***Interactive Dashboard***

## About the Project

*This project was developed for an international rescue-animal training company, Grazioso Salvare, to facilitate the identification of dogs that are good candidates for search-and-rescue training. The software application utilizes MongoDB, the Dash framework, and an existing database from animal shelters near Austin, Texas to identify and categorize dogs in an interactive dashboard. It implements authentication as a security protocol to validate users. The dashboard contains widgets that enhance the visualization and interpretation of data. Additionally, data can be filtered through filtering options including radio items, drop-down menu, and column sorting. The application uses a Python CRUD module in order to perform basic reading and querying operations to retrieve specific documents from the database system. The interface for the interactive dashboard is intuitive and user-friendly.*

## Functionality

## *When Project\_Two.ipynb is executed in Jupyter Notebook ,an interactive dashboard is populated using data from the Austin Animal Center Outcomes Spreadsheet. It consists of:*

* ![Application

  Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAkACQAAD/4RDuRXhpZgAATU0AKgAAAAgABAE7AAIAAAAMAAAISodpAAQAAAABAAAIVpydAAEAAAAYAAAQzuocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFBhdWwgT2xpdmVyAAAFkAMAAgAAABQAABCkkAQAAgAAABQAABC4kpEAAgAAAAMzMQAAkpIAAgAAAAMzMQAA6hwABwAACAwAAAiYAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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items that use compound queries to retrieve and present data from the database. The data table shows an unfiltered view when it is first initialized. Clicking the radio items will filter the data according to the **Rescue Type and Preferred Dog Breeds Table**. Clicking the ‘reset’ radio item will return all widgets to their original unfiltered state.

## A data table that dynamically responds to filtering and sorting options. The data table starts with an unfiltered view of the data. Filtering can be done by searching for keywords or using the sorting arrows.

* A drop-down menu with options to filter the Pie Chart based on the fields ‘outcome\_type’ or ‘breed’.
* A pie chart that responds to updates from the data table and is filtered by the drop-down menu. It displays data for all animals (0-5) on the current page of the data table.
* A geolocation chart that responds to updates from the data table and has markers for the animals listed on the current page (0-5) of the data table. Tooltips occur when the mouse hovers over a marker and displays the animal type and breed. Popups display the animal id, outcome type and sub outcome type when a marker is clicked on.

## Additionally, the client’s logo is positioned at the top of the dashboard and includes a URL anchor tag to their homepage: [www.snhu.edu](http://www.snhu.edu). Underneath is a unique identifier that credits the creator of the dashboard (me).

## Motivation

*Grazioso Salvare is an international rescue-animal training company. The motivation behind the creation and maintenance of the project is to provide Grazioso Salvare with custom software to identify and categorize available dogs from five animal shelters in the region around Austin, Texas that are good candidates for search-and-rescue training.*

*This project also provided me the experience of developing a full stack application that includes a database and client-facing web application dashboard. This project introduced me to the NoSQL database MongoDB, the Python open-source framework Dash, and browser-based graphing library Plotly. Through this project, I was also able to implement reusable code practices by using a Python CRUD module that I created prior to project.*

## Getting Started

***To get a local copy up and running****, follow these simple example steps:*

1. Ensure that you have access to MongoDB and Jupyter Notebook. Instructions and links are provided in the Installation section.
2. Within the Mongo shell, import the Austin Animal Center (AAC) CSV file using the ‘**monogimport’** tool.

Text

Description automatically generated

1. Setup an **administrator** and **user** account in the mongo shell by following the instructions from this [webpage](https://www.mongodb.com/docs/v4.2/tutorial/enable-authentication/). This project uses these credentials: username: ‘aacuser’, password : ‘bloop’
2. Download the zip folder containing the following files/folder:

**CRUD.py**

**Project\_Two.ipynb**

\* **Assets**

\* Within the Assets folder is a Portable Network Graphic file called ‘Logo2’ and is used to display the client’s logo.

Extract the above files/folder and store inside the same folder in Jupyter Notebook.

1. Set the values for username and password within the **Project\_Two.ipynb** using credentials from the user account created in step iii.

