# README

## About the Project/Project Title

Grazioso Salvare, an international rescue-animal training company, requested a client/server solution that would enable users to interact with shelter databases to assist in correctly placing animals.

## Motivation

The primary motivation for this project is to create an adaptive solution for placing animals from shelters. This solution should allow for quick, efficient database searches by incorporating Create, Read, Update, and Delete (CRUD) operations.

## Getting Started

To run the solution, access will need to be granted to the MongoDB server with authentication credentials. Python and Jupyter Notebook should be installed on your system, which would allow for the implementation of the Python module. Directory paths should be noted since these can lead to an issue.

## Installation

MongoDB – Access to the server with valid credentials

Python – Current Python version

Jupyter Notebook – Current Jupyter Notebook version

ProjectTwoDashboard.ipynb – Download and note the directory location

MongoCRUD.py – Download and note the directory location

\*\*Directory locations should be noted for ease of installation and executable linking\*\*

## Usage

### Database Import

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### User Authentication

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### Code Example

Create, Read, Update, and Delete (CRUD) operations are implemented in MongoCRUD.py under the AnimalShelter class. These operations and log-in credential verifications are just some of the solutions that are utilized in MongoCRUD.py to help users interact with and manipulate data in the AAC database. The screenshots show the implementation of the create, read, update, and delete method within the python module.

### Tests

Several tests were implemented to verify proper connectivity between MongoCRUD.py and the AAC database. These tests were generated in the file MongoCRUD.ipynb and can be seen in the second and third screenshots. The second screenshot shows the successful creation of documents via the create method. The second screenshot shows the read method, and when the method returns a false value. The last screenshot shows the implementation of the update and delete methods in the python module.

### Screenshots

*A computer screen shot of a program code

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Description automatically generatedA computer screen with colorful text

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### Application

The application has adaptive and interactive tables, charts, and geolocation tables. Filtering options based on specifications have been incorporated into the application.

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## Contact

Your name: Bryan Pirrone