

# PROJECT TITLE : Smart Hotel Booking Management System Using

## Phase 3: Data Modelling & Relationships

### 1. Standard & Custom Objects

- **Standard Objects we can leverage:**
- **User** → Roles like Admin, Front Desk, Manager
- **Custom Objects:**
  - ❖ **Guest (Guest\_\_c)** → Stores guest details

SETUP > OBJECT MANAGER

Guest

Details

Fields & Relationships

Page Layouts

Lightning Record Pages

Buttons, Links, and Actions

Compact Layouts

Field Sets

Object Limits

Record Types

Related Lookup Filters

Search Layouts

List View Button Layout

Restriction Rules

Details

Description

API Name

Guest\_\_c

Custom

✓

Singular Label

Guest

Plural Label

Guests

Enable Reports

✓

Track Activities

✓

Track Field History

✓

Deployment Status

Deployed

Help Settings

Standard salesforce.com Help Window

- ❖ **Booking (Booking\_\_c)** → Tracks guest bookings

SETUP > OBJECT MANAGER

Booking

Details

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Restriction Rules

Details

Description

API Name

Booking\_\_c

Custom

✓

Singular Label

Booking

Plural Label

Bookings

Enable Reports

✓

Track Activities

✓

Track Field History

✓

Deployment Status

Deployed

Help Settings

Standard salesforce.com Help Window

- **Room (Room\_\_c)** → Stores hotel room information

SETUP > OBJECT MANAGER  
**Room**

**Details** Edit Delete

Description

API Name  
Room\_Number\_\_c

Custom  
✓

Singular Label  
Room

Plural Label  
Rooms

Enable Reports  
✓

Track Activities  
✓

Track Field History  
✓

Deployment Status  
Deployed

Help Settings  
Standard salesforce.com Help Window

Fields & Relationships  
Page Layouts  
Lightning Record Pages  
Buttons, Links, and Actions  
Compact Layouts  
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Record Types  
Related Lookup Filters  
Search Layouts

- ❖ **Payment (Payment\_\_c)** → **Payment is used** to record and manage the financial transaction for booking a room, ensuring the hotel receives the correct amount, tracks what has been paid, what is due, and provides a record for accounting, refunds, or audits.

SETUP > OBJECT MANAGER  
**Payment**

**Details** Edit Delete

Description

API Name  
Payment\_\_c

Custom  
✓

Singular Label  
Payment

Plural Label  
Payments

Enable Reports  
✓

Track Activities  
✓

Track Field History  
✓

Deployment Status  
Deployed

Help Settings  
Standard salesforce.com Help Window

Fields & Relationships  
Page Layouts  
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Search Layouts  
List View Button Layout  
Restriction Rules

**Payment**  
**PAY-0002** New Contact Edit New Opportunity

**Related** **Details**

Payment ID  
**PAY-0002**

Booking  
[John Doe – 101](#)

Amount  
₹100,000

Method  
Card

Status  
Paid

Created By  
[Shaik Yasmin](#), 9/20/2025, 10:05 AM

Owner  
[Shaik Yasmin](#)

Last Modified By  
[Shaik Yasmin](#), 9/20/2025, 10:05 AM

2. Fields: **Guest (Guest\_\_c)**

Field	Data Type	Details
Guest Name	Text	Record Name
Date of Birth	Date	
Email	Email	
Phone	Phone	
Address	Text Area	
Nationality	Picklist	Indian, American, European, Other
ID Proof	Picklist	Passport, Aadhaar, Driving License, Other
ID Proof Number	Text	
Loyalty Status	Picklist	Regular, Silver, Gold, VIP
Number of Bookings	Number	Auto-calculated or manual
Owner	Lookup(User, Group)	Record owner
Created By	System	Auto
Last Modified By	System	Auto

SETUP > OBJECT MANAGER

Guest

Details

Fields & Relationships

12 Items, Sorted by Field Label

Q. Quick Find

New

Deleted Fields

Field Dependencies

Set History Tracking

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Address	Address__c	Rich Text Area(32768)		<div></div>
Created By	CreatedById	Lookup(User)		
Email	Email__c	Email (Unique)		<div>✓</div> <div></div>
Guest name	Guest_name__c	Text(80)		<div></div>
Guest Name	Name	Text(80)		<div>✓</div> <div></div>
ID Proof	ID_Proof__c	Picklist		<div></div>
Last Modified By	LastModifiedById	Lookup(User)		
Loyalty Status	Loyalty_Status__c	Picklist		<div></div>
Nationality	Nationality__c	Picklist		<div></div>
Number of Bookings	Number_of_Bookings__c	Number(3, 0)		<div></div>
Owner	OwnerId	Lookup(User,Group)		<div>✓</div>
Phone	Phone__c	Phone		<div></div>

