrl": "image2.jpg"**

**},**

**{**

**"imageId": 4,**

**"imageUrl": "image2.jpg"**

**}**

**],**

**"deals": []**

**},**

**{**

**"roomId": 13,**

**"adultCapacity": 3,**

**"childrenCapacity": 2,**

**"pricePerNight": 80,**

**"hotelId": 31,**

**"roomType": 1,**

**"description": "Description for room 13",**

**"createdAt": "2023-12-07T23:24:53.0233333",**

**"modifiedAt": "2023-12-09T13:09:27.8556183",**

**"numberOfRooms": 3,**

**"roomImages": [],**

**"deals": []**

**},**

**{**

**"roomId": 14,**

**"adultCapacity": 4,**

**"childrenCapacity": 1,**

**"pricePerNight": 150,**

**"hotelId": 31,**

**"roomType": 2,**

**"description": "Description for room 14",**

**"createdAt": "2023-12-07T23:24:53.0233333",**

**"modifiedAt": null,**

**"numberOfRooms": 3,**

**"roomImages": [],**

**"deals": []**

**},**

**{**

**"roomId": 15,**

**"adultCapacity": 2,**

**"childrenCapacity": 1,**

**"pricePerNight": 120,**

**"hotelId": 34,**

**"roomType": 0,**

**"description": "Description for room 15",**

**"createdAt": "2023-12-07T23:24:53.0233333",**

**"modifiedAt": null,**

**"numberOfRooms": 3,**

**"roomImages": [],**

**"deals": []**

**}**

* Get room by id : /api/rooms/{id}

**Response body**

**Download**

**{**

**"roomId": 12,**

**"adultCapacity": 2,**

**"childrenCapacity": 1,**

**"pricePerNight": 100,**

**"hotelId": 31,**

**"roomType": 0,**

**"description": "Description for room 12",**

**"createdAt": "2023-12-07T23:24:53.0233333",**

**"modifiedAt": "2023-12-09T12:26:47.3731182",**

**"numberOfRooms": 3,**

**"roomImages": [**

**{**

**"imageId": 1,**

**"imageUrl": "image2.jpg"**

**},**

**{**

**"imageId": 2,**

**"imageUrl": "image2.jpg"**

**},**

**{**

**"imageId": 3,**

**"imageUrl": "image2.jpg"**

**},**

**{**

**"imageId": 4,**

**"imageUrl": "image2.jpg"**

**}**

**],**

**"deals": [**

**{**

**"roomId": 12,**

**"dealPrice": 90,**

**"startDate": "2023-12-12T16:59:16.971",**

**"endDate": "2023-12-16T16:59:16.971"**

**}**

**]**

**}**

**}**

* Create new Room : /api/rooms “Authorized by Admin”

Request body example :

**{**

**"adultCapacity": 2,**

**"childrenCapacity": 2,**

**"pricePerNight": 125,**

**"hotelId": 44,**

**"roomType": 1,**

**"description": "Description for this room .",**

**"numberOfRooms": 2**

**}**

**Response body**

**Download**

**{**

**"message": "Room Created successfully"**

**}**

**}**

* Update Room by id : /api/rooms/{id}“Authorized by Admin”

Request body example :

* **{**
* **"adultCapacity": 2,**
* **"childrenCapacity": 2,**
* **"pricePerNight": 130,**
* **"hotelId": 44,**
* **"roomType": 1,**
* **"description": "New Description for this room .",**
* **"numberOfRooms": 3**
* **}**

**Response body**

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**{**

**"message": "Room updated successfully"**

**}**

* Delete Room by id : /api/rooms/{id}“Authorized by Admin”
* **Response body**
* **Download**
* **{**
* **"message": "Room deleted successfully"**
* **}**

1. Deal End Points :

* Create new Deal :   
  /api/deals/create “Authorized by Admin”

Request body example :

**{**

**"roomId": 31,**

**"dealPrice": 89,**

**"startDate": "2023-12-20T06:52:06.351Z",**

**"endDate": "2023-12-31T06:52:06.351Z"**

**}**

##### Response body

**Download**

**Deal created successfully**

**eated successf**

**ully**

1. Booking End Points :

* Create new Booking :

/api/bookings “Authorized by Reguler User”

Reuest body example :

**{**

**"userId": 10,**

**"roomId": 31,**

**"checkInDate": "2023-12-28T06:58:16.140Z",**

**"checkOutDate": "2023-12-30T06:58:16.140Z"**

**}**

**Response body**

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**{**

**"message": "Booking Created successfully"**

**}**

**}**