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Chapter 3 practice assignments

1. The pet foster and adoption shelter have some major issues with their current system. The major issue currently is most of the documentation is on paper which can be easy to lose or misplace. This issues with their paper form have culminated in some volunteers never be called, along with losing where animals are. Another issue is that some caregivers never turn in their monthly reports, which cause the shelter not knowing where these caregivers are and the number of foster pets they have.
2. The pet foster and adoption shelter have the following stakeholders: the volunteers that come, the staff of the shelter, the caregivers of the foster animal, the animals themselves and the management of the shelter.
3. Animals should be considered a part of the stakeholder for the shelter, but they shouldn’t be a major stakeholder. Animals/ pet should be a stakeholder in the database because the database affects them. The affect the database has on them might cause them not to get adopted since the adopter can know current and past conditions of the animal. Not only can the adopter know the condition, the adopter can also know the breed of the animal, with this knowledge the adopter might not chose that animal. Though since the animals do not interact with the database, they should not be a major stakeholder.
4. The volunteers should enter personal info such as phone number, address, first name, last name, and the type of animals they would like to foster, this should be done online. The caregivers for the shelter should be allowed to their name, address, the number of foster pets they have and any medical issues their foster pets. The staff of the shelter should be able to see volunteer information to do an appropriate background check on the and then add them to the list of available caregivers if they passed the background check. The staff should also be to see monthly report made by the caregivers along with the medical history of each animal. Staff at the shelter should also be able to see all the information regarding each animal. Management at the shelter should be able to see all the information in the database.
5. The following are business rules that should be implemented into the shelter’s database.
   * Volunteers should enter their information online
   * Staff should do a background check on the volunteers
   * A list of available volunteers should be able to be pulled up by the staff and management
   * The list of volunteers should include the information the volunteers entered online
   * All animals of a certain type and breed should be able to be brought by the staff, along with the animal’s location and their caregiver.
   * Current caregiver should enter a monthly report for each animal in their care.
   * Medical history of the animal should be seen by the management and staff of the shelter
   * Medical history should include item such as current and past issue, if the pet takes any medication, condition of the animal, etc.…
   * The monthly reports for the animals should include the address, current condition, breed, species and name of the pet.
   * Staff and management should see the report cards that the caregivers enter into the database
   * Staff and management should also know how many foster pets each caregiver has
   * Staff should also enter adopter information in case the adopter wants to get another pet in the future.
   * Management and staff should also see the adopter information that was entered
6. The future database will have some security issues that might appear. The major issue that might appear will be unauthorized personal access tables that they should not access to. Another issue is that staff and management will be able to see personal information of volunteers, caregiver and adoptees. This issue will be hard to fix because staff and management needs to have access to the personal information to be able to call the caregivers, volunteers and adoptees.
7. The following is a list of nouns in description for the shelter.
   * 1. Pet
     2. Caregiver
     3. Staff
     4. Adopter
     5. Volunteer
     6. Management
8. The major entities for the shelter database are the following.
   * 1. Animal
     2. Staff
     3. Caregiver
     4. Adopter
     5. Volunteer
     6. Management
     7. Animal medical history
9. Attributes for the entities for the database are the following.
   * Animal
     1. Species
     2. Breed
     3. Name
     4. Sex
     5. Condition
     6. Medical History ID
     7. ID for current owner or foster
   * Volunteer
     1. First name
     2. Last name
     3. Address
     4. Phone number
   * Staff
     1. Hours available
     2. First name
     3. Last name
     4. Phone number
     5. Address
   * Management
     1. First name
     2. Last name
     3. Phone number
     4. Address
   * Adopter
     1. First name
     2. Last name
     3. Address
     4. Species preference
     5. Breed preference
   * Caregiver
     1. Caregiver ID
     2. Amount of foster pet
     3. Address
     4. First name
     5. Last name
   * Pet medical history
     1. Medical ID
     2. On medicine or not on medicine
     3. Amount of medical procedures
     4. Current condition
     5. Past conditions
10. The following could be a candidate key for the shelter’s database.
    * The animal’s name
    * Management’s name
    * The pet’s medical history should be an artificial key called medical id.
    * Another artificial key for the caregiver called caregiver id
    * First and last name for caregiver
    * A staff’s name could be another key
    * An artificial key for the adopter
    * Combination of the first and last name for the adopter