❖ **Booking (Booking\_\_c)**

Field	Data Type	Details
Booking Name	Text	Record Name
Guest	Lookup(Guest)	Links Booking to Guest
Room	Lookup(Room)	Links Booking to Room (Required)

Field	Data Type	Details
Room Number	Text	Auto-filled from Room
Check-in Date	Date	
Check-out Date	Date	
Status	Picklist	Confirmed, Pending, Completed, Cancelled
Payment	Picklist	Paid, Unpaid, Partial
Payment Method	Picklist	Cash, Card, Online
Owner	Lookup(User, Group)	Record owner
Created By	System	Auto
Last Modified By	System	Auto

SETUP > OBJECT MANAGER <b>Booking</b>				
Details	<b>Fields &amp; Relationships</b> 12 Items, Sorted by Field Label			
<b>Fields &amp; Relationships</b>	<input type="text" value="Quick Find"/> <input type="button" value="New"/> <input type="button" value="Deleted Fields"/> <input type="button" value="Field Dependencies"/> <input type="button" value="Set History Tracking"/>			
Page Layouts	<b>FIELD LABEL</b>	<b>FIELD NAME</b>	<b>DATA TYPE</b>	<b>CONTROLLING FIELD</b>
Lightning Record Pages	Booking Name	Name	Text(80)	INDEXED ✓
Buttons, Links, and Actions	Check-in Date	Check_in_Date__c	Date	
Compact Layouts	Check-out Date	Check_out_Date__c	Date	
Field Sets	Created By	CreatedById	Lookup(User)	
Object Limits	Guest	Guest__c	Lookup(Guest)	INDEXED ✓
Record Types	Guest Name	Guest_Name__c	Text(100)	
Related Lookup Filters	Last Modified By	LastModifiedById	Lookup(User)	
Search Layouts	Owner	OwnerId	Lookup(User,Group)	INDEXED ✓
List View Button Layout	Payment	Payment__c	Picklist	
Restriction Rules				

## Room (Room\_\_c)

Field	Data Type	Details
Room Number	Text	Unique, required
Room Type	Picklist	Standard, Deluxe, Suite, VIP
Floor	Number	Optional
Price	Currency	Room rate
Status	Picklist	Available, Booked, Maintenance
Owner	Lookup(User, Group)	Record owner
Created By	System	Auto

**Room**

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Details
Fields & Relationships
Page Layouts
Lightning Record Pages
Buttons, Links, and Actions
Compact Layouts
Field Sets
Object Limits
Record Types
Related Lookup Filters
Search Layouts
List View Button Layout
Restriction Rules
Scoping Rules
Object Access

### Fields & Relationships

12 Items, Sorted by Field Label

Name	Type	Relationship	Required	Action
Amenities	Amenities__c	Picklist (Multi-Select)		[Dropdown]
Bed Type	Bed_Type__c	Picklist		[Dropdown]
Created By	CreatedById	Lookup(User)		
Currency	Currency__c	Currency(18, 0)		[Dropdown]
Floor Number	Floor_Number__c	Number(18, 0)		[Dropdown]
Last Modified By	LastModifiedById	Lookup(User)		
Owner	OwnerId	Lookup(User,Group)	✓	
Record Type	RecordTypeId	Record Type	✓	
Room	Room_c__c	Lookup(Room)	✓	[Dropdown]
Room Name	Name	Text(80)	✓	[Dropdown]
Room Type	Room_Type__c	Picklist		[Dropdown]
Status	Status__c	Picklist		[Dropdown]

Quick Find
[New](#)
[Deleted Fields](#)
[Field Dependencies](#)
[Set History Tracking](#)

