

# Initial Design Document

## No Paw Left Behind Project

Client: No Paw Left Behind

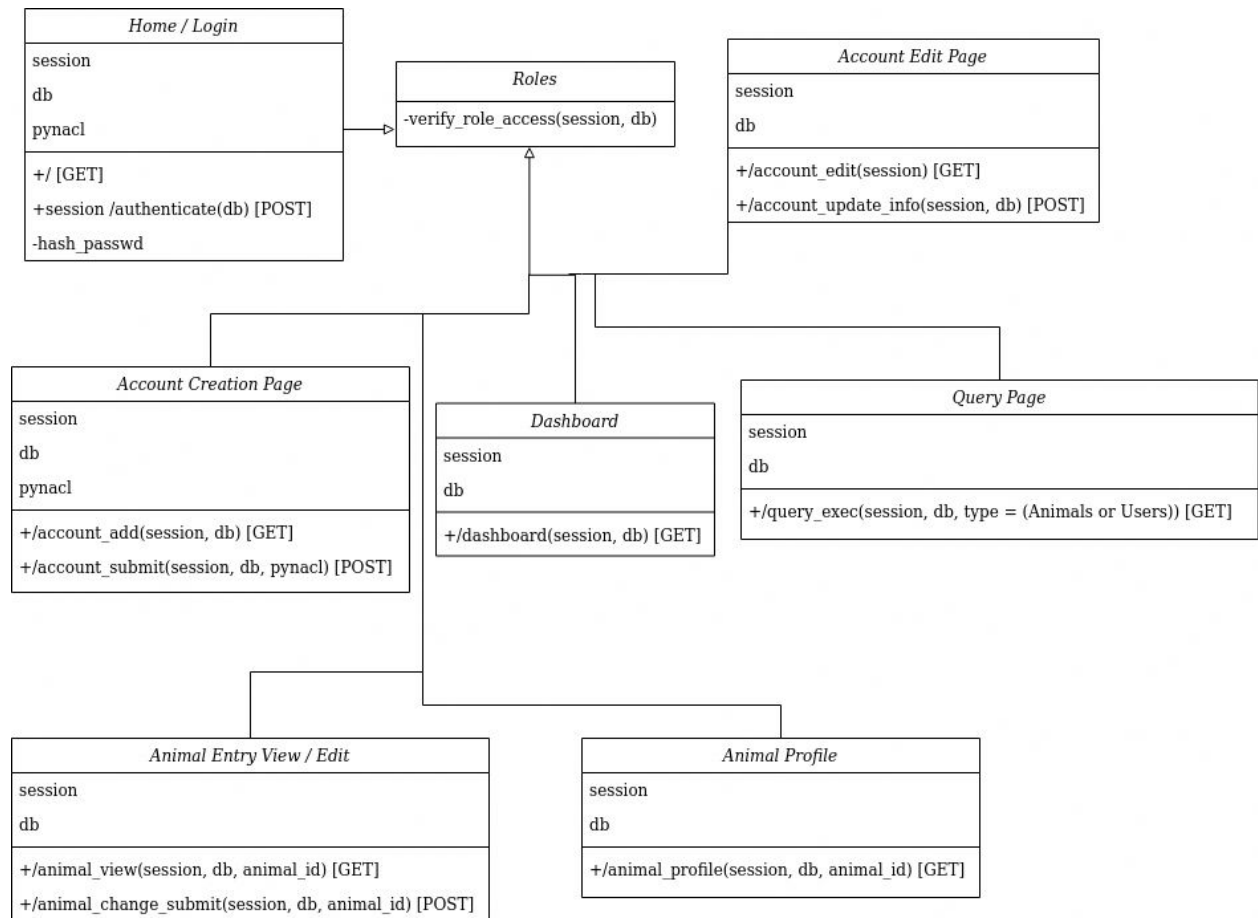
Git Repository: <https://github.com/ValliereMagic/NPLBAM>

