

Brainstorming:

- Adopters can sign into the pet adoption website with their email and password
- Adopters can create/update/delete profile
- Adopters can view a list of animals for adoption
- Adopters can submit animals for adoption

Tables

- Adopters: this table contains user information
- Auth: this contains user credentials for logging in
- Animals: this table holds details about every animal
- Species: this table holds information various species/ animal types
- Breeds: This table holds information of different animal breeds of all the species
- Adoptions This table contains information about every adoption that that takes places

Relationships

- One to one
 - Adopter to auth
- One to many
 - Species to Animals
 - Species to Adopters
 - Species to Breeds
 - Animals to Adoptions
 - Adopters to Adoptions
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- Many to many
 - Animals to Adopters

Columns

- Adopters
 - id - unique identifier for all adopters; integer allows for automatic auto incrementation
 - first_name - varchar(50); holds personal information for the adopter
 - last_name - varchar(50); holds personal information for the adopter
 - email - varchar(100); holds personal information for the adopter
 - phone - varchar(20); holds personal information for the adopter
 - address - varchar(100) holds personal information for the adopter
 - city - varchar(50) holds personal information for the adopter
 - state - varchar(2) holds personal information for the adopter
 - profile - text; holds basic description of interests, reason for adoption etc;
 - preferred_species_id -integer; indicates a species that an adopter may be looking or a favorite species

- preferred_breed_id - integer; indicates a breed that an adopter may prefer or is looking for
- Auth
 - Auth_id: unique identifier for authorization information using an integer allowing for auto incrementation
 - Adopter_id: connecting to the adopter using their integer id value in order to keep track of what user the information belongs to using foreign key
 - Username: varchar(50) to apply a limit to length of how long the username text can be
 - Password:varchar(100)to apply a limit to the length of user's password
- Animals
 - id - unique identifier for all animals; integer allows for automatic auto incrementation
 - name - varchar(255)to hold the name of the animal
 - age - integer to hld the age of the animal
 - species_id - integer because it is foreign key to species table
 - breed_id - integer because it is a foreign key to the breeds table
 - sex - varchar(10) - to hold the sex of the animal
 - color - varchar(255) - a string that consist of an array of the color(s) of the animal
 - weight_lbs - floatb to indicate the weight of the animal
 - image_url - text; holds the image address of the animal picture
 - description - text to hold personal/pertinnetn infmoration aboutthet animal
 - available_for_adoption - boolean to indicate if the animal is available for adoption
- Species
 - id - unique identifier for all animals; integer allows for automatic auto incrementation
 - name - varchar(255) holds the name of the species (cat, dog, etc)
- Breeds
 - id - unique identifier for all animals; integer allows for automatic auto incrementation
 - name - varchar(255) holds the name of the breed (yorkie, pitbull, etc)
 - species_id - integer because it is foreign key to species table
- Adoptions
 - id - unique identifier for all adoptions; integer allows for automatic auto incrementation
 - animal_id - integer because it is foreign key to animals table
 - adopter_id - integer because it is feorgin key to adopters tabel
 - adoption_date - datetime - to capture both the date and time of adoption
 - adoption_fee_usd - float to reflect US currency value formats; holds amount of the adoption cost