## Rooms — Record Types

- | Record Type Label | Description           | Active | Notes                     |
|-------------------|-----------------------|--------|---------------------------|
| Standard Room     | Regular single/double | True   | Used for normal rooms     |
| Standard Room1    | Luxury suite room     | True   | Used for luxury suites    |
| Suite Room        | (No description)      | True   | Likely for premium suites |

[SETUP](#) > [OBJECT MANAGER](#)

## Room

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[Details](#)
[Fields & Relationships](#)
[Page Layouts](#)
[Lightning Record Pages](#)
[Buttons, Links, and Actions](#)
[Compact Layouts](#)
[Field Sets](#)

### Record Types

3 Items, Sorted by Record Type Label

RECORD TYPE LABEL	DESCRIPTION	ACTIVE	MODIFIED BY
<a href="#">Standard Room</a>	Regular single/double	✓	<a href="#">Shaik Yasmin</a> , 9/20/2025, 10:45 AM
<a href="#">Standard Room1</a>	Luxury suite room	✓	<a href="#">Shaik Yasmin</a> , 9/20/2025, 10:45 AM
<a href="#">Suite Room</a>	Luxury suite room	✓	<a href="#">Shaik Yasmin</a> , 9/20/2025, 10:45 AM

## 4. Page Layouts:

### Guest Layout

- Personal Info: Guest Name, DOB, Nationality, Email, Phone, Address
- Loyalty Info: Loyalty Status, Number of Bookings
- ID Proof: ID Proof Type, ID Proof Number
- System Info: Created By, Last Modified By, Owner

SETUP > OBJECT MANAGER

Guest

Details

Fields & Relationships

Page Layouts

Lightning Record Pages

Buttons, Links, and Actions

Page Layouts

1 Items, Sorted by Page Layout Name

Q. Quick Find

New

Page Layout Assignment

PAGE LAYOUT NAME	CREATED BY	MODIFIED BY
Guest Layout	Shaik Yasmin, 9/19/2025, 12:40 AM	Shaik Yasmin, 9/21/2025, 6:42 AM

### Booking Layout

- Information: Booking Name, Guest, Room, Room Number, Status, Payment, Payment Method, Check-in Date, Check-out Date
- System Info: Created By, Last Modified By, Owner

SETUP > OBJECT MANAGER

Booking

Details

Fields & Relationships

Page Layouts

Lightning Record Pages

Buttons, Links, and Actions

Page Layouts

1 Items, Sorted by Page Layout Name

Q Quick Find

NewPage Layout Assignment

PAGE LAYOUT NAME	CREATED BY	MODIFIED BY
Booking Layout	Shaik Yasmin, 9/19/2025, 12:39 AM	Shaik Yasmin, 9/20/2025, 9:37 AM

### Room Layout

- Room Details: Room Number, Room Type, Floor, Price, Status
- System Info: Created By, Last Modified By, Owner

SETUP > OBJECT MANAGER

Room

Details

Fields & Relationships

Page Layouts

Lightning Record Pages

Buttons, Links, and Actions

Compact Layouts

Page Layouts

2 Items, Sorted by Page Layout Name

Q. Quick Find

New

Page Layout Assignment

PAGE LAYOUT NAME	CREATED BY	MODIFIED BY	
Room Layout	Shaik Yasmin, 9/19/2025, 12:41 AM	Shaik Yasmin, 9/21/2025, 9:49 AM	
Standard Room Layout	Shaik Yasmin, 9/21/2025, 6:31 AM	Shaik Yasmin, 9/21/2025, 9:49 AM	

## 5. Compact Layouts:

This ensures that users see the most critical record information at a glance in the highlight panel.

**Guest Compact Layout:** Guest Name, Loyalty Status, Number of Bookings, Phone, Email

SETUP > OBJECT MANAGER

Guest

Details

Fields & Relationships

Page Layouts

Lightning Record Pages

Buttons, Links, and Actions

Compact Layouts

Field Sets

Object Limits

Record Types

Guest Compact Layout

Guest Compact Layout.

< Back to Guest

Compact Layout Detail

EditCloneDeleteCompact Layout Assignment

Label

Guest Compact Layout.