Development Company Name: Project Peons

### **Members**

Trevor Gilbert  
Adam Melaney  
Devon Ladd

# Class Diagram

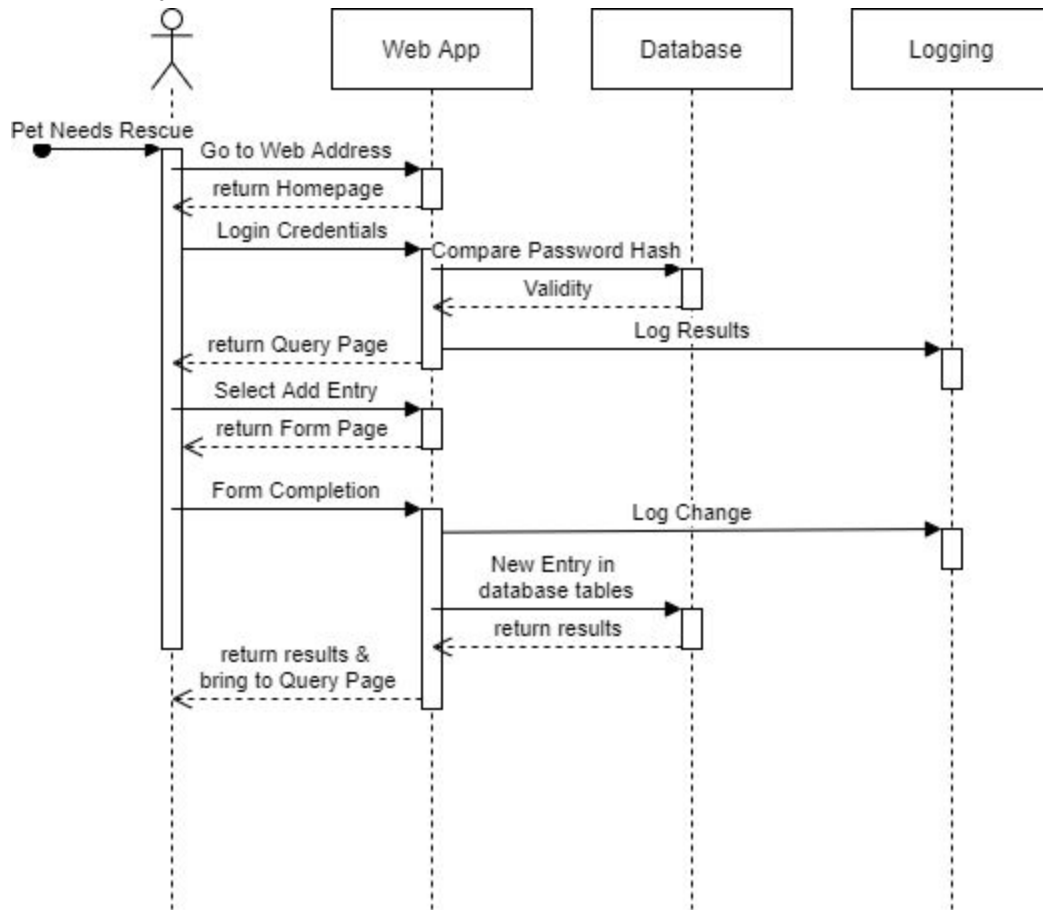


# API List

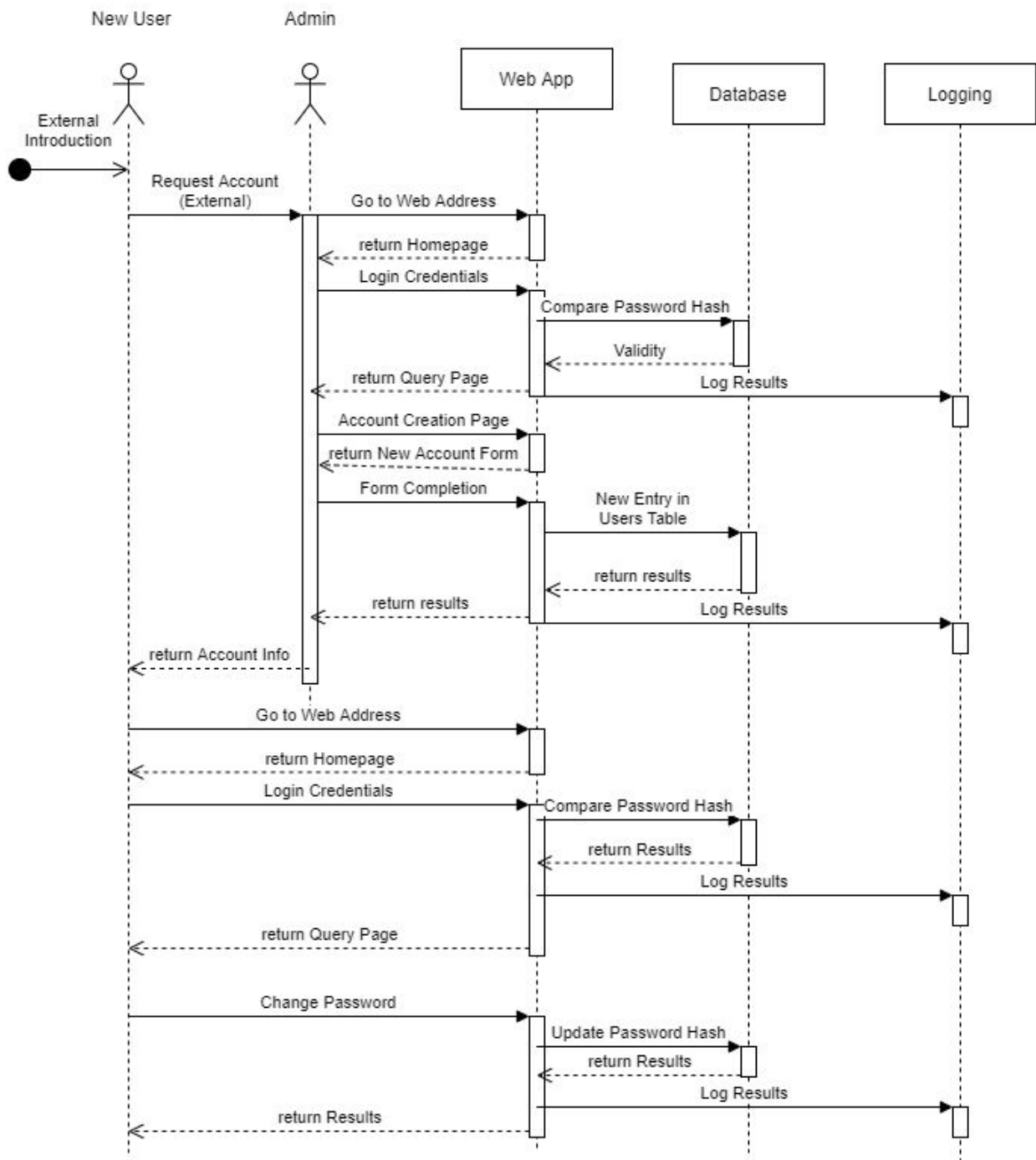
- Flask Web Framework
  - Jinja2 Template Engine
  - Werkzeug WSGI toolkit
- Debian Operating System
- Python Bleach
- SQLAlchemy
- Postgresql
- Nginx
- Docker
- Uvicorn
- PyNaCl
  - Depends on libsodium
- tar
- gzip
- bash
- Python
- pip
- Apt-get
- Dash (Subject to Change)

