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# CREATION OF ER DIAGRAM FOR ONLINE HOTEL BOOKING SYSTEM

**Aim :-**

To design a ER Diagram for a given scenario

**Description :-**

**Entity :**

An entity is a real world object or concept that has data or information associated with it.

In a database, an entity is represented as a table & each row in a table represents a specific instance of that entity.

examples of entities in a bookstore system are "book" & "customer".

**Attributes :-**

Attributes are characteristics or properties of an entity that describe it or provide information about it.

In a database table, attributes are represented as columns & each column stores a specific type of data related to the entity.

Example, in "Book" entity, attributes are Title, Author, Price.

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Relationship :-

A relationship defines how 2 or more entities are connected or linked to each other within a database.

It specifies how data in one entity relates to data in another entity.

Relationships can be one-to-one, one-to-many, or many-to-many depending on how instances of entities are associated with eachother.

Example, "Customer places Order" relationship signifies that one customer can place many orders (one-to-many).

Given Scenario :-

Entities :

* User
* Hotel
* Room
* Booking
* Payment
* Feedback

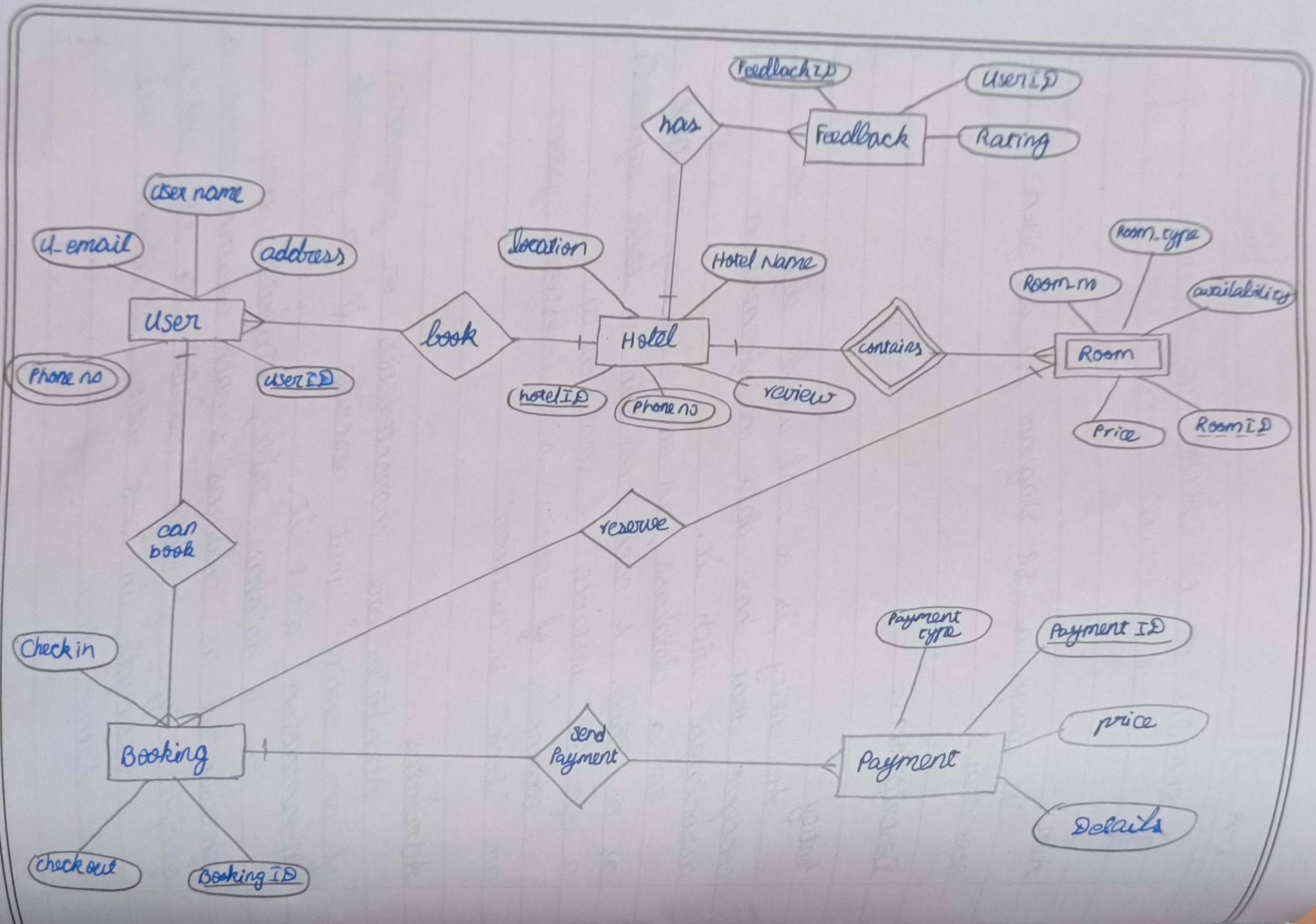
Attributes :-

* User (User_ID, User_name, User_email, phone_no, addres
* Hotel (hotelID, hotel name, contact no, location, review)
* Room (Room_No, room type, RoodID, availability, price)
* Booking (bookingID, check in, check out, userID (foreign key), roomID (foreign key)
* Payment (PaymentID, Payment_Type, price, details)

* Feedback (FeedbackID, UserID, rating, hotelID (foreign key))

Relationships :-

* Many users can book one hotel (Many to one)
* One hotel can be booked by many users (one to many)
* One hotel has many rooms (one to many).
* In one booking one can reserve multiple rooms (one to many).
* Many payments can be made on single booking (many to one).
* For hotels users can give feedback (one to zero)/(many to many)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# CREATION OF ER DIAGRAM FOR ONLINE MOVIE TICKET BOOKING SYSTEM.

