



# 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 are 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. Transaction

- Transaction ID
- Amount
- Mode

### **Functions:**

#### 1. User:

- Get\_userID()
- Cancel\_booking()
- Make\_payment()

#### 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()
- Hire\_photographers()

#### 7. Customer support:

- Change\_status()

#### 8. Refund:

- Set\_refund(amount)

#### 9. User details

- getBankdetails()

#### 10. Property listings

- Get\_cost\_per\_day()

#### 11. Ratings

- Addtosuslist()

#### 12. Rented Property

- Get\_booking\_dates()

#### 13. Meeting

- Block\_date\_time(userid,adminid)

#### 14. Admin

- Modify\_blacklist(user)
- Ban(user)

## CRC:

Class	Attributes	Functions	Collaborations
User	<ul style="list-style-type: none"><li>• User ID</li><li>• Password</li><li>• Name</li><li>• Number of blacklists</li></ul>	<ul style="list-style-type: none"><li>•Get_userID()</li><li>•Raise_query()</li></ul>	<ul style="list-style-type: none"><li>•User details</li><li>•Admin</li><li>•Queries</li><li>•Ratings</li></ul>
User details	<ul style="list-style-type: none"><li>•Bank account details</li><li>•Aadhar number</li><li>• PAN card ID</li><li>• Email id</li><li>• Phone number</li></ul>	<ul style="list-style-type: none"><li>•getBankdetails()</li></ul>	<ul style="list-style-type: none"><li>•User</li></ul>
Guest	<ul style="list-style-type: none"><li>• Number of bookings made</li></ul>	<ul style="list-style-type: none"><li>•Cancel_booking()</li><li>•Make_payment()</li></ul>	<ul style="list-style-type: none"><li>•Property listings</li><li>•Transaction</li></ul>
Host	<ul style="list-style-type: none"><li>• Number of properties registered</li></ul>	<ul style="list-style-type: none"><li>• Notify_host()</li><li>•Hire_photographers()</li></ul>	<ul style="list-style-type: none"><li>•Property listings</li><li>•Photographers</li><li>•Transaction</li></ul>
Travel agency	<ul style="list-style-type: none"><li>• Government Registration ID</li><li>• Number of bookings made</li></ul>	<ul style="list-style-type: none"><li>• Calculate_cost()</li></ul>	<ul style="list-style-type: none"><li>•Transaction</li><li>•Meetings</li><li>•Bulk bookings</li></ul>
Rating	<ul style="list-style-type: none"><li>• Number of stars</li><li>• Comments</li></ul>	<ul style="list-style-type: none"><li>• Addtosuslist()</li></ul>	<ul style="list-style-type: none"><li>•User</li><li>•Property listings</li></ul>
Customer support	<ul style="list-style-type: none"><li>• Staff ID</li><li>• Location</li><li>• Rating</li><li>• Languages spoken</li></ul>	<ul style="list-style-type: none"><li>• Change_status()</li></ul>	<ul style="list-style-type: none"><li>•Refund</li><li>•Queries</li></ul>
Refund	<ul style="list-style-type: none"><li>• Issue</li><li>• Guest ID</li></ul>	<ul style="list-style-type: none"><li>• Set_refund(amount)</li></ul>	<ul style="list-style-type: none"><li>•Customer support</li><li>•Transaction</li></ul>
Queries	<ul style="list-style-type: none"><li>• Type of Query</li><li>• Grievance</li><li>• User contact details</li><li>• Status</li></ul>	<ul style="list-style-type: none"><li>• Categorise()</li><li>• Check_status()</li></ul>	<ul style="list-style-type: none"><li>•Customer support</li><li>•User</li></ul>
Photographers	<ul style="list-style-type: none"><li>• Photographer ID</li><li>• Name</li><li>• Location</li></ul>		<ul style="list-style-type: none"><li>•Host</li></ul>
Admin	<ul style="list-style-type: none"><li>• Admin ID</li><li>• Position of responsibility</li><li>• Password</li></ul>	<ul style="list-style-type: none"><li>•Modify_blacklist(user)</li><li>• Ban(user)</li></ul>	<ul style="list-style-type: none"><li>•User</li><li>•Meeting</li></ul>

Meeting	<ul style="list-style-type: none"> <li>• Meeting ID</li> <li>• Travel agency ID</li> <li>• Date</li> <li>• Time</li> </ul>	<ul style="list-style-type: none"> <li>• Block_date_time(userid,adminid)</li> </ul>	<ul style="list-style-type: none"> <li>•Travel agency</li> <li>•Admin</li> </ul>
Bulk bookings	<ul style="list-style-type: none"> <li>• Travel agency</li> <li>• Number of people</li> <li>• Duration of travel</li> <li>• Accommodation type</li> </ul>		<ul style="list-style-type: none"> <li>•Travel agency</li> </ul>
Property listing	<ul style="list-style-type: none"> <li>• Property ID</li> <li>• City</li> <li>• Address</li> <li>• Type of property</li> <li>• Host ID</li> </ul>	<ul style="list-style-type: none"> <li>• Get_cost_per_day()</li> </ul>	<ul style="list-style-type: none"> <li>•Host</li> <li>•Rented property</li> </ul>
Rented Property	<ul style="list-style-type: none"> <li>• Property ID</li> <li>• Guest ID</li> <li>• Booking dates</li> <li>• Cost of booking</li> </ul>	<ul style="list-style-type: none"> <li>• Get_booking_dates()</li> </ul>	<ul style="list-style-type: none"> <li>•Property listings</li> </ul>
Transaction	<ul style="list-style-type: none"> <li>•Transaction ID</li> <li>•Amount</li> <li>•Mode</li> </ul>	<ul style="list-style-type: none"> <li>•with_hold_payment()</li> <li>•make_payment(mode)</li> </ul>	<ul style="list-style-type: none"> <li>•Travel Agency</li> <li>•Guest</li> <li>•Host</li> <li>•Refund</li> </ul>





