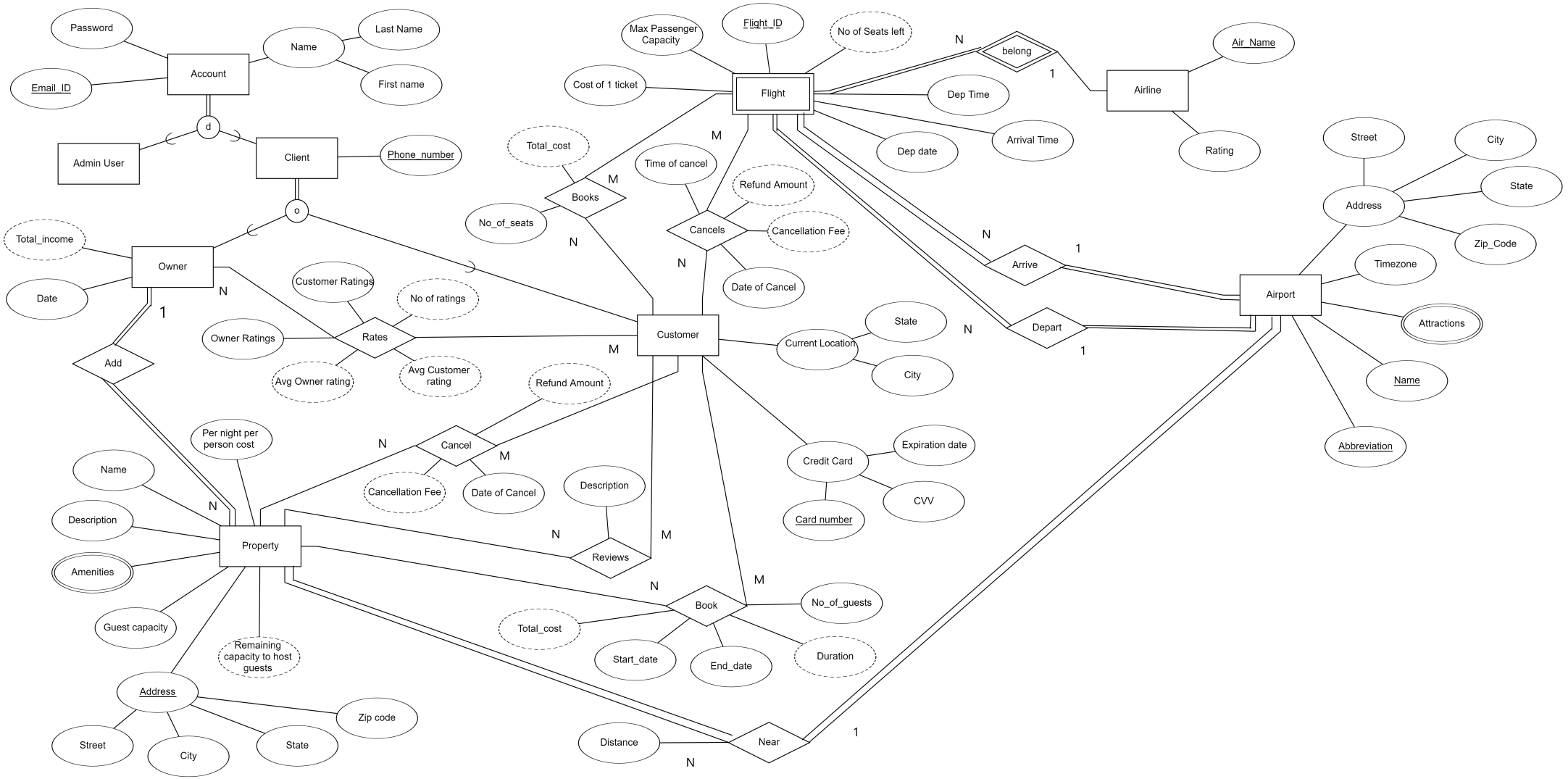
Password
Email_ID
Account
Name
Last Name
First name
d
Admin User
Client
Phone_number
o
Total_income
Date
Owner
N
1
Add
Per night per person cost
Name
Description
Amenities
Guest capacity
Remaining capacity to host guests
Address
Street
City
State
Zip code
Property
Customer Ratings
No of ratings
Owner Ratings
Rates
Avg Owner rating
Avg Customer rating
Total_cost
No_of_seats
Books
M
N
Time of cancel
Refund Amount
Cancels
Cancellation Fee
Date of Cancel
Customer
M
Refund Amount
N
Cancel
M
Cancellation Fee
Date of Cancel
Description
N
Reviews
M
N
Book
M
Total_cost
Start_date
End_date
No_of_guests
Duration
Distance
N
Near
1
Max Passenger Capacity
Flight_ID
No of Seats left
Cost of 1 ticket
Flight
M
Dep Time
Dep date
Arrival Time
N
belong
1
Airline
Air_Name
Rating
N
Arrive
1
Depart
1
N
Current Location
State
City
Credit Card
Expiration date
CVV
Card number
Airport
Street
City
State
Address
Zip_Code
Timezone
Attractions
Name
Abbreviation

LIST OF ASSUMPTIONS

1. The statement “Every flight departs from an airport and arrives at an airport.”
    a. This mentions about the total participation of flights for arrival and depart relationship with an airport but does not clearly specify if a particular airport supports arrival as well as departure facility.
    There can be possibility where an airport can allow only either of those (one such possibility can be a flight arrives but always goes empty to some other airport and then takes off for a legitimate journey).
    b. Hence, we assumed an ideal scenario where each flight arrives as well as departs from the same of the airport.
    c. This design impacted our decision in a way that led to total participation of ‘Airport’ entity with ‘Arrive’ and ‘Depart’ relation with ‘Flight’ entity.

2. The statement “The owners will add their properties to our system,”
    a. The unclear aspect of this statement was whether an owner needs to always own at least one property in order to maintain his owner status.
    Can he/she be an owner by not owning a property for a certain time period?
    b. We decided that owner must always own a property at any given point of time to symbolise that that client is an ‘owner’. He may always further add more properties but during data creation he must own property/properties.
    c. This decision impacted our design in such a way that led to total participation of ‘Owner’ entity on a relationship ‘Add’ with entity ‘Property’.

3. The statements “If a customer wants to cancel their flight booking at **any time before** their flight” and “At **any time before** their stay begins, customers may also cancel their property booking(s).”
    a. There is ambiguity that whether a customer will always cancel before the start date (or arrival time in case of flights). There can be a possibility if a customer wants to cancel after the start date to vacate the seats/occupancy despite losing all the money.
    b. We decided to resolve this conflict by adding attributes ‘Time of Cancel’ and ‘Date of Cancel’ for Flights and ‘Date of Cancel’ for Properties booking.
    c. This decision has impacted our design in such a way that there will always be an entry in the database relating to the time/date of cancelation.
    Therefore, system can always check with the cancellation date/time it is before the start date in case of property, and before departure date and time in case of flights.
    If it is true, 'Cancellation fee will be charged to the customer and amount will refunded. Both are taken as derived attributes in ‘Cancel’ relationship.
    If it is false, no amount will be refunded and, in case of ‘Property’, remaining occupancy will be restored and updated.
    Hence, to calculate remaining occupancy for a property we added a derived attribute to the ‘Property’ entity named as ‘Remaining capacity to host guests’.