



README

About the Project/Project Title

The project parses through shelter data on behalf of Grazioso Salvare.

Motivation

The motivation of the project is to aid Grazioso Salvare in parsing through shelter data for dogs that would be good search-and-rescue candidates.

Getting Started

To get started with the project download the included zip folder and open the ProjectTwoDashboard in Jupyter Notebooks. Run the project and navigate to the local web domain that Jupyter creates.

Installation

The tools used were Linux, Python, MongoDB, and Jupyter Notebooks. MongoDB was chosen because the PyMongo integration allowed for simple and powerful database queries to filter the data easier. The Dash framework was used as well to create the web application dashboard.

Usage

The project works by displaying a local web-based application using the Dash framework. This application has all the functionality required by the client. It has the client's logo which directs to their site. It has a sortable display of all the data in the database with toggleable columns. The application allows you to sort by specific data parameters using buttons outlined by the client. There is also geographic information on the selected animal and a pie chart displaying the breed information. Lastly, there is developer credit located at the bottom of the page as requested by the client.

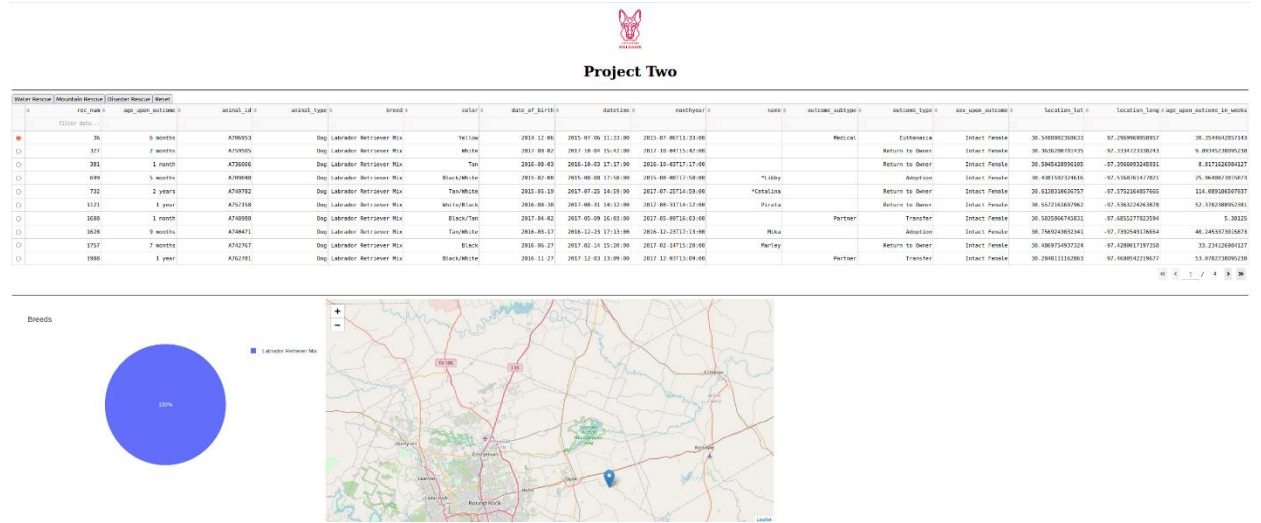
Tests

Describe and show how to run the tests with code examples.

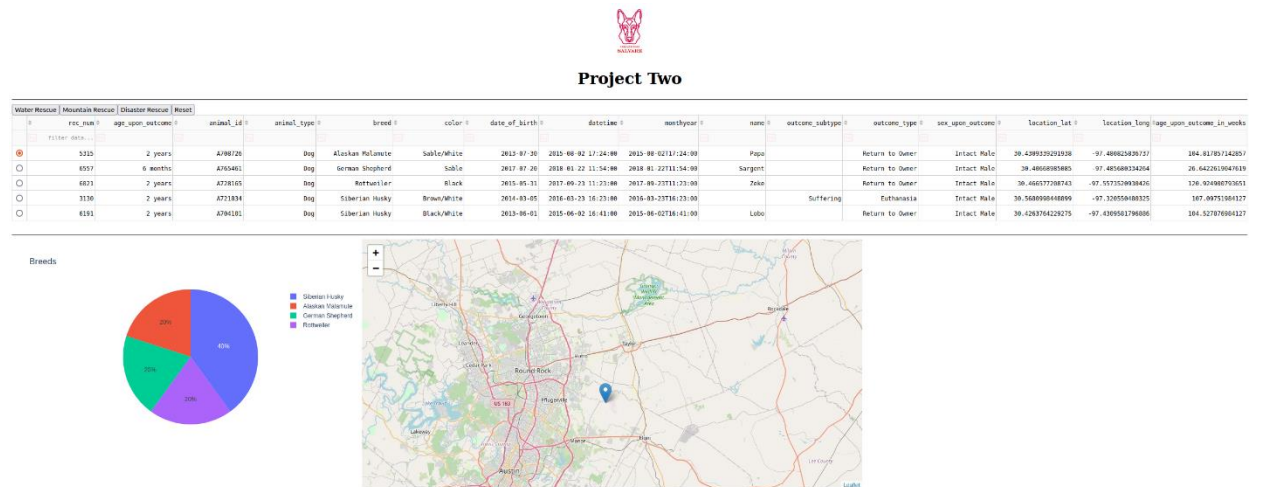
There are four screenshots included to show functionality. Each screenshot shows the result of clicking the filter buttons on the graphics and data frame. The first screenshot shows the Water Rescue candidates. The second screenshot shows the Mountain Rescue candidates. The third screenshot shows the Disaster rescue candidates. Finally, the last screenshot shows the reset data which happens to be the default data when loading the webpage.