# Sequence Diagram

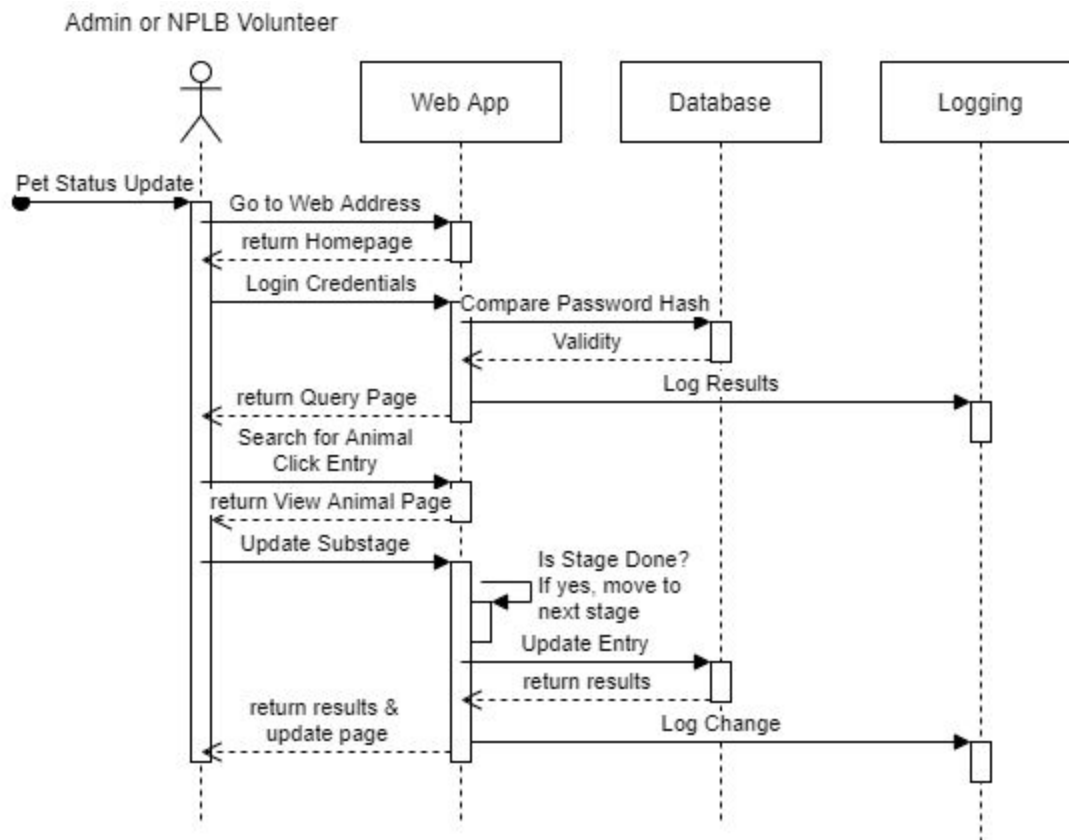
Animal Entry Sequence



## Sequence Diagram 2 - Account Creation



## Sequence Diagram 3 - Update Stage Information



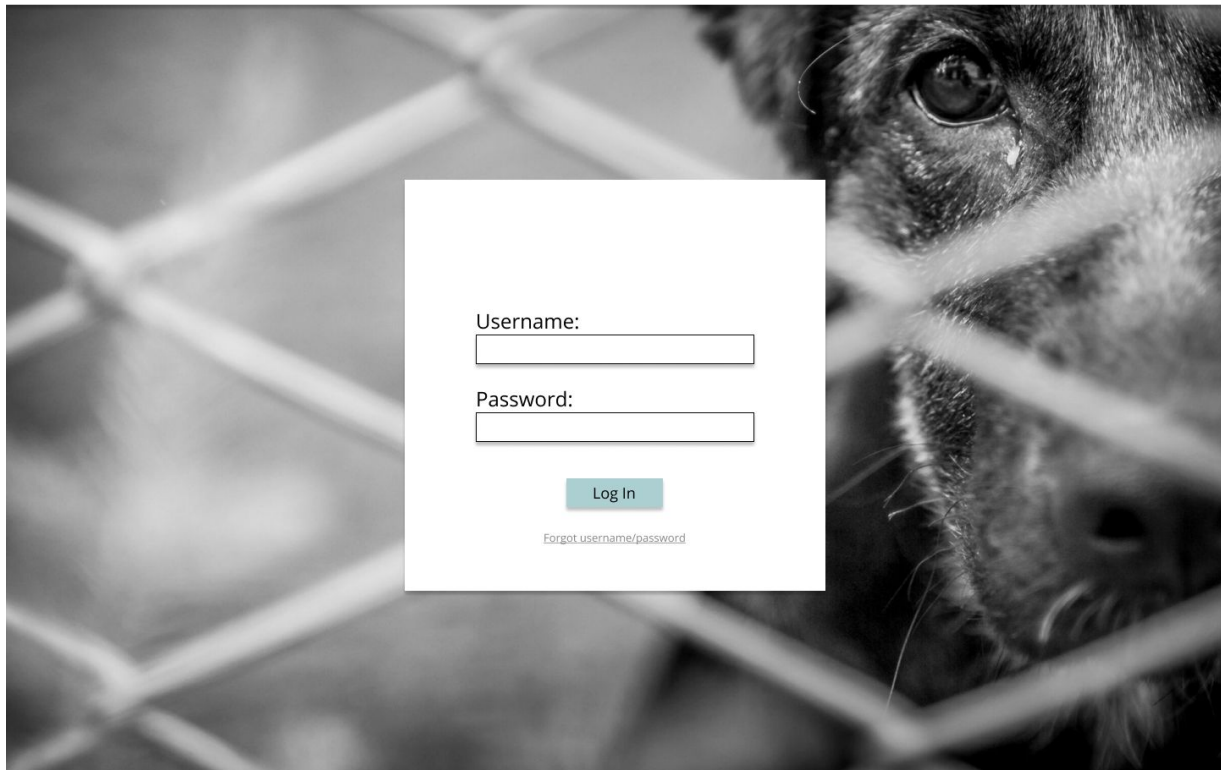
