# CS 340 README Template

## About the Project/Project Title

CRUD Python is a project that is designed to work with MongoDB. It utilizes the main database operations (create, read, update, and delete) to manage a database.

## Motivation

Data is essential to every project and needs to be easy to use and maintainable. CRUD Python allows the user to do necessary operations to maintain data in an easy fashion.

## Getting Started

## Installation

Tools to use include MongoDB CLI and Jupyter Notebook.

## Usage

### Code Example

The database needs to be imported by inserting a csv file using the MongoDB import tool.Graphical user interface, text, application

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Create an administer account in the Mongo shell

Text

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The first step is to initialize the Animal Shelter class and log into MongoDb using a secured user. The username and password of the user is passed it to obtain access to the AAC database.

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Next a new document is created using the data and the create function.

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Data can then be retrieved using the read function with search criteria.

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By using the update function documents in the database can be update. The function takes two parameters, one is a key-value with criteria that queries the database and the other is a key-value set with values to replace the current values.

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**The Dashboard**:

Personal Logo:

A picture containing logo

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Filtering:

Table

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Updated chart based on filter:

Chart

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Pie Chart, Location Map, and Identifier:

Chart

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### Tests

To test a script can be used to initialize, create a record, and read from the database. In the screenshot below a script includes initializing the Animal Shelter class passing in the username and password to access the database. Next the create method is called passing in data that represents a document. The create method adds a new document to the AAC database. Then the read function is called to retrieve the newly added document by passing in search criteria that reflects the new data. The first output is ‘True’ representing that the create function successfully executed and the next output is the document retrieved from the read function.

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Graphical user interface, text, application

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## Contact

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