# CS 340 README Template

*Use this template to complete your README file. When completing the template, keep the headings as they are so that your document has a clear organization. Remove the italicized prompt text after you have completed each section for a polished final document.*

## Austin Area Animal Shelter Project

With more animals being surrendered to shelters there has been an influx of aggregated data regarding these animals. Information regarding animal outcomes, breed, size, and age are now available for use thanks to the Austin Area Shelters. While growing in size it has become more and more important to implement big data infrastructure for the access of these data collections.

## Motivation

Using Mongodb my classmates and I have structured the database to include items such as indexing and implementing authorization within a Python client to produce a usable data set. The information used in this project was supplied by our professor and the goal of the project was to implement a mongoDB backside that would produce favorable results for a large data set.

## *Getting Started*

*To start you should follow the instrucations for setting up mongoDB and have a working version of Python 3.4+. The current version of mongoDB is compatible with this version of python. From there you must download the dataset from this repository and import it with Mongoimport which can be downloaded here.*

*To start the database you must use control utilities to start the database, but before that you should import your data to mongo using mongoimport while passing the appropriate filepath and parameters for the port accessing Mongo.*

*Once the data is transferred to Mongo you can access the mongo shell using mongo, your first steps should be to add authorization schemes if you are planning on sending this application to the internet. However if you are working locally it as necessary. To add authorization you must use the createUser method in the mongo shell and pass the username and password with the role you are planning to distribute to the user.*

## Installation

To access this repository you need to download python, mongodb, and mongoimport.

## Usage

### Code Example

Instantiating the object

Db = AnimalShelter(<username>, <password>)

To create a new entry:

Db.create(data)

To find an entry of breed:

DB.find(<breed name>)

### Tests

### Screenshots

*Provide screenshots that demonstrate your work.*

## Roadmap/Features (Optional)

Provide an open issues list of proposed features (and known issues). If you have ideas for releases in the future, it is a good idea to list them in the README. What makes your project stand out?  
  
Note: This section is optional for the purposes of this assignment. If you choose not to fill out this section, remove it from your final README file.

## Contact

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