DMDD Group 3

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Changes made to the initial ERD

We will categorize the changes made to the initial ERD into three types viz. entities, attributes and relationships and explain the reasons for the same:

1) Entities

Added the following entities to keep track of the transaction and legal documents in a better way.

a) Rent Transaction:
- Added: Rent Transaction ID, Rent ID, Customer ID, Monthly Amount, Transaction Date, Transaction Status

b) Sell Transaction:
- Added: Sell Transaction ID, Sell ID, Customer ID, Selling Price, Transaction Date, Transaction Status

c) Rent Legal Documents:
- Added: Rent Transaction ID, Document ID, Agreement Date, Lease Start Date, Lease End Date, Terms and Conditions

d) Sell Legal Documents:
- Added: Sell Transaction ID, Document ID, Sale Deed, Mortgage approval, Agreement Date, Terms and Conditions

2) Attributes

Added/Removed attributes to make the model less redundant.

a) Customer:
- Removed: Budget Range, Wishlist
- Added: Budget Min, Budget Max, Customer ID

b) Messages:
- Removed: Sender ID, Receiver ID
- Added: Lister ID, Customer ID

c) Lister:
- Added: Lister ID

d) Customer:
- Added: Customer ID

e) Amenities:
- Removed: Laundry, Trash

f) Property:
- Added: Lister ID, Zip code

g) Listing:
- Removed: Lister ID

h) Reviews:
- Removed: Review Type

i) User:
- Removed: Profile Picture
- Added: User Type

3) <u>Relationships</u>

a) Modified the many to many relationships between the Customer and Reviews and changed it to one to many.
Reason: Since many customers cannot have a single review.

b) Modified the relationship for Messages entity.
Reason: Connected it between Lister and Customer to better define the sender and receiver in the relation.

c) Modified the relationship between User and Property and Listing.
Reason: Connected Property to Lister instead of User to handle the ListerID attribute and removed the direct connection between Lister and Listing.

d) Modified the relationship between Customer and Transaction entities.
Reason: To handle the Buyer and Seller between whom the transaction takes place, connected the Transaction to Customer and classified it according to rent or sell.

e) Modified the relationship between Legal Document and Transaction as well
Reason: To track different legal documents associated with each of the rent and sell transactions.