# Hotel Management Website

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## 1) Rooms:

The Rooms collection holds information about each room in a hotel. It shows guests different types of rooms, how much they cost, and includes pictures of each room. For each room, there's a list of photo links that guests can click to see what the room looks like.

```
{
  "_id": "507f1f77bcf86cd799439011",
  "roomNumber": 101,
  "roomType": "single",
  "roomPrice": 120.00,
  "Availability": true,
  "roomPhotos": [
    "http://example.com/photos/101-1.jpg",
    "http://example.com/photos/101-2.jpg"
  ]
}
```

| Name | Type | Description |
|---|---|---|
| _id | string | A globally unique identifier to represent rooms |
| roomNumber | Number | Store the Room Number of each floors |
| roomType | String | It will show the type of rooms available (single, doubleor duplex) |
| roomPrice | Float | It stores the Price of the room per night |
| Avaibility | Boolean | This will store the status of room if its available or not in Boolean format |
| roomPhotos | Array | An array of string links which will show the photos of rooms |

## 2) Bookings:

The Bookings collection keeps track of all the hotel room reservations made by guests. For each booking, it records important details such as the booking ID, which room was booked, and the dates of the stay. This helps to make sure guests have all the information they need for their visit.

```
{
  "_id": "507f1f77bcf86cd799439014",
  "roomId": "rm102",
  "BookingDate": "2023-11-01",
  "CheckInDate": "2023-12-20",
  "CheckOutDate": "2023-12-27",
  "GuestName": "Rivaldo James",
  "GuestEmail": "rivaldo@example.com",
  "BookingStatus": "Confirmed"
}
```

| Name | Type | Description |
|------|------|-------------|
| _id | String | A globally unique identifier to represent bookings |
| roomId | String | Reference to the Rooms collection for the booked room. |
| BookingDate | String | The date when the booking is done |
| CheckInDate | String | The date of check-in according to the guest input |
| CheckOutDate | String | The date of Check-put according to the guest input |
| GuestName | String | Name of the guest to book the room by its name |
| GuestEmail | String | Email id for confirmation mail plus any future updates |
| BookingStatus | String | Indicating id the booking is confirmed cancelled or pending |

## 3) Users (For Staff members and Administrators) :

The Users collection is where we keep the login details for staff members and administrators. It includes usernames, passwords, and their roles, which can be either regular staff or admins. This helps with logging into the system to manage tasks.

```
{
  "_id": "507f1f77bcf86cd799439018",
  "UserName": "Rivaldo James",
  "Password": "TestPassword123",
  "Role": "admin"
}
```

| Name | Type | Description |
|------|------|-------------|
| _id | String | A globally unique identifier to represent Users |
| UserName | String | A login Username or userid |
| Password | String | Password for authentication |
| Role | String | Role of the employee( admin, staff or trainee) |

## 4) Feedback:

The Feedback collection is where we save what guests think about their stay at the hotel. It includes their ratings and any comments they have about the room or service, like how clean the room was or how quick the check-in went. This information helps the hotel understand what guests like and what can be improved.

```
{
  "_id": "507f1f77bcf86cd799439019",
  "BookingId": "507f1f77bcf86cd799439014",
  "ratings": 8,
  "Comment": "Great experience, the room was clean and service was excellent."
}
```

| Name | Type | Description |
|------|------|-------------|
| _id | String | A globally unique identifier to represent Feedback |
| BookingId | String | Reference to the Bookings collection for feedback |
| ratings | number | Guest ratings scaled from 0 to 10 |
| Comment | String | Guest feedback or review in a written format |

## 5) Hotel Photos:

The Hotel Photos collection functions similarly to a photo album for the hotel. It consists of many images of the hotel's interior and exterior, as well as the different rooms available. Guests can go through these photographs to gain a feel of the hotel before making a reservation.

```
{
  "id": "507f1f77bcf86cd799439011",
  "photos": [
    "https://example.com/photos/hotel1/photo1.jpg",
    "https://example.com/photos/hotel1/photo2.jpg",
    "https://example.com/photos/hotel1/photo3.jpg"
  ]
}
```

| Name | Type | Description |
|------|------|-------------|
| _id | String | A globally unique identifier to represent Hotel Photos |
| Photos | Array | A collection of string links of photos stored online |

## 6) Local Attractions:

The Local Attractions collection lists places close to the hotel that guests can visit. It includes all the attractions near by the hotel spot and each place has a description so guests can find something they'll enjoy.

```
{
   "id": "507f1f77bcf86cd799439020",
   "PlaceName": "Sunshine Park",
   "PlaceDescription": "A large urban park with playgrounds, a lake for boating, and extensive walking trails.",
   "Category": "Park"
}
```

| Name | Type | Description |
|---|---|---|
| id | String | A globally unique identifier to represent Local Attractions |
| PlaceName | String | Name of the local attraction place |
| PlaceDescription | String | A description of the place like what all you can do there |
| Category | String | A category like restaurant, park, waterpark etc |

## 7) Notifications:

The Notifications collection stores messages that are sent to guests to let them know their room booking is confirmed. Whenever someone books a room and pays for it, they will get a confirmation email from the hotel. This collection records those emails, which include the guest's email address and the message about their successful booking.

```
{
  "_id": "507f1f77bcf86cd799439023",
  "BookingId": "507f1f77bcf86cd799439014",
  "Email": "guest1@example.com",
  "Message": "Your booking has been successfully confirmed. Thank you for choosing our service!"
}
```

| Name | Type | Description |
|---|---|---|
| _id | String | A globally unique identifier to represent Notification |
| BookingId | String | Reference to the Bookings collection for Notifications |
| Email | String | Guest Email id to send the confirmation |
| Message | String | A confirmation Message to the user saying the booking is done |