**INFO 5707 SECTION 006 - DATA MODELING FOR INFORMATION PROFESSIONALS**

**PROJECT DESIGN PHASE**

**TITLE: - PET ADOPTION HUB USING MYSQL**

## Group Members

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**OBJECTIVE AND SCOPE OF THE DATABASE:**

**Objectives:**

* To manage the data related to a pet shelter, including pets, staff, veterinarians, donors, fosters, adoption applications, and medical records.
* To allow for easy tracking and management of pets in the shelter, including their breed, age, gender, and location.
* To facilitate communication between staff, veterinarians, and fosters to ensure the best care for the pets.
* To track donations from donors and manage the donation history of each donor.
* To manage adoption applications and track the status of each application.
* To track medical records for each pet, including vaccinations and treatments.

**Scope:**

* The database will be used to manage data for a single pet shelter.
* The database will include tables for pets, staff, veterinarians, donors, fosters, adoption applications, and medical records.
* The database will allow for easy tracking and management of pets in the shelter, including their breed, age, gender, and location.
* The database will include functionality to manage communication between staff, veterinarians, and fosters to ensure the best care for the pets.
* The database will track donations from donors and manage the donation history of each donor.
* The database will manage adoption applications and track the status of each application.
* The database will track medical records for each pet, including vaccinations and treatments.

## SPECIFIC USER REQUIREMENTS:

## The shelter staff should be able to view and manage information about the animals in their care, including their names, breeds, genders, ages, and medical records.

## Foster volunteers should be able to view information about the animals they are caring for, as well as manage their own information and availability.

## Donors should be able to make contributions to the shelter and view information about their past donations.

## Adoption applicants should be able to submit applications for specific animals, and shelter staff should be able to view and manage these applications.

## Veterinarians should be able to view and manage medical records for the animals they have treated.

## Shelter staff should be able to view and manage information about the shelter's facilities, including its name, address, phone number, and staff members.

## Shelter staff should be able to assign animals to foster volunteers, and update these assignments as needed.

## Shelter staff should be able to track the status of adoption applications, and update these statuses as needed.

## Donors should be able to view information about the shelter's financial needs and make donations to specific programs or initiatives.

## BUSINESS RULES:

## The database is designed to manage data related to an animal shelter, including information about pets, staff, donors, fosters, veterinarians, adoptions, medical records, and more.

## Each pet must be associated with a specific shelter, and may also be associated with a foster caregiver.

## Staff members are associated with a specific shelter, and may have a title and phone number.

## Veterinarians have unique identifiers and are associated with medical records for pets they treat.

## Donors provide information about their contact details, donation date, and the amount donated.

## Fosters provide information about their name, phone number, email address, start and end dates of their fostering period, and foster status.

## Adoption applications may be submitted for specific pets, and include the applicant's name, contact details, and application status.

## Medical records include information about pets' medical treatment and vaccinations, as well as the veterinarian who provided the treatment.

## Each pet must have a unique identifier, name, breed, gender, and age.

## The database is designed to be scalable and easily maintainable, with foreign key constraints and referential integrity enforced to ensure data consistency.

## ENTITY-RELATIONSHIP DIAGRAM (ERD):

## Diagram Description automatically generated

## DATA DICTIONARY:

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