# CS 340 README Template

## About the Project/Project Title

This project helps us work with animal shelter data using Python. It lets us add new animal records and look up animals in a database. The data comes from the Austin Animal Center, and it’s saved in a special kind of database called MongoDB.

I wrote a Python file that helps other programs talk to the database. Later, I will use this with a website or dashboard to show the animal data.

## Motivation

This helped me learn how to:

* Use Python and MongoDB
* Add and read animal records
* Make code that can be reused in bigger projects

This is the first step in building a full website to show and manage shelter data.

## Getting Started

Start the Program

Add a New Animal

Look Up an Animal

## Installation

|  |  |
| --- | --- |
| MongoDB | Stores the animal data |

|  |  |
| --- | --- |
| PyMongo | Lets Python talk to MongoDB |

|  |  |
| --- | --- |
| Jupyter Notebook | To test the code |

|  |  |
| --- | --- |
| Python 3 | Programming language used to write the code |

## Usage

*Use this space to show useful examples of how your project works and how it can be used. Be sure to include examples of your code, tests, and screenshots.*

### Code Example

def create(self, data):

if data is not None and isinstance(data, dict):

result = self.collection.insert\_one(data)

return True if result.acknowledged else False

else:

raise Exception("Invalid data. Must be a non-empty dictionary.")

### Tests

Add a new animal

print(shelter.create({"name": "Buddy", "animal\_type": "Dog"}))

Look up the animal you just added

print(shelter.read({"name": "Buddy"}))

## Contact

Your name: Reginald True