

Project: cuACS
 Deliverable #1
 Christine Laurendeau

Problem Description:

Animal shelters provide a crucial service for the homeless animals awaiting adoption into a loving home. The problem is we want an easy E- shelter system to connect the best possible pet with the customer's (client) needs.

Requirements Analysis:

- Managing a list of adoptable animals and with detailed profile for each animal.
- Managing human clients with a full profile for each client.
- Managing and providing optimal set of animals matches the clients' needs or demands.

Users:

• Clients:

- View a detailed profile information about selected pet
- Edit their own profiles
- Has two types of info in their profiles:
 - **Personal information**
 - Name
 - Age
 - SIN/ Monthly income (to know whether they can take care of the animal or not)
 - Police check
 - **Matching preferences**
 - Type of pet
 - If dogs! → service dogs attribute might be implemented later.
 - Size of pet
 - Temperament of pet (active, lazy, or calm pet?)
 - Age
 - Colour
 - Situation (is the client ok with a disabled pet or not?)

• Shelter staff:

- View list of all pets
- Details about selected pet and has the ability to edited any information

- Add new pet
- Remove a pet or pets
- View clients' profiles and edit any if needed
- Add new client/s
- Remove clients when needed
- Launch the animal-client matching (ACM) algorithm to compute the optimal set of animals for clients

Pets Attributes: An inheritance relationship might be necessarily applied with types of each pet!

- Type of pet (dog, cat or bird)
 - If dog → type of dog (husky, german shepherd ,...)
 - Same goes for Cat type and bird
- Age
- Colour
- Size
- Status (adopted or not)
- Temperament of pet (Active, lazy, ..etc)
- Situation (is the pet disabled?, has one eye, three legs .. etc)