Road Map

**Python**

Cnn\_dog\_inception.py - constructs CNN and converts it to a tflite model, but needs a different environment to convert model

**PHP**

add\_dog.php - adds dog to database with data from Android app

add\_picture.php - adds picture to folder with unique path sent to it

config\_file.php - stores info for database

create\_table.php - script to be run to create table for database

download\_picture.php - isn’t called, doesn’t work without library GD

read\_from\_db.php - returns row from db based on info received from Android app

remove\_dog.php - removes dog from db (and picture from folder) based on path sent to it from app

**Android Studio**

MainActivity - main screen that lets user go to different parts

QuickClassifyActivity - test activity that lets user see what breed a dog is (from gallery)

* Uses TensorFlow Lite and onboard CNN
* doInference() - performs inference using CNN

FormActivity - gets location, gets picture from gallery, and also uses TensorFlow Lite

* doInference() - performs inference using CNN

ResultActivity - displays results from FormActivity

AddToDatabaseActivity - adds dog (and picture) to database using OkHTTP

* sendBitmap() and addDog() - uses OkHTTP to send info to PHP scripts

MyDogsActivity - reads dogs of user from database using OkHTTP and sending email

* getDogs() - uses OkHTTP to get dogs from PHP script
* display(View v) - parses through JSON response from PHP script and puts it in ListView

OneDogActivity - shows dog from list that was clicked on - can remove if from MyDogsActivity

* setup(), setupFromMyDogs(), and setupFromDisplay() - sets up display of information about dog and which button to display
* deleteDog(View v) - uses OkHTTP to call a PHP script to remove dog based on path

DisplayActivity - uses OkHTTP to get rows from database by breed and missing bool

* getDogs() - uses OkHTTP to get dogs from PHP script
* display(View v) - parses through JSON response from PHP script and puts it in ListView

ImageClassifier, ImageClassifierFloatInception, and GpuDelegateHelper - files for TensorFlow Lite

Dog and SingleGuess - classes used at various points

DogAdapter - list adapter for ListView

XML files go with corresponding activity, except for the listview XML and the manifest.