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

**PROJECT PROPOSAL**

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

## Group Members:

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**OBJECTIVE AND SCOPE OF THE DATABASE:**

* The objective of the Pet Adoption System is to create a database that enables efficient management of the adoption process for animals. The system aims to provide a comprehensive platform that facilitates the interaction between shelters, potential adopters, and staff, with the ultimate goal of ensuring successful adoptions and animal welfare. The adoption process includes filling out an application, screening potential adopters, meeting the pet, and completing adoption paperwork.
* The scope of the database includes managing information related to pets available for adoption, adoption processes, shelter details, staff details, veterinarian appointments, donor and donation history, and foster program details. The system will enable staff to manage and maintain the database efficiently, while potential adopters can search for suitable pets, schedule visits, and complete the adoption process. The database will also enable the shelter to keep track of donation history and manage foster pet programs.

## SPECIFIC USER REQUIREMENTS:

1. Adopters: They can browse pets available for adoption and submit an application to adopt a pet.

* View a list of available pets for adoption, including pet details and photos.
* Search for pets based on breed, age, gender, and size.
* Register an account to submit an adoption application for a pet they are interested in.
* View the status of their adoption application.

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

* Add, update, and delete pet information, including pet details and photos.
* Manage adoption applications, including reviewing, approving, and rejecting applications.
* Communicate with adopters through the system.
* View reports on adoption statistics.

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

* View and update the medical records of pets in the shelter.
* Record medical treatments and procedures.
* Schedule appointments with adopters for post-adoption checkups.

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

* View a list of pets available for fostering.
* Apply to foster a pet.
* Update the status of the pet they are fostering, including medical information and photos.
* Communicate with shelter staff regarding the pet's status.

1. Administrators: They can manage user accounts, shelter information, and system settings.

* Add, update, and delete user accounts with different access levels.
* Manage shelter information, including contact details and available services.
* Configure system settings, such as email notifications and security settings.
* Generate reports on system usage and performance.

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## CHOICE OF DBMS:

* MySQL is a good choice for a Pet Adoption System. MySQL is a popular open-source relational database management system (RDBMS) that is widely used and has a large community of developers and users. It is known for its scalability, reliability, and ease of use. Additionally, MySQL is well-suited for web-based applications, which is ideal for a Pet Adoption System that may have an online component. MySQL has good integration capabilities with various programming languages, which makes it an ideal choice for developing a web-based application.