Text

Description automatically generated with low confidence

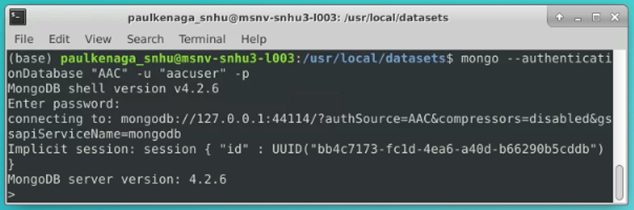
1. Copy the port number that the command line outputs from starting MongoDB to the line of code in the CRUD.py file that initializes self.client:

**mongodb://%s:%s@localhost:<PORT#>/?authSource=AAC&authMechanism=DEFAULT**



1. Start mongoDB from the command line with authentication:

**mongo --authenticationDatabase "AAC" -u "aacuser" -p**

****

1. Within Jupyter Notebook, open **Project\_Two.ipynb** and click the ‘Run’ button. The dashboard should generate with data populated in an interactive table and charts from the ‘*animals*’ collection of the ‘*AAC*’ database.

## Installation

*The following list describes the tools needed to use the software/achieve functionlaity and how to install them:*

1. **MongoDB** is a NoSQL database that offers more flexibility than traditional SQL databases. MongoDB uses collections of documents to store and organize data using JSON-like structures. It provides the necessary drivers and tools to interact with a database using the Python programming language. The structures of databases using MongoDB are flexible and dynamic which make it ideal for interfacing with Python. As the Model element of the Model—View—Controller(MVC) Pattern, it serves as the database that stores and carries application data. To install MongoDB on Ubuntu:

1. Import the public key used by the package management system

2. Create a list file for MongoDB

3. Reload local package database

4. Install the MongoDB packages

For more information or to install on a different OS, please visit [here](https://www.mongodb.com/docs/manual/tutorial/install-mongodb-on-ubuntu/).

1. **PyMongo** is the official MongoDB driver for synchronous Python applications. It contains the tools that are necessary for working with MongoDB using the Python programming language. To install the latest version of PyMongo, enter the following command into the terminal:

$ python -m pip install pymongo

For more information or to install on a different OS, please visit [here](https://www.mongodb.com/docs/drivers/pymongo/).

1. **Dash** is an open-source Python framework used for creating interactive web applications. It enables the development of Javascript web compliant applications without having to program in Javascript and simplifies the development of data-driven applications. Interactive graphs can be created and embedded into a dashboard UI. The Dash framework serves as the view and controller elements in the MVC pattern of the software application because it presents data from MongoDB (the model), listens for event triggers, and executes reactions. Dash core and html components were utilized for the development of the interactive dashboard. To install Dash, enter the following command into the terminal:

$ pip install dash

For more information, please visit [here](https://dash.plotly.com/installation).

1. **Plotly Express** is a Python library that is used to create graphic visualizations. It provides functions to visualize different types of data in customizable figures. To install Plotly Express, enter the following command into the terminal:

$ pip install plotly\_express==0.4.0

For more information, please visit [here](https://pypi.org/project/plotly-express/).

1. **Pandas** is a Python library used for data manipulation and analysis. It is required by Plotly Express because it facilitates the creation of Data Frame objects. To install Pandas, enter the following command into the terminal:

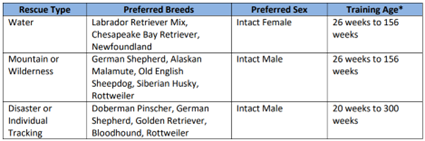
$ pip install pandas

For more information, please visit [here](https://pandas.pydata.org/pandas-docs/stable/getting_started/install.html#installing-from-pypi).

1. **Jupyter** **Notebook** is server-client web application that is used as a computational notebook. Code can be written, tested, and shared within Jupyter Notebook. In this project, Jupyter Notebook was used to develop the python code for CRUD functionality within the CRUD.py file and to create the code for the dashboard in Project\_Two.ipynb. To install Jupyter Notebook using the PIP package manager:
2. Check that pip is installed and updated by entering the following command from the command line: $ python -m pip install --upgrade pip
3. Enter the following command to install Jupyter Notebook: $ pip install notebook
4. To run the notebook, enter the following command: $ jupyter notebook

For more information, please visit [here](https://jupyter.org/install).

## Usage

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The **Rescue Type and Preferred Dog Breeds Table** was used to develop compound queries to search the Mongo database for dogs that fit a certain profile and are good candidates for search-and-rescue training.