# UI Design

## Home Page



Facebook

Main Site



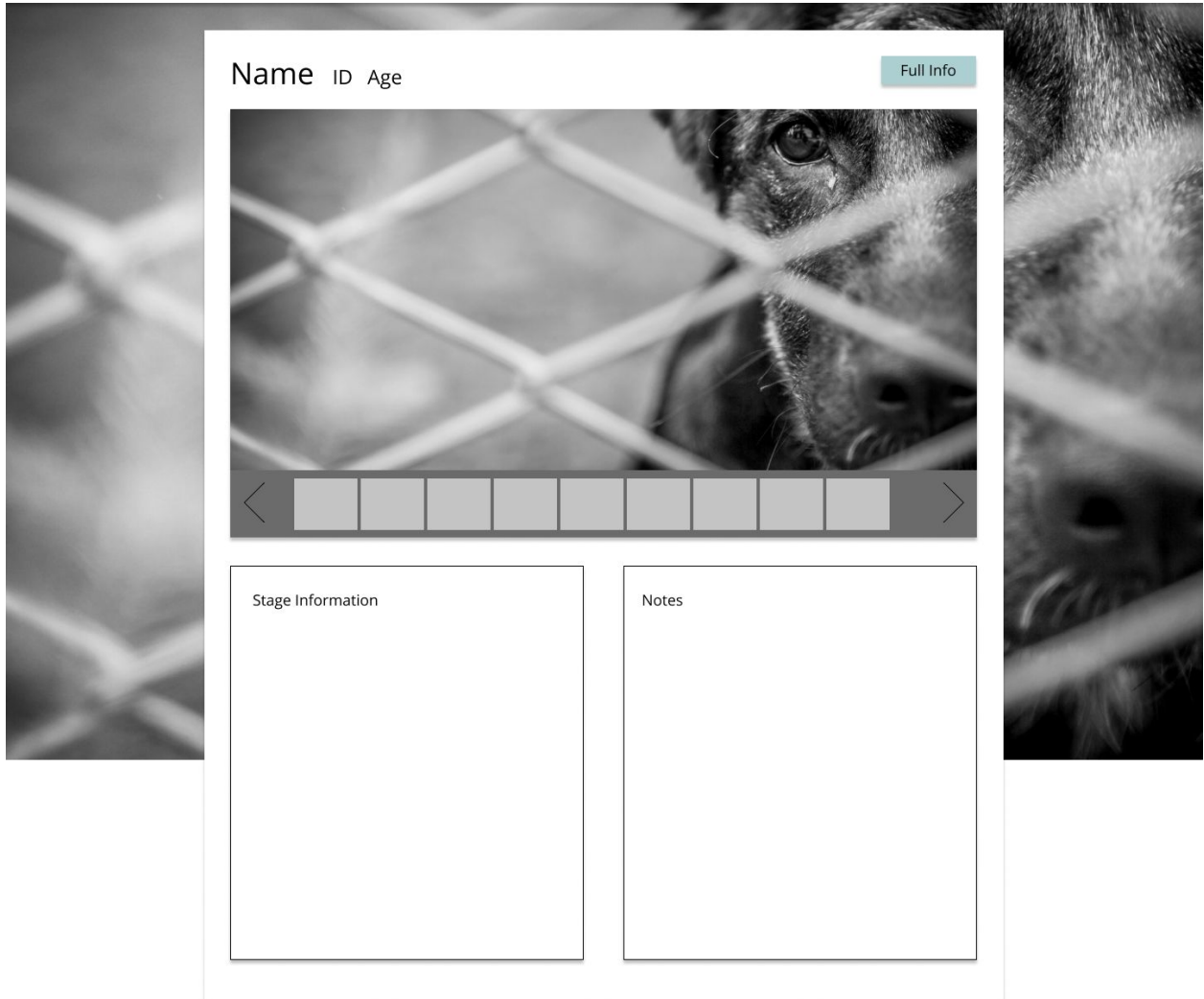
## Animal View Page

 NO PAW LEFT BEHIND

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Log Out





# Animal Query Page

(Account Query Page looks similar..but Accounts)



## NO PAW LEFT BEHIND

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Log Out

[illegible]

# Animal Entry Form

(View Form/Edit Form similar but prepopulated)



