# CS 340 README

## About the Project/Project Title

This project involved creating a Python module with working create, read, update and delete functions. This was used to create an interactive dashboard for an animal shelter allowing users to store and access their data.

## Motivation

This project creates an easier more efficient way for our client, Grazioso Salvare, to store and acccess their information.

## Getting Started

First, log in and set up the MongoDB and python environments. Prepare the mongo shell by logging in to an administrator account and uploading the animal shelter’s information from the CSV file. Then create a python file with CRUD functionality (or upload the one created here, AnimalShelter\_CRUD.ipnyb). After that you need to build the dashboard layout or upload my dashboard ipnyb file. Then simply run the file to ensure it works and debug it.

## Installation

In order to run this software, you need a terminal that runs Python. I used JuPyter Notebook, but there are many free options (PyCharm is a common option!) You will also need a Linux terminal (although, there are options for virtual terminals if you’re not working on a Linux-based computer.) Personally, I prefer Ubuntu, but to each their own- any Linux terminal should work. You’ll need basic knowledge of python, linux and mongo.

## Usage

### Code Example

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User authentication Execution:A screenshot of a computer

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Testing the CRUD functionality:*A screenshot of a computer

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Running

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## Challenges

My internet is spotty at best so I kept running into timeout errors, which made it difficult to actually test my code or ensure functionality. Also, I ran into some minor confusion with the file paths (I unknowingly had my CRUD file in a downloads folder and my Dashboard file outside of it, so I kept running into “this file does not exist!” errors. I spent a good few hours trying to figure out what was wrong with my code until I finally thought to just check the file path… Overall, apart from minor frustrations, I found this to be quite a fun challenge!

## Contact

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