The ‘$and’ logical operator was used to join query clauses and return all documents that match the conditions of each clause. The ‘$or’ logical operator was used to join query clauses and return all documents that match the conditions of at least one clause. The following compound queries were used for the interactive option functionality:

*# Water rescue compound query***elif** value == **'water'**:  
df = pd.DataFrame(list(shelter.read({**'$and'**: [  
 {**'$or'**: [{**'breed'**: **'Labrador Retriever Mix'**}, {**'breed'**: **'Chesapeake**

**Bay Retriever'**}, {**'breed'**: **'Newfoundland'**}]},  
 {**'sex\_upon\_outcome'**: **'Intact Female'**},  
 {**'age\_upon\_outcome\_in\_weeks'**: {**'$gte'**: 26}},  
 {**'age\_upon\_outcome\_in\_weeks'**: {**'$lte'**: 156}}  
]})))

*# Mountain or wilderness rescue compound query***elif** value == **'mw'**:  
df = pd.DataFrame(list(shelter.read({**'$and'**: [  
 {**'$or'**: [{**'breed'**: **'German Shepherd'**}, {**'breed'**: **'Alaskan**

**Malamute'**}, {**'breed'**: **'Old English Sheepdog'**}, {**'breed'**: **'Siberian Husky'**}, {**'breed'**: **'Rottweiler'**}]},

{**'sex\_upon\_outcome'**: **'Intact Male'**},

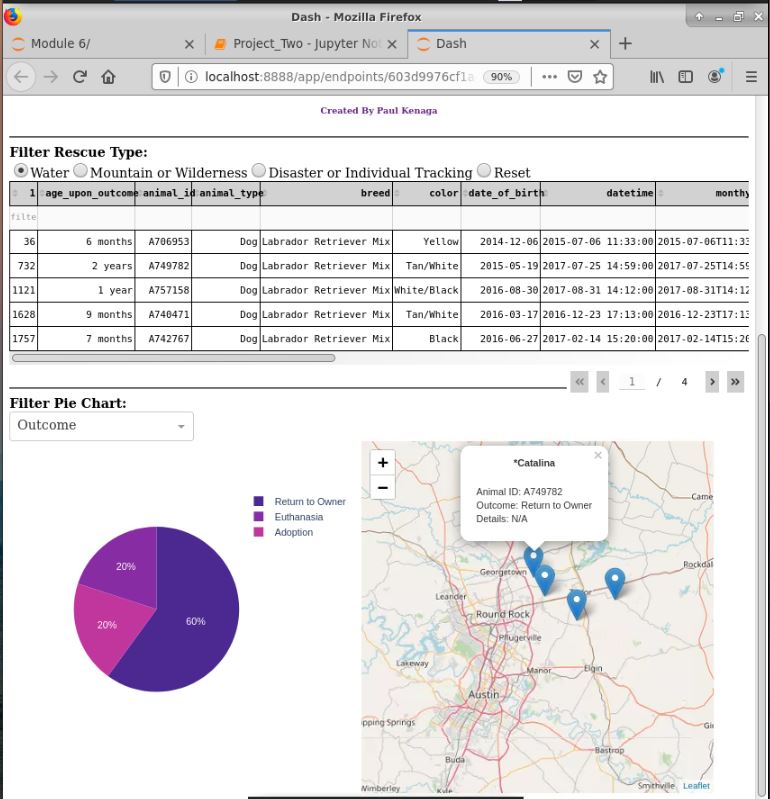
{**'age\_upon\_outcome\_in\_weeks'**: {**'$gte'**: 26}},  
 {**'age\_upon\_outcome\_in\_weeks'**: {**'$lte'**: 156}}  
]})))

*# Disaster or individual tracking rescue compound query***elif** value == **'dit'**:  
df = pd.DataFrame(list(shelter.read({**'$and'**: [  
 {**'$or'**: [{**'breed'**: **'Doberman Pinscher'**}, {**'breed'**: **'German**

