# CS 340 README

## About the Module 4 Milestone: Animal Shelter

Gravioso Salvare is a multifunctional program allowing users to create, read, update and delete animals into the AAC shelter database.

## Motivation

The motivation of this project was setting up a way for users to access a database for rescue types and their preferred breeds/sex allowing geographical locations and a pie chart for visual aids to help for each individual animal.

## Getting Started

To get a local copy up and running, follow these simple example steps.

Step 1: create a .py file within Jupyter Notebook

Step 2: define your class and add CRUD functions within the .py file

Step 3: test your code with a .ipynb file

Tip: make sure you have previously set up authentication for your user within MongoDB

## Installation

Install Jupyter Notebook and utilize the MongoDB terminals

## 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

How to start with Create and Read:

# Complete this create method to implement the C in CRUD.

def create(self, data):

if data is not None:

self.database.animals.insert\_one(data) # data should be dictionary

return True

else:

raise Exception("Nothing to save, because data parameter is empty")

# Create method to implement the R in CRUD.

def read(self, query):

cursor = self.collection.find(query)

result = list(cursor)

return result

### Tests

How to test your Create and Read:

from PythonModule import AnimalShelter

shelter = AnimalShelter()

new\_animal = {

"animal\_id": '123456',

"name": "Sparky",

"breed": "Siamese",

"age": 12,

"outcome": "Adopted"

}

if shelter.create(new\_animal):

print("Animal created.")

else:

print("Failed to create animal.")

query = {"name": "Sparky"}

animals = shelter.read(query)

print(animals)

### Screenshots

Water Rescue

A screenshot of a computer

Description automatically generated

Mountain and Wilderness

A screenshot of a computer

Description automatically generated

Disaster and Individual Tracking

A screenshot of a computer

Description automatically generated

Reset

A screenshot of a computer

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## Contact

Branden Boehnke