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CS 340

**Project Two README**

**Animal Shelter Database Application**

This project gives users access to a large database of animals housed at the Austin Animal Center (AAC) to search and filter specific animals upon request. Users can use filters to pinpoint animals associated with Grazioso Salvare and utilize features like geolocation mapping, interactive user interfaces, and data visualization charts for efficient search and rescue operations.

**Purpose**

The primary objective of this application is to refine skills in database management and data manipulation. Python was selected as the programming language due to its compatibility with MongoDB. Python code can be efficiently compiled using Jupyter Notebook.

**Getting Started**

To begin using this application, follow these steps:

Install MongoDB and import the provided CSV file aac\_shelter\_outvome.csv.

Create both simple and complex indices to optimize data parsing.

Implement user authentication by establishing an Admin account and an AAC user account.

Ensure Python is installed and execute the program via Jupyter Notebook.

Enter the dashboard address to connect and initiate the application.

**Installation Requirements**

*Make sure you have the following prerequisites installed:*

Python and Jupyter Notebook for running .py and .ipynb files.  
MongoDB for database access.

  