NO PAW LEFT BEHIND

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Log Out

## Step 1

Date In

Date In

## Step 2

Status ☐ Stray ☐ Surrender ☐ Unknown

Sex ☐ Male ☐ Female ☐ Unknown

Sterilized ☐ Yes ☐ No ☐ Unknown

In Heat ☐ Yes ☐ No ☐ Unknown

Visible Parasites ☐ Yes ☐ No ☐ Unknown

Microchip ☐ No ☐ Yes ☐ Unknown

Age

Weight

Breed

Colour

Markings

< PREV

1

2

3

4

5

6

7

NEXT >

# Dashboard



NO PAW LEFT BEHIND

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Log Out

## Stage 1

ID #	DAYS IN STAGE
44	22
22	14
10	12
25	10
100	3
Full Results →	

## Stage 2

ID #	DAYS IN STAGE
2	8
4	7
5	5
41	3
40	1
Full Results →	

## Stage 3

ID #	DAYS IN STAGE
9	5
7	5
33	4
12	1

# Database Schema

Animals( animalID: INTEGER AUTOINCREMENT NOT NULL UNIQUE,  
stage INTEGER NOT NULL,  
animalType STRING NOT NULL,  
poundID INTEGER NOT NULL  
rescueID INTEGER  
typeID INTEGER NOT NULL,  
stage0Finish DATE,  
stage1AFinish DATE ,  
stage1BFinish DATE,  
stage1CFinish DATE,  
stage1CNote STRING,  
stage1Finish DATE,  
stage2Finish DATE,  
stage2Note STRING,  
stage3AFinish DATE,  
stage3BFinish DATE,  
stage3CFinish DATE,  
stage3CNote STRING,  
stage3Finish DATE,  
stage4AFinish DATE,  
stage4BFinish DATE,  
stage4CFinish DATE,  
stage4DFinish DATE,  
stage4DNote STRING,  
stage4Finish DATE,  
stage5AFinish DATE,  
stage5BFinish DATE,  
stage5BNote STRING,  
stage5Finish DATE,  
stage6Finish DATE,  
stage6Note STRING,  
stage7Finish DATE,  
stage7Note STRING,  
stage8AFinish DATE,  
stage8BFinish DATE,  
stage8CFinish DATE,  
stage8DFinish DATE,  
stage8EFinish DATE,  
stage8Finish DATE,  
PRIMARY KEY (animalID))

Dog( animalID INTEGER NOT NULL UNIQUE,

typeID INTEGER NOT NULL,  
poundID INTEGER NOT NULL,  
fileNo INTEGER  
inDate DATE  
releaseDate DATE  
status INTEGER  
sex INTEGER  
sterilized INTEGER  
inHeat INTEGER  
visibleParasites INTEGER  
microchip INTEGER,  
age REAL,  
weight INTEGER,  
breed INTEGER,  
colour STRING,  
markings STRING,  
stool ENUM,  
temperamentPaw ENUM,  
temperamentAbdomen ENUM,  
temperamentFace ENUM,  
temperamentNose ENUM,  
temperamentEars ENUM,  
temperamentHead ENUM,  
temperamentNeck ENUM,  
temperamentHindQuarters ENUM,  
cratedBarking INTEGER,  
cratedGreeting ENUM,  
cratedFood ENUM,  
behaviourWithDogs ENUM,  
dispositionOverall ENUM,  
dispositionStranger ENUM,  
dispositionFood ENUM,  
dispositionToy ENUM,  
dispositionLeash ENUM,  
commands ENUM,  
vocal ENUM,  
visualFace STRING,  
visualNose STRING,  
visualTeeth STRING,  
visualEars STRING,  
visualEyes STRING,  
visualNeck STRING,  
visualAbdomen STRING,  
visualTail STRING,

visualLegs STRING,  
visualPaws STRING,  
visualNails STRING,  
visualSkin STRING,  
visualCoat STRING,  
visualOther STRING,  
notesID STRING,  
FOREIGN KEY (animalID) REFERENCES Animals,  
PRIMARY KEY (animalID))

(multiple files per animal, referenced here to the animal)

Files( fileID INTEGER AUTOINCREMENT NOT NULL UNIQUE,  
animalID INTEGER NOT NULL,  
Filename STRING NOT NULL,  
filepath STRING NOT NULL  
PRIMARY KEY (fileID))

Pounds( poundID INTEGER AUTOINCREMENT NOT NULL UNIQUE,  
poundName STRING NOT NULL,  
PRIMARY KEY (poundID))

Rescue( rescueID INTEGER AUTOINCREMENT NOT NULL UNIQUE,  
rescueName STRING NOT NULL,  
PRIMARY KEY (rescueID))

Users( userID INTEGER AUTOINCREMENT NOT NULL UNIQUE,  
password STRING NOT NULL,  
userLVL INTEGER NOT NULL,  
rescueID INTEGER  
poundID INTEGER  
PRIMARY KEY (userID))

(meta information about past databases months for data visualization)

(Allows fast summaries for comparisons)

(Prototype 2)

Meta\_Table( date DATE NOT NULL,  
animalsInSystem INTEGER,  
stageOneAvgLength DECIMAL,  
stageTwoAvgLength DECIMAL,  
stageThreeAvgLength DECIMAL,  
stageFourAvgLength DECIMAL,  
stageFiveAvgLength DECIMAL,  
stageSixAvgLength DECIMAL,  
stageSevenAvgLength DECIMAL,

stageEightAvgLength DECIMAL,  
....(other data for visualization),  
PRIMARY KEY (date))