



# Bunk'O'Bed

-Make your stay away from home feel like home

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## Domain classes:

- I. User
- II. Host
- III. Guest
- IV. Property listings
- V. Rating
- VI. Transaction
- VII. Admin
- VIII. Photographers
- IX. Queries
- X. Costumer support
- XI. Travel agencies
- XII. Meeting
- XIII. Refund
- XIV. Rented properties
- XV. Bulk bookings

Host ,Guest and Travel agencies subclasses of User

## Associations and Multiplicity:

Admin **Manages** User ( 1 to 1..\* )

User **Has** User details ( 1 to 1 )

Host **Adds a** property listings ( 1 to 1..\* )

Guest **Books a** Property listing (1 to \* )

Property listing **Added to** Rented Properties ( 1 to \* )

Guest **Initiates** transaction ( 1 to \* )

Travel agency **Initiates** Transaction ( 1 to \* )

Transaction **Forwards to** Host ( 1 to 1 )

User **Makes a** Queries ( 1 to \* )

Queries **Resolved by** Customer support ( 1 to 1..\* )

Customer support **initiates** Refund ( 1 to \* )

Refund **Requires** Transaction ( 1 to 1 )

User **Has a** Rating (1 to 1)

Property **Has a** Rating ( 1 to 1 )

Host **Hires a** photographer ( 1 to \* )

Meeting **Scheduled with** admin ( 1 to 1 )

Travel agency **calls for a** meeting ( 1 to 1 )

Travel agency **requests** bulk bookings ( 1 to \* )

## **Attributes:**

### **1. User**

- User ID
- Password
- Name
- Number of blacklists

### **2. User details**

- Bank account details
- Aadhar number
- PAN card ID
- Email id
- Phone number

### **3. Guest**

- Number of bookings made

### **4. Host**

- Number of properties registered

### **5. Travel Agency**

- Government Registration ID
- Number of bookings made

## 6. Rating

- Number of stars
- Comments

## 7. Customer support

- Staff ID
- Location
- Rating
- Languages spoken

## 8. Refund

- Issue
- Guest ID

## 9. Queries

- Type of Query
- Grievance
- User contact details
- Status

## 10. Photographers

- Photographer ID
- Name
- Location

## 11. Admin

- Admin ID
- Position of responsibility
- Password

## 12. Meeting

- Meeting ID
- Travel agency ID
- Date
- Time

## 13. Bulk bookings

- Travel agency
- Number of people
- Duration of travel
- Accommodation type

## 14. Property listing

- Property ID
- City
- Address

- Type of property
- Host ID

#### 15. Rented Property

- Property ID
- Guest ID
- Booking dates
- Cost of booking

#### 16. Rented Properties

- Property ID
- Guest ID
- Booking dates
- Cost of Booking

### **Functions:**

1. User:
  - Get\_userID()
2. Guest:
  - Calculate\_cost()
3. Transaction:
  - Get\_bank\_details()
  - With\_hold\_payment()
  - Make\_payment(mode)
4. Queries:
  - Categorise()
  - Check\_status()
5. Travel agency:
  - Calculate\_cost()
6. Host:
  - Notify\_host()
7. Customer support:
  - Change\_status()
8. Refund:
  - Set\_refund(amount)



