# CS 340 README Template

*.*

## About the Project/Project Title

*Create and Read in Python Is a Create Read Update Delete (CRUD) action in Mongo DB developed via Pymongo driver which contains abstract getters and setter methods. This assignment is an introduction of the basics of database and CRUD.*

## Motivation

*Create and Read in Python is a project that allows interaction with CRUD operations when using a database. CRUD creates store digital records for Austin Animal Clinic, and it’s organized for easier accessibility.*

## Getting Started

*To get started first the user will need to open the Client Server Development (Linux).*

* *The user will open the Open in Terminal and prompt the command /usr/local/database*
* *Import the database by typing mongoimport –port #### --db AAC –collection animals –type cvs –headerline – file aac\_shelter\_outcomes.csv to import the database.*
* *The user will need to open Jupyter Notebook*
  + *Note: To keep organization you can create a new folder for your CRUD*

## Installation

*The user would need to install Jupyter Notebook, Python and Mongo DB to run the projects.*

## Usage

### Code Example

*CRUD.py*

*from pymongo import MongoClient*

*from bson.objectid import ObjectId*

*#Sergio Mateos*

*#CS 360*

*#Southern New Hampshire University*

*class AnimalShelter(object):*

*""" """*

*def \_\_init\_\_(self, username, password):*

*# init to connect to mongodb without authentication*

*#self.client = MongoClient('mongodb://localhost:54011')*

*# init to connect to mongodb with authentication*

*self.client = MongoClient('mongodb://%s:%s@localhost:48315'%("aacuser", "Mateos1")*

*self.database = self.client['AAC']*

*# Create Method*

*def create(self, data):*

*if data is not None:*

*self.database.animals.insert(data) # Data should be a dictionary*

*print("animal added succesfully")*

*return True*

*else:*

*raise Exception("Nothing to save due to parameter being empty")*

*# Read Method*

*def read(self, data):*

*return self.database.animals.find\_one(data) # Returns a single document as a python dictionary*

*Testing.ipynb*

**from** CRUD **import** AnimalShelter

shelter **=** AnimalShelter("aacuser", "austin")

data **=** {

"age\_upon\_outcome":"2 years",

"animal\_type":"Dog",

"breed" : "Domestic Shorthair Mix",

"color" : "Brown",

"date\_of\_birth" : "2019-03-09",

"name" : "Test Dog number 3"

}

**if** shelter**.**create(data):

print("animal added")

**else**:

print("animal add unsuccesful")

print(shelter**.**read(data))

### Tests

*The CRUD.py will process the data from Mongo and the Testing.ipynb will import the result and output the result.*

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

*.*

## Roadmap/Features (Optional)

*Comparing all the READ me from the github provided, I see that what makes the difference is providing a little of text with images that support your ideas.*

## Contact

Your name: Sergio Mateos