(8/3/19)

Relational Schema Assumptions:

1. Pets have a discrete ‘species\_id’ attribute which refers to a PetSpecies table which has all the different animal species/types (e.g. ‘Dog’), as well as a discrete ‘weight\_class\_id’ attribute which refers to a WeightClasses table which has all the different weight classes {<2.5kg, 2.5-5.0kg, etc.} (similar to the example website given)
2. Pets also have a ‘breed’ attribute. Not sure to put this as another table which is weak-entity related to species, or is that too troublesome (to enumerate all possible breeds for all species). As of now, ‘breed’ is just a varchar(50) attribute, this means that **there is an assumption that the ‘breed’ provided makes sense with the ‘species\_id’.**
3. No chat from any user X to some user Y can happen at the same time (smallest interval 1 microsecond)
4. Chats from/to a deleted user will be deleted as well.

Suggested Changes to Relational Schema:

1. There should be a relation “Caretakes” that should be between Pet and Caretaker, instead of another relation called “Accepts” between Owner and Caretaker. I believe accepting a bid should not be recorded in a relation, but should instead be an attribute inside “Bid”. Also, I believe that each pet for the same owner should get their own entries in “Caretakes”, instead of just having one entry for the owner-caretaker.

Changes to-do:

1. password and phoneNumber attribute in “Users” may need its field changed.
2. Availability should refer to another relation called “Services” as well as refer to “PetSpecies” and “WeightClasses”.

(14/03/19)

I have not implemented AcceptedBids but I am currently referring to it with Reviews and Payments.

Changes made:

1. Added some key and total constraints to the ER diagram.
2. Removed some ON UPDATE CASCADE for any reference to username as username should not be updated.
3. Removed some ON DELETE CASCADE/SET NULL for any reference to PetSpecies and WeightClass as I am not sure how we should handle that yet. (this is to prevent removal at the moment.)
4. Removed PetBreed table (agreed in chat to remove breed entirely)
5. Added service\_type\_id field to OfferedCares table, and removed all “offers” related stuff from Caretaker.
6. Made all table names plural (just to standardize things).
7. Changed the aggregation.
8. Changed the connection of Reviews and Payment.
9. Introduced ID fields for Availabilities and Bid, for the Accepted
10. Uppercased all special keywords.