# 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.*

## About the Project/Project Title

*This project provides a way to keep track of animals that are in a local Austin Animal Shelter.*

## Motivation

*Need a way to easily track animals and quickly find animals*

## Getting Started

*To start with, this project requires the latest version MongoDB, Python3, and pymongo library to be installed.*

*After installing the required items, a database and collection will need to be created to hold animal data, and a user will need to be created in MongoDB for the module to function.*

*The database, username and password can all be included in the instantiation of the object. The database and collection are not specific to this module. I used the database: AAC, a collection: animals and user: aacuser, but these don’t have to be used.*

*To code the read and create methods of the module, I used the documentation from the materials supplied in the module and experience with Python. The knowledge I had allowed me to complete the milestone. The only issue I encountered was after running the Jupyter notebook, if any error messages were encountered to run it again, I would have to exit out of the notebook and then re-open it.*

## Installation

*As stated above, the following are required for the module to work correctly:*

*MongoDB*

*Python3*

*PyMongo*

## Usage

*Once the requirements have been installed, start out by importing the animalShelter.py file and then instantiate the object.*

## from animalShelter import AnimalShelter

## # Instantiate AnimalShelter

## shelter = AnimalShelter("localhost", 46319, "AAC", "animals", "aacuser", "kxMi8CPhAJQj")

## # Define animal data to be insert

## data = {

## "1": 10005,

## "age\_upon\_outcome" : "11 years",

## "animal\_id" : "A10005",

## "animal\_type" : "Dog",

## "breed" : "Beagle",

## "color" : "Black/White/Tan",

## "date\_of\_birth" : "2012-04-05",

## "datetime" : “2023-01-22 02:00:00”,

## "monthyear" : “2023-01-22T02:00:00”,

## "name" : "Max",

## "outcome\_subtype" : "",

## "outcome\_type" : "Purchase",

## "sex\_upon\_outcome" : "Neutered Male",

## "location\_lat" : 35.159870,

## "location\_long" : -84.875504,

## "age\_upon\_outcome\_in\_weeks" : 5

## }

## # Define animal data to search

## animal = {"animal\_id": "A10005"}

## # Insert data into database

## insertResult = shelter.create(data)

## print("Insert result: ", insertResult)

## # Read data from database

## readResult = shelter.read(animal)

## print("Read result:", readResult)

## Contact

Your name: Eric Wallace