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Phase 1: ER Diagram

PricePerDay
imageLink
duration
bookingDate
bill
coName
roomno
rewardpts
companyID
address
date
cost
History
address
Maintenance Co
Repairs
Room
Customers
BookRequest
phoneno
Requests repairs
ViewInfo
dateEst
location
Hotel
offers
hName
ISA
hID
Managers
manage
salary
eduDegree
User
email
password
userID
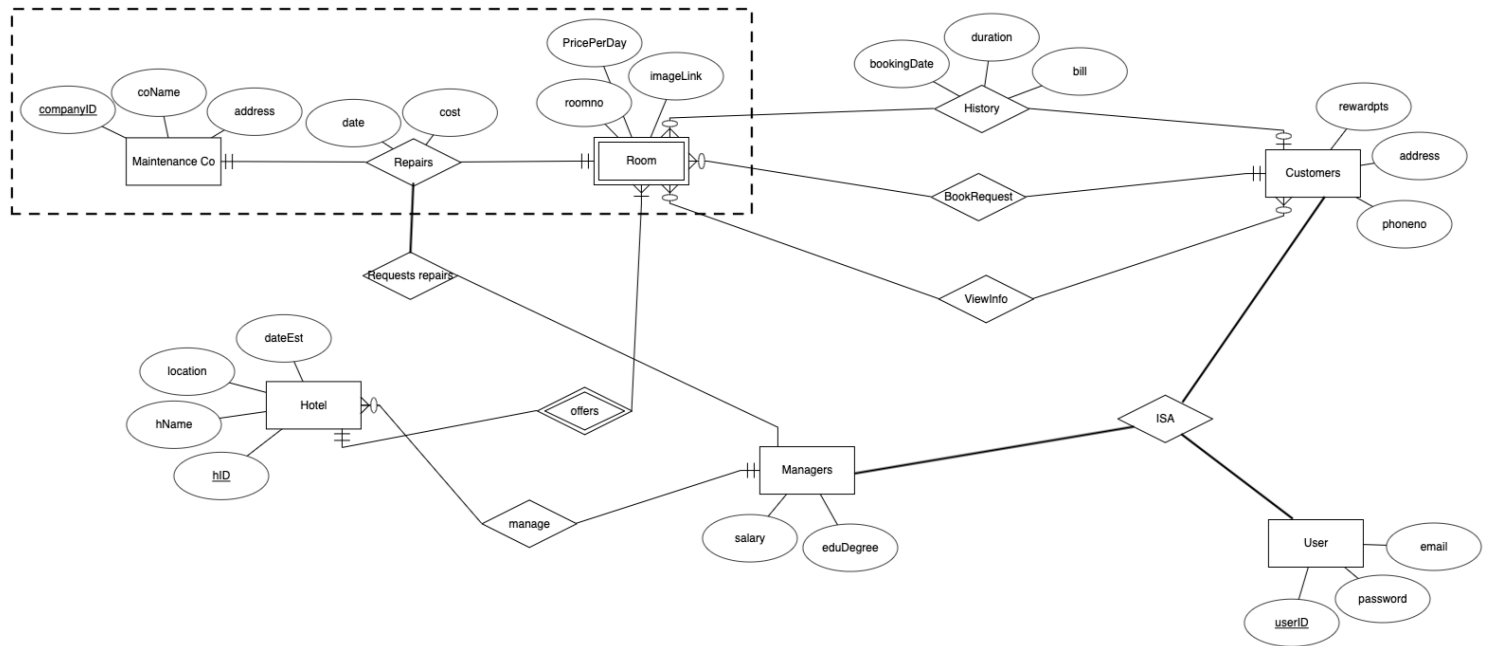
Constraints:
- (1 to 1) A hotel is managed by one manager.
- (1 to many) A manager can manage multiple hotels.
- (1 to 1) A room must be reserved by 1 customer.
- (1 to many) A customer can book multiple rooms.
- (many to many) Managers can place more than one maintenance request for the rooms in which they are managing.
- (1 to 1) A maintenance company is assigned one room maintenance request.
- (1 to 1) A room is repaired by at most 1 maintenance company.
- (1 to many) A hotel can offer multiple rooms.
- (many to many) Customers can view the information of many rooms.
- (1 to many) A customer can view the history of the rooms they booked.

Assumptions:
- A manager can manage more than one hotel.
- A customer can book more than one room.
- A maintenance company can handle multiple maintenance requests.

- A room maintenance request can be placed by more than one manager.
- A customer can view the booking history of any amount of rooms they have booked, but a room's booking history can only be viewed by one customer (as a room can only be reserved by at most one customer).
- A room must only be reserved by one customer.