**Shepherd'**},{**'breed'**: **'Golden Retriever'**}, {**'breed'**: **'Bloodhound'**},

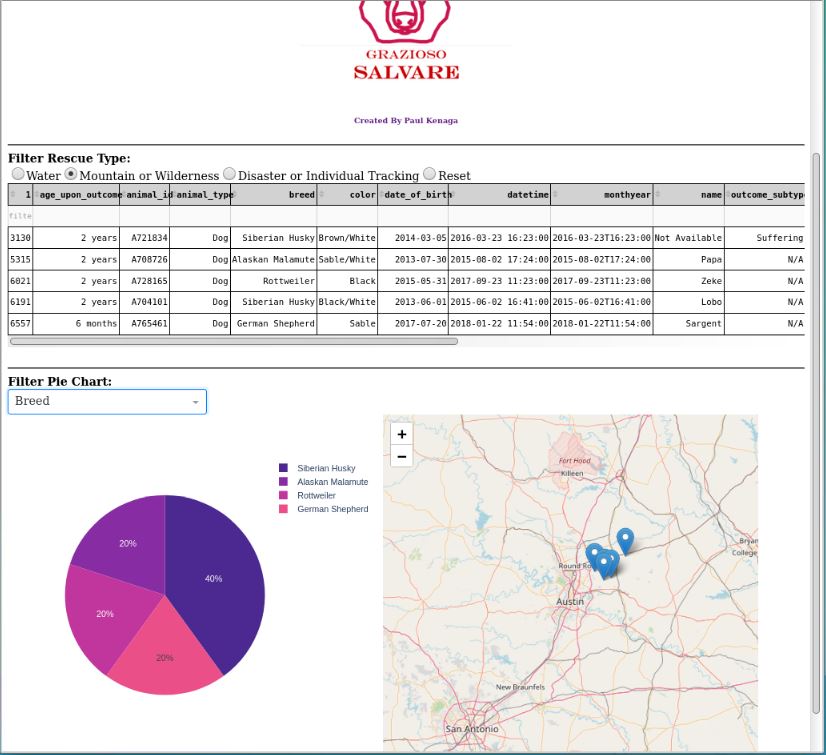
{**'breed'**: **'Rottweiler'**}]},  
 {**'sex\_upon\_outcome'**: **'Intact Male'**},  
 {**'age\_upon\_outcome\_in\_weeks'**: {**'$gte'**: 20}},  
 {**'age\_upon\_outcome\_in\_weeks'**: {**'$lte'**: 300}}  
]})))

***Screenshot****: Clicking the ‘Water’ radio item to display matching Rescue Type candidates*



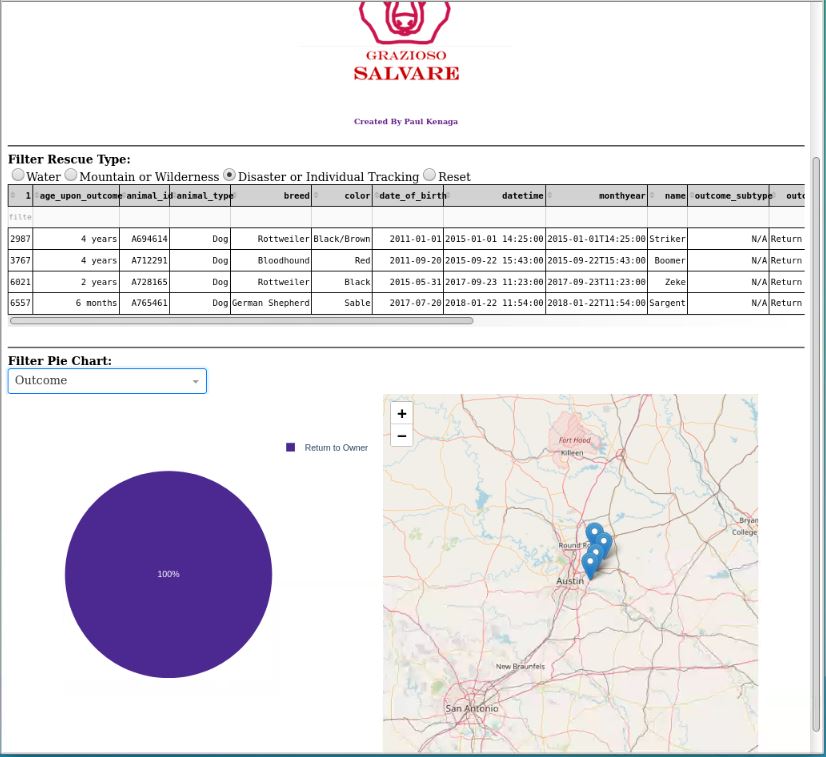
The pie chart depicts data on the outcome of matching dogs by default. It can be toggled to show the breeds of matching dogs. Clicking on a marker displays a popup with information on a specific animal. There are four pages of matching dogs. **A challenge was encountered** when I first created the pie graph because I used data from the entire data table as input which made the legend very long in some cases and distorted the view of percentages. **To overcome this challenge**, I used the derived viewport data as input to create a data frame so that the pie chart only displayed information on animals from the current page.

