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**Project Overview**

The Grazioso Salvare Dashboard helps identify and categorize available dogs from animal shelters for search-and-rescue training. The dashboard allows users to filter data based on specific rescue types, view the filtered data in a table, and visualize the data on a map and in a pie chart.

**Setup Instructions**

1. **Clone the Repository**: Download or clone the project repository to your local machine.
2. **Install Required Python Packages**: Open a terminal and navigate to the project directory. Install the required packages using the following command:

bash

Copy code

pip install pymongo dash pandas dash-leaflet plotly jupyter-dash

1. **Save the Grazioso Salvare Logo**: Save the provided logo image as logo.png in the project directory.
2. **Run the Dashboard**: Run the following command to start the dashboard:

bash

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python app.py

**Usage Instructions**

1. **Load the Dashboard**: Open your web browser and navigate to the URL provided by the Dash server (typically http://127.0.0.1:8050).
2. **Filter Options**:
   * **Water Rescue**: Displays dogs suitable for water rescue.
   * **Mountain or Wilderness Rescue**: Displays dogs suitable for mountain or wilderness rescue.
   * **Disaster Rescue or Individual Tracking**: Displays dogs suitable for disaster rescue or individual tracking.
   * **Reset**: Displays all records without any filter.
3. **Data Table**:
   * The data table displays the animal records and supports sorting, filtering, and pagination.
   * Clicking on a row updates the map to show the location of the selected animal.
4. **Map**:
   * The map displays the location of the selected animal.
   * Tooltips and popups provide additional information about the selected animal.
5. **Pie Chart**:
   * The pie chart visualizes the breed distribution of the displayed dataset.

**Screenshots**

**Initial State**

*A screenshot of a computer

Description automatically generated***Water Rescue Filter**

**A screenshot of a dashboard

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**Mountain Rescue Filter**

**A screenshot of a dashboard

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**Disaster Rescue Filter**

**A screenshot of a computer

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**Dependencies**

* **Python 3.8**: Ensure you have Python 3.8 installed.
* **Python Packages**:
  + pymongo
  + dash
  + pandas
  + dash-leaflet
  + plotly
  + jupyter-dash

**Conclusion**

This README provides the necessary steps to set up, run, and use the Grazioso Salvare Dashboard. The included screenshots demonstrate the functionality of the dashboard in various states. Ensure all dependencies are installed and follow the setup instructions for a successful deployment.