Application Design Document

CSC 450 Capstone Project

## Application name

Pet Adoption Platform

## Application description

Helps animal shelters match pets with owners or foster homes.

## What problem(s) would this application solve?

* Give animal shelters a way to let the public know which pets they currently have available for adoption or foster care.
* Give people who want to adopt or foster a pet a way to see which pets are available in their area.
* Allow the public to communicate with animal shelters to get more information about available pets or the adoption process.
* Allow animal shelters to automate the collection of information for adopters.

## Who would be a target user for this application?

* Animal shelter staff
* Pet adopters

## What is the primary purpose of this application?

* To facilitate the pet adoption process, making it easier to match pets with adopters.

## Possible features of this application

* User registration and log in
* Animal shelter can register on platform with basic information (name, address, phone number, email address, types of pets they have available, etc.)
* Animal shelter can list pets for adoption
* Adopters can register on platform, providing information like name, phone number, email address, type of pets they’re looking for, household information, etc.
* Adopters can browse available pets.
* Adopters can send messages to shelters.
* Shelters can read and respond to messages from adopters.
* Adopters can submit applications for adoption.

## What are some potential user stories for this application?

* As an animal shelter administrator, I want to list the pets I have available so that I can find a good home for each of them.
* As a person who wants to adopt a pet, I want to see the pets that are available in my area so that I can make an informed decision.

## Front end (user interface) design

Pages

* Login / Sign up
* Home / Dashboard
* Shelter Details
* Animal Details
* Messages
* Create / Edit Listing

## Back end design

* Functions
* Logic flow
* API endpoints

## Database design

* Entities
* Relationships
* Primary / foreign keys
* Entity-relationship diagram (ERD)