Object Name

Guest

API Name

Guest\_Compact\_Layout

Included Fields

Loyalty Status  
Number of Bookings  
Phone  
Email  
Guest Name  
Nationality  
ID Proof

Created By

Shaik Yasmin, 9/21/2025, 9:42 AM

Modified By

Shaik Yasmin, 9/21/2025, 9:42 AM

EditCloneDeleteCompact Layout Assignment

**Booking Compact Layout:** Booking Name, Guest, Room, Check-in, Check-out, Status

SETUP > OBJECT MANAGER

Booking

Details

Fields & Relationships

Page Layouts

Lightning Record Pages

Buttons, Links, and Actions

Compact Layouts

Field Sets

Object Limits

Record Types

Related Lookup Filters

Search Layouts

Booking Compact Layout

Booking Compact Layout

< Back to Booking

Compact Layout Detail

EditCloneDeleteCompact Layout Assignment

Label

Booking Compact Layout

Object Name

Booking

API Name

Booking\_Compact\_Layout

Included Fields

Booking Name  
Check-in Date  
Check-out Date  
Guest Name  
Status

Created By

Shaik Yasmin, 9/19/2025, 3:45 AM

Modified By

Shaik Yasmin, 9/19/2025, 3:46 AM

EditCloneDeleteCompact Layout Assignment

**Room Compact Layout:** Room Number, Room Type, Price, Status

SETUP > OBJECT MANAGER

Room

Details

Fields & Relationships

Page Layouts

Lightning Record Pages

Buttons, Links, and Actions

Compact Layouts

Field Sets

Object Limits

Record Types

Related Lookup Filters

Search Layouts

Room Compact Layout

Room Summary

< Back to Room

Compact Layout Detail

EditCloneDeleteCompact Layout Assignment

Label

Room Summary

Object Name

Room

API Name

Room\_Summary

Included Fields

Bed Type  
Currency  
Floor Number  
Room  
Room Name  
Room Type  
Status

Created By

Shaik Yasmin, 9/21/2025, 7:09 AM

Modified By

Shaik Yasmin, 9/21/2025, 7:10 AM

EditCloneDeleteCompact Layout Assignment

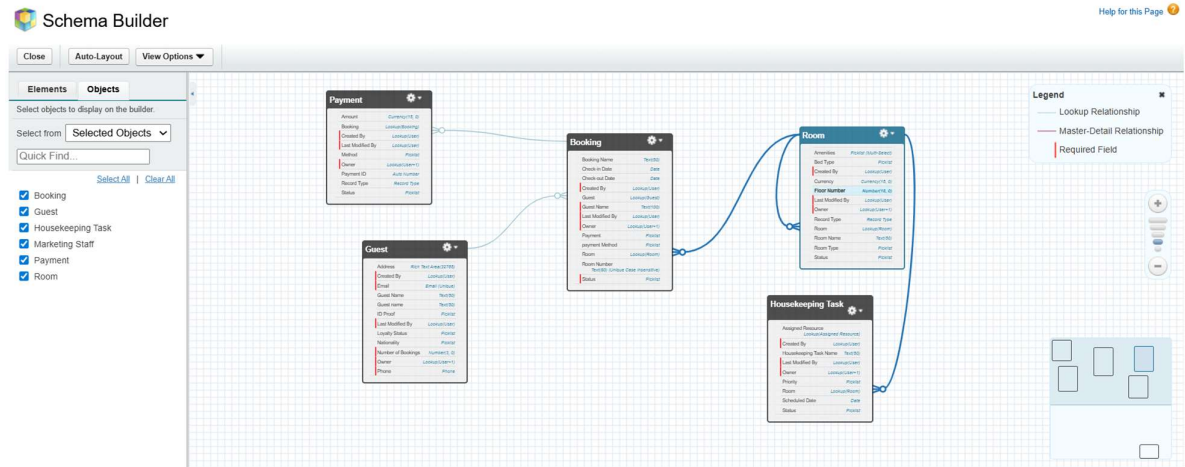
**6)Schema Builder Schema View**

☐ Guest → Booking → Room

□ **Relationships:**

- Booking lookup to Guest
- Booking lookup to Room

☐ Bookings appear in Guest Related List and Room Related List



## 7. Junction Objects:

No junction objects created, junction objects could be added for advanced scenarios like if we want to track **multiple Customers linked to a single Claim** or if we want to link a **single Investigation to multiple Claim**.

## 8. External Objects:

No external Objects created, could be added for real-time fraud scoring by connecting Salesforce with external transaction data sources.