CS2102 Project Preliminary Constraints

Team 14

Team Members

- Roby Tanama
- Jon Chua
- Sean Low
- Clarence Kohl
- See Zi Yang

ER Diagram Constraints

General User Constraints

- 1) username cannot be NULL
- 2) password cannot be NULL

General Caretaker Constraints

- 1) isPartTime cannot be NULL
- 2) Can care for ≥1 Pet Category

Full-Time Caretaker Constraints

- 1) Full-time Caretaker must work for a minimum of 2 x 150 consecutive days_a year (since it includes weekends, so there are plenty of leave days available)
- 2) Full-time Caretaker are treated as available until they apply for leave
- 3) Full-Time Caretaker cannot apply for leave if there is at least one Pet under their care.
- 4) Full-time Caretaker have a limit of up to 5 Pet at any one time
- 5) Salary cannot be lower than base price determined by PCS Admin
- 6) Full-Time Caretaker will receive a salary of \$3000 per month for up to 60 pet-days. For any excess pet-day, they will receive 80% of their price as bonus.

Part-Time Caretaker Constraints

- Part-time Caretaker, should have their current year's and the next year's availability specified, both cannot be NULL
- 2) 75% is paid to Part-time Caretaker (25% is paid to PCS Admin)

- 3) Part-time Caretaker cannot take care of more than 2 Pet unless they have a good rating (>= 4.0)
- 4) Cannot have more than 5 Pet regardless of rating

PCS Admin Constraints

1) Receives 25% from Part-Time Caretaker

Pet Owner Constraints

- 1) Pet Owner can own 0 or more pets
- 2) Pet Owner can bid for multiple Caretakers
- 3) Pet Owner can bid for multiple Caretakers for each pet

Pet Constraints

- 1) Pet must be owned by a Pet Owner
- 2) Pet must have only 1 Category
- 3) Pet can have 0 or more Special Requirements

Payment Constraints

1) Payment Type cannot be NULL

Review Constraints

- 1) Rating cannot be NULL
- 2) Pet Owner can only post Review after the care-taking Period

Transaction Constraints

1) Transfer method cannot be NULL

Prices Constraints

1) Base Daily Price cannot be NULL

Salary Constraints

- 1) Month cannot be NULL
- 2) Year cannot be NULL

Bid Constraints

- 1) Successful Bidder chosen by Caretaker, however, Full-Time Caretakers must accept job if available
- 2) Once a bid is accepted, other bids' isActive is changed to false for the same Caretaker in the same Period