# 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:

## Python CRUD Mongodb application that implements CRUD operations for an Animal collection in MongoDB. This project is about implements the CRUD operations to create useful ways to create, read, update, and delete in Python while using Mongo.

## Motivation:

To help end users run Mongo and understand python scripts. Python allows for securing MongoDB user authentication and connection to a MongoDB client request through the Python dictionaries.

## Getting Started:

I imported the Austin Animal Center Result data set and created an Index, which creates a new username and password with python code in order to login to Mongo and gain access to the database.

*Text

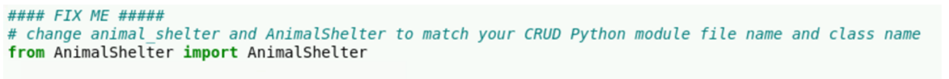
Description automatically generated*

**Text

Description automatically generated**

## Installation:

The tools I used are Jupyter notebook and command line. The libraries I used are PYMongo and Objectid. The CRUD Python module was named the AnimalShelter.

**

## Usage:

This project is used to request MongoDB by using the CRUD methods data from the MongoDB.

### Code Example:

The code below shows the implemented all CRUD methods in CRUD.

Graphical user interface, text, application

Description automatically generated

The code below shows the implemented C and R methods in CRUD.

### Graphical user interface, text, application Description automatically generated

The code below shows the implemented U and D methods in CRUD.

### Graphical user interface, text, application, email Description automatically generated

### Tests:

### The performed the test in the Jupyter notebook and I created and ran the functions in order to create sample data and read the database.

**An explanation of the purpose of the CRUD Python module:**

The purpose of the CRUD Python module was used to connect the dashboard widgets to the database.

**An explanation of how the module should be used:**

The connect MongoDB with Python by using PyMongo is the native Python driver for MongoDB. CREATE functionality can add new product items to an entire database.READ functionality can check if the created entries are all readable.UPDATE functionality can edit or update existing entries. DELETE functionality can delete product items in an entire database.

### Screenshots:

***Graphical user interface, text, application, email

Description automatically generated***

**A demonstration of the module’s functional operations:**

The code below shows the MongoDB import execution:

Graphical user interface, text

Description automatically generated

Text

Description automatically generated

The code below shows the user Authentication Execution:

## Text Description automatically generated

## Text Description automatically generated

## Contact:

Your name: Amber Foster