**Aim :-**

To design a ER-Diagram for a given Scenario.

**Given Scenario :-**

**Entities :-**

* User
* Theatre
* Seats
* Showtime
* Movie
* Booking
* Payment
* Ticket

**Attributes :-**

* User (UserID, username, email, phone_no, password)
* Theatre (TheatreID, Theatre name, Location, contact no)
* Seats (Seat_category, seat_no).
* Showtime (Duration, start time, end_time).
* Movie (Title, Genre, release date, duration).
* Booking (BookingID, UserID (foreign key), Movie name, theatre ID (foreign key), checkin page, checkout pag
* Payment (Payment ID, price, payment type)
* Ticket (Seat no (foreign key), showtime, theatre (foreign key QR code).

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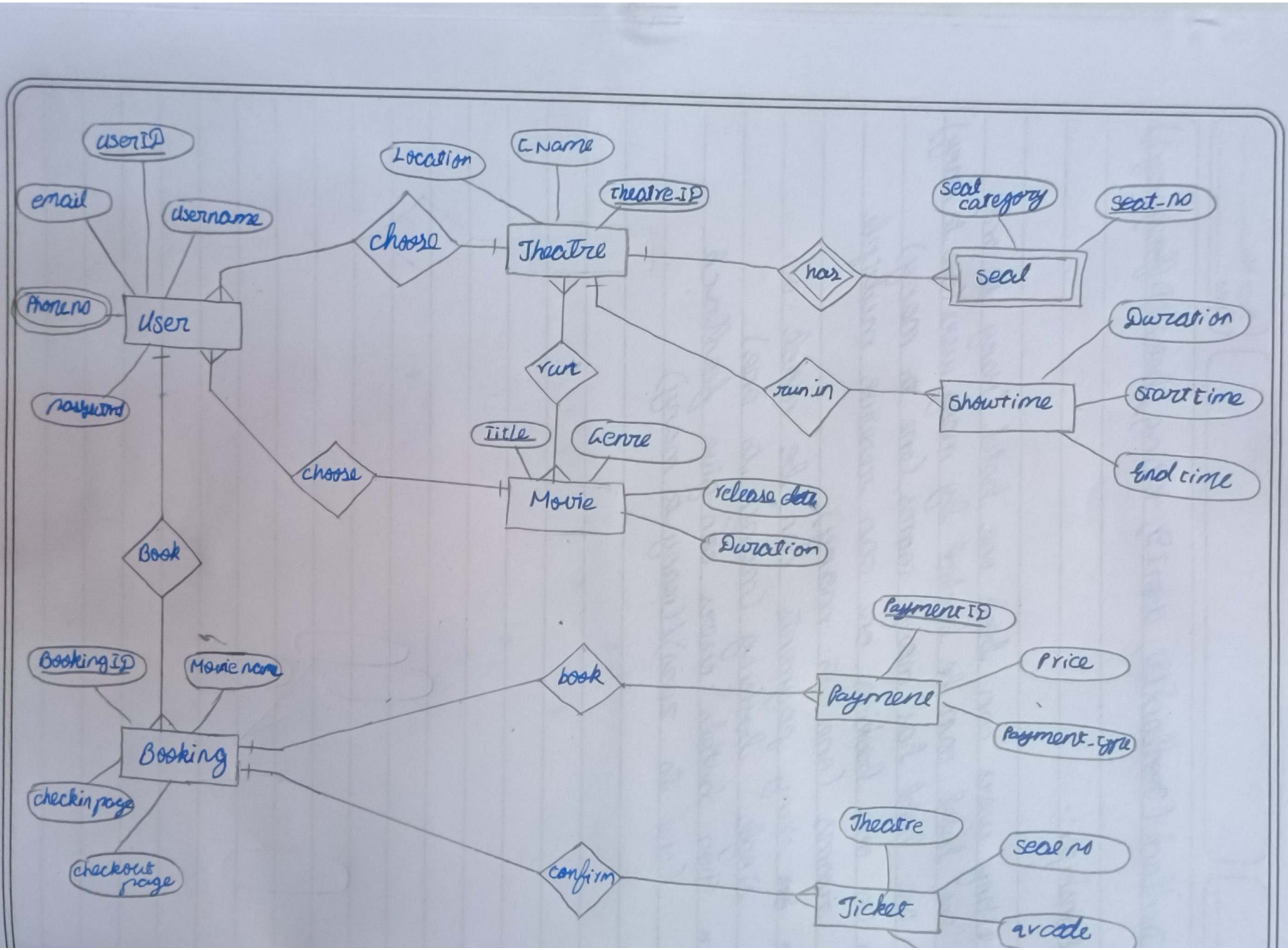
Relationships :-

* Many users choose one theatre (many-to-one).
* Many users choose one movie (many-to-one).
* Theatre has many seats (one-to-many).
* Theatre has many showtimes (one to many).
* One user can do many bookings (one-to-many).
* Many payments can be made on one booking (many-to-one).
* Many Tickets confirmed by one booking (many-to one).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Book
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Theatre
seat no
Ticket
qr code