**INFO 5707 Section 006 - Data Modeling for Information Professionals**

**PROJECT PROPOSAL**

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

**OBJECTIVE AND SCOPE OF THE DATABASE:**

* The Pet Adoption Hub aims to create an efficient database that will help manage the animal adoption process. This system will allow shelters, potential adopters, and staff to interact with each other in a comprehensive platform to ensure successful adoptions and animal welfare. The adoption process will involve filling out an application, screening, meeting the pet, and completing adoption paperwork.
* The database's scope includes managing information about pets available for adoption, adoption processes, shelter details, staff details, veterinarian appointments, donor and donation history, and foster program details. The staff can efficiently manage and maintain the database using the system, and potential adopters can search for pets, schedule visits, and complete the adoption process. Additionally, the database will allow the shelter to track donation history and manage foster pet programs.

## SPECIFIC USER REQUIREMENTS:

1. Adopters: They can browse the pets available for adoption and apply to adopt a pet.

* They can view a list of available pets, along with their details.
* They can search for pets by breed, age, gender, and size.
* They can register an account to apply for a pet they are interested in.
* They can view the status of their adoption application.

1. Shelter Staff: They can manage the pets available for adoption, adoption applications, and communication with adopters.

* They can add, update, and delete pet information, including all pet details.
* They can manage adoption applications by reviewing, approving, and rejecting them.
* They can communicate with adopters through the system.
* They can view reports on adoption statistics.

1. Veterinarians: They can manage the medical records of the pets in the shelter.

* They can view and update the medical records of pets in the shelter.
* They can record medical treatments and procedures.
* They can schedule appointments with adopters for post-adoption checkups.

1. Foster: Foster Parents can foster pets temporarily and update their status.

* They can view a list of pets available for fostering.
* They can apply to foster a pet.
* They can update the status of the pet they are fostering, including medical information.
* They can communicate with shelter staff regarding the pet's status.

1. Donors: They will be able to access information about the shelter's mission, programs, and initiatives.

* Donors will have the option to select the type and amount of donation they wish to make.
* Donors will be able to view their donation history.
* Donors will be able to update their personal information and communication preferences within the system.

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## CHOICE OF DBMS:

* MySQL is an excellent option for a Pet Adoption System due to its popularity as an open-source relational database management system (RDBMS). With a large community of developers and users, MySQL is renowned for its scalability, reliability, and ease of use. Additionally, it is an ideal option for web-based applications, making it an excellent choice for a Pet Adoption System that may include an online component. Due to its integration capabilities with various programming languages, MySQL is an ideal choice for developing a web-based application.