Screenshots

Water Rescue



Mountain Rescue







Disaster Rescue

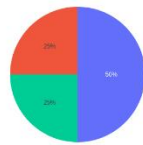
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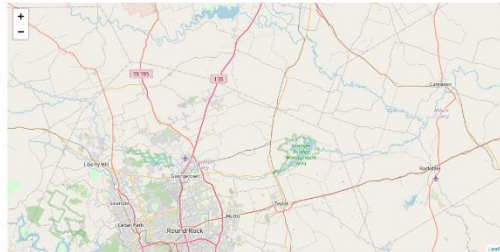
Project Two

Water Rescue		Mountain Rescue		Disaster Rescue		Reset												
		id	rescue_name	age_upon_outcome	animal_id	animal_type	breed	color	date_of_birth	date_rescued	monthyear	name	outcome_subtype	outcome_type	sex_upon_outcome	location_lat	location_long (age_upon_outcome in weeks)	
color details																		
		3767	4 years	4712791	Dog	Blackhound	Red	2011-09-26	2015-09-22 15:43:00	2015-09-27/15:43:00		Roamer		Return to Owner	Intact Male	38.7700881761287	-87.5523950513773	289.060551587382
		4557	6 months	4765451	Dog	German Shepherd	Sable	2017-07-26	2018-01-22 11:54:00	2018-01-27/11:54:00		Sargent		Return to Owner	Intact Male	38.486694650805	-87.48568834264	26.6427616476518
		2987	4 years	4684654	Dog	Retriever	Black/Brown	2011-01-01	2015-01-01 14:25:00	2015-01-01/14:25:00		Silver		Return to Owner	Intact Male	38.3208720811	-87.549296838562	288.000095266318
		6021	2 years	4722055	Dog	Retriever	Black	2013-05-21	2017-09-23 12:22:00	2017-09-23/12:22:00		Zuko		Return to Owner	Intact Male	38.4865720812	-87.5575220938426	129.924998769051

Breeds



Blackhound
German Shepherd
Retriever



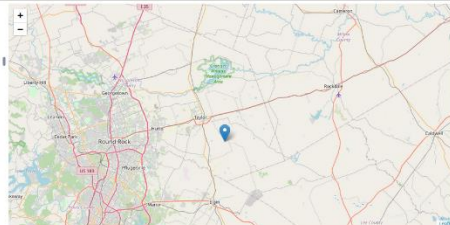
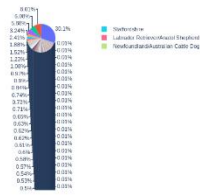
Reset



Project Two

Water Rescue Mountain Rescue Disaster Rescue Reset																	
		rec num	age upon outcome	animal_id	animal_type	breed	color	date of birth	date resc	month/year	name	outcome subtype	outcome_type	sex upon outcome	location lat	location long (age upon outcome in weeks)	
TOTAL COUNT																	
1	3	3 years	A246824	Cat	Domestic Shorthair	Mix	Black/White	2014-04-30	2017-04-11 05:00:00	2017-04-11/05:00:00	Scop	Transfer	Neutered Male	38.546663759455	-87.3486780722188	156.767871428571	
2	1 year	A270517	Domestic Shorthair	Mix	Silver Tabby			2013-06-26	2017-04-05 14:40:00	2017-04-05/14:40:00	Scop	Transfer	Spayed Female	38.2294304662228	-87.4545414444444	82.1021021021021	
3	2 years	A310510	Domestic Shorthair	Mix	Black/White			2015-01-10	2017-02-10 10:45:00	2017-02-10/10:45:00	Frank		Spayed Female	38.742107108811	-87.452107108811	100.000000000000	
4	6 months	A270503	Cat	Siamese	Mix	Spot	Point	2016-01-21	2016-08-27 10:11:00	2016-08-27/10:11:00	Katly	Adoption	Intact Female	38.388883762527	-87.7340378765193	38.8222222222222	
5	7 years	A270503	Dog Labrador Retriever/Dominican Cattle Dog		Black			2010-07-10	2016-11-27 10:00:00	2016-11-27/10:00:00	Maia	Adoption	Spayed Female	38.446423763067	-87.520808108811	98.0000000000000	
6	1 year	A270509	Dog Pit Bull	Mix	Black/White			2012-03-02	2014-03-19 11:10:00	2014-03-19/11:10:00	Shen	Aggressive	Euthanased	Neutered Male	38.295420300441	-87.4221041149436	56.6428571428571
7	2 years	A003194	Dog	Labrador Retriever	Mix	White		2012-01-06	2015-05-18 11:40:00	2015-05-18/11:40:00	Luke		Return to Owner	Spayed Female	38.768888108811	-86.762470412811	133.454545454545
8	3 years	A270514	Dog	Labrador Retriever	Mix	White		2012-04-04	2015-02-12 12:41:00	2015-02-12/12:41:00	Eliasing	Adoption	Spayed Female	38.564709371261	-87.562470412811	137.000000000000	
9	6 months	A004674	Dog	Domestic Shorthair	Mix	Black/White		2015-01-04	2016-01-04 12:00:00	2016-01-04/12:00:00	Phyllis	Adoption	Spayed Female	38.4221041149436	-87.452107108811	100.000000000000	
10	6 years	A004684	Dog	Cardigan Welsh Corgi	Mix	Mix		2010-01-27	2015-01-28 10:30:00	2015-01-28/10:30:00	Louy	Return Back	Euthanased	Spayed Female	38.4737080462131	-87.70797829407	261.000000000000

Breeds



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