#### 1. List All Hotels

Endpoint: /api/hotels

Method: GET

**Description:** Retrieves a list of all hotels.

# Response:

```
[
    "id": 1,
    "name": "Hotel Sunshine",
    "location": "New York",
    "bookings": []
},
{
    "id": 2,
    "name": "Ocean View",
    "location": "Los Angeles",
    "bookings": []
}
]
```

# 2. Filter Hotels by Location

Endpoint: /api/hotels/filter

Method: GET

# Query Parameters:

• location (string): The location to filter hotels by.

**Description:** Retrieves a list of hotels filtered by the specified location.

# **Example Request:**

GET /api/hotels/filter?location=New York

### Response:

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```
"id": 1,
  "name": "Hotel Sunshine",
  "location": "New York",
  "bookings": []
}
```

## 3. Get Unique Locations

Endpoint: /api/hotels/locations

Method: GET

**Description:** Retrieves a list of unique hotel locations.

## 4. Create a Booking

Endpoint: /api/hotels/:hotelld/bookings

Method: POST

#### **Path Parameters:**

• hotelld (integer): The ID of the hotel to create a booking for.

**Description:** Creates a new booking for the specified hotel.

**Request Body:** 

Response: 201 Created

5. List All Bookings

Endpoint: /api/bookings

Method: GET

**Description:** Retrieves a list of all bookings.

#### 6. Update a Booking

Endpoint: /api/hotels/:hotelId/bookings/:bookingId

Method: PUT

**Path Parameters:** 

- hotelld (integer): The ID of the hotel the booking belongs to.
- bookingId (integer): The ID of the booking to update.

**Description:** Updates the specified booking.

## 7. Delete a Booking

Endpoint: /api/hotels/:hotelld/bookings/:bookingld

**Method:** DELETE

#### **Path Parameters:**

- hotelld (integer): The ID of the hotel the booking belongs to.
- bookingId (integer): The ID of the booking to delete.

**Description:** Deletes the specified booking.

Response: 200 OK

## **Example Usage**

## **Creating a Booking**

To create a booking for a hotel with ID 1, make a POST request to /api/hotels/1/bookings with the following JSON body:

```
{
"userName":
string"John Doe"
"userAddress":
string"123 Main St, Springfield"
"numberOfRooms":
int2
"checkInDate":
string"2023-05-01"
"checkOutDate":
string"2023-05-05"
}
```

# **Listing All Bookings**

To list all bookings, make a GET request to /api/bookings.

# **Updating a Booking**

To update a booking with ID 1 for a hotel with ID 1, make a PUT request to /api/hotels/1/bookings/1 with the following JSON body:

```
{
"id":
int1
"hotelld":
int1
"userName":
string"John Doe"
"userAddress":
string"123 Main St, Springfield"
"numberOfRooms":
int2
"checkInDate":
string"2023-05-01"
"checkOutDate":
string"2023-05-05"
}
```

# **Cancel Booking**

To cancel a booking with ID 1 for a hotel with ID 1, make a DELETE request to /api/hotels/1/bookings/1.