***Screenshot****: Clicking the ‘Mountain or Wilderness’ radio item to display matching Rescue Type candidates*



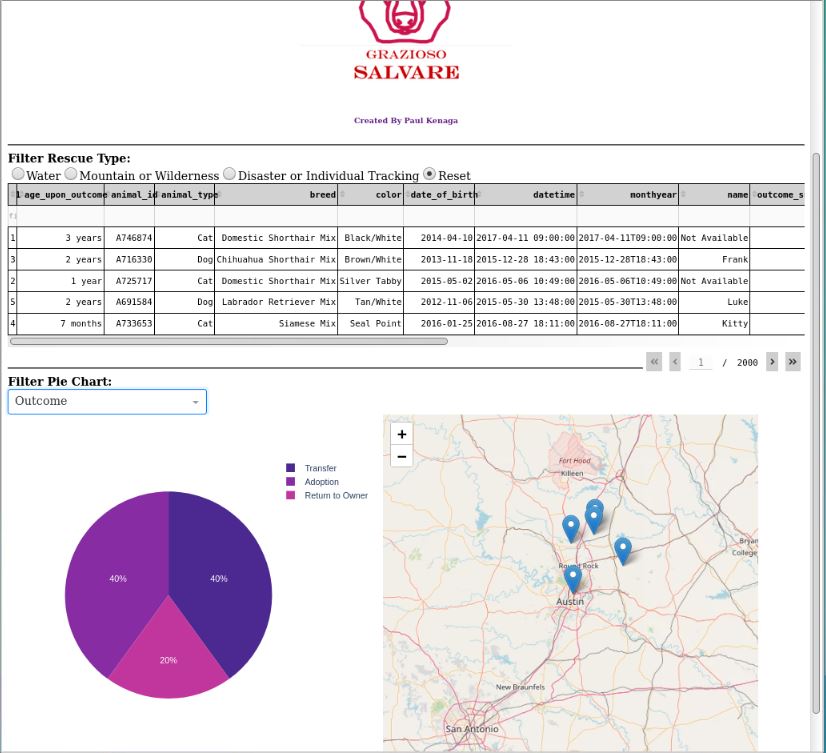
In this screenshot, the ‘Breed’ option was selected to show the makeup of dog breed that match the query for Mountain or Wilderness Rescue Type candidates. There is only one full page of matching dogs.

***Screenshot****: Clicking the ‘Disaster or Individual Tracking’ radio item to display matching Rescue Type candidates*

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In this screenshot, there are only four matching dogs. **A challenge was encountered** when I first wrote the code to populate markers for geolocation chart. Ideally, I wanted to use a for loop to simplify the code and make it easier to read. However, I was unable to implement it without error. I tried hardcoding five markers within the function but **ran into another challenge** when I tested this radio item because there are only four matching dogs. Despite there only being four matches, a fifth marker was always produced. For this reason, I created condition statements to **overcome these challenges** that return the appropriate number of markers depending on how many animals are on the current page. Since the page size is five, there can be anywhere between 0 and 5 markers.

***Screenshot****: Clicking the ‘Reset’ radio item to return all widgets to their original, unfiltered state*

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In this screenshot, the dashboard returns to an unfiltered view of data. Both dogs and cat animal types populate the data table and are reflected in the geolocation chart and pie chart.

## Roadmap/Features

* *Improve the code that creates markers on the Geolocation Chart. I attempted to use a for loop within the update\_map function, but this did not work. Instead, I had to format the return using conditional statements so that the chart will depict between 0-5 markers depending on how many animals are in the data frame. 5 is the maximum marker count because the data table page size is limited to 5 for a simplified interface.*
* *Position the ‘reset’ radio item to the right side of the data table to improve the design.*
* *Check how performance is impacted by when compound queries are changed so that the ‘$in’ operator is used in place of the ‘$and’ operator.* ***A challenge occurred*** *when I first attempted to use the ‘$in’ operator because it did not adequately filter the ‘age\_upon\_outcome\_in\_weeks’ for any of the Rescue Types.* ***I overcame this challenge*** *by using the ‘$and’ operator.*

## Contact

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