# CS 340 README

## About the CRUD Python Module

The AACoutcomes.py Python Module displays examples of ways to create, read, update, and delete data from a Mongo Database. There methods allow for simple database queries and information inserts.

## Motivation

The Motivation for creating the CRUD Python Module was to allow myself and whoever wishes to use it to perform database queries without the use of a terminal. This expedites the process of logging into a mongo terminal each time you want to use it.

## Getting Started

1. To get started, download the csv file containing the AAC outcomes and both python scripts called “AACoutcomes.py” and “CRUDExamples.py”.
2. Afterwards, the csv file needs to be imported to the Mongo Database as a collection called animals.
3. Since the process of logging into MongoDB is automated in the script, all that’s left is to change the data variable to the query you wish to make in the database.

## Installation

“aac\_shelter\_outcomes.csv”

“AACoutcomes.py”

“CRUDExamples.py”

## Usage

### Code Example

The code lets you query specific items in the AAC database. An example of this would be checking whether a query of {"age\_upon\_outcome": "1.7 years", "animal\_type": "Cat"} is found in the database. Another example would be an insert the above query into the database.

The process for these queries is simple. They take a data input (your query) and instantiates an instance of the AACoutcomes class. The results from the query are then posted as either “True” or the displayed data in a dictionary form. The “True” result is posted if you are trying to insert an item into the database. The data in a dictionary form is shown for each item in the read query that satisfies the search results.

### Tests And Screenshot

The screenshot below displays a create and read query for the {"age\_upon\_outcome": "2.5 years", "animal\_type": "Dog"}. Basically, the script takes creates a query then displays the information retrieved from the database.

Create and Read Queries:

Graphical user interface, text, application

Description automatically generated

Update and Delete Queries.

Graphical user interface, text, application

Description automatically generated

Graphical user interface, text, application

Description automatically generated with medium confidence

AACoutcomes.py code:

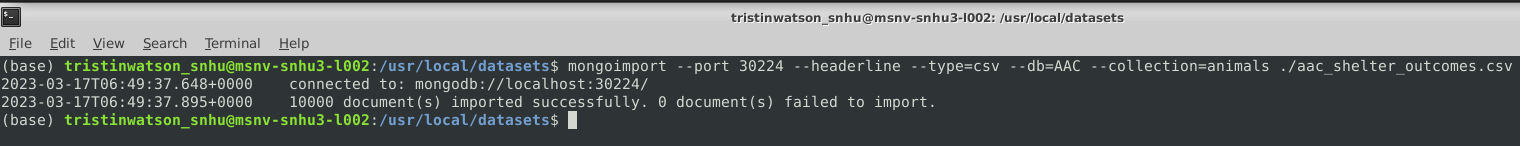
Graphical user interface, text, application, email

Description automatically generated

Graphical user interface, text, application

Description automatically generated

Data Import:



Admin and User Account Creation And Use:

Text

Description automatically generated

Text

Description automatically generated

Text

Description automatically generated

Errors Encountered Still Unfixed (Please help if you know a solution):

Text

Description automatically generated

Graphical user interface, text, application, email

Description automatically generated

Graphical user interface, text, application, email

Description automatically generated

Last week all the python code was working fine. This week when I tried to run the same code, I received this error as well as a database warning in the screenshots above. If you know what problem I am encountering, please help.

## Roadmap/Features

--Current updates in progress are the U AND D of the CRUD method. Hoping to develop an UPDATE and DELETE method soon.--

--Updated the CRUD methods to include all CRUD related items instead of only create and read. Now the Python Module contains an additional update and delete method.

## Contact

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