



CS 340 README Template

Use this template to complete your README file. When completing the template, keep the headings as they are so that your document has a clear organization. Remove the italicized prompt text after you have completed each section for a polished final document.

About the Project/Project Title

The purpose of this project is intended to explore and record shelter outcomes. In addition, it is a project to create “Create and Read” functionality in Python and execute MongoDB jobs. The dashboard includes an interactive map plotting the location of animals using geolocation data.

Motivation

The project was created to assist in making things easier when querying within Mongo databases. By utilizing Python script, the program is able to run parallel to the Mongo server and using Crud operations for end user.

Getting Started

In order to run the program, the following steps will need to be executed in order to properly process:

1. You will need access to MongoDB and import the CVS file aac_shelter_outcome.csv
2. Proceed to create a simple and complex index in order to facilitate the analysis of the data contained in within the document.
3. The next step is to authenticate the user and create bth an administrator account and allow each user account access to the database.
4. Ensure the aac_crud.py module is available, which provides the necessary CRUD operations for accessing the database.
5. The users will need to access or install python, one all steps are complete the user only need to run the program.
6. Run the Dash app (app.py) to launch the dashboard in your web browser

Installation

In order to use the software, you will need to have the following tools: the latest version of Python to properly run the files with the “.py” extension and MongoDB for database access.

Usage

Use this space to show useful examples of how your project works and how it can be used. Be sure to include examples of your code, tests, and screenshots.

Code Example

```
app.layout = html.Div([
    dcc.Graph(
        figure={
            'data': [
                {

```

Note: This template has been adapted from the following sample templates: [Make a README](#), [Best README Template](#), and [A Beginners Guide to Writing a Kickass README](#).



```
'x': df['age_upon_outcome'],
'y': df['breed'],
'type': 'bar',
'name': 'Breed Distribution'

},
],
'layout': {
    'title': 'Animal Outcomes by Breed'
}
}

])

if __name__ == '__main__':
    app.run_server(debug=True)crud.create(data)
```

This code displays a simple bar chart in a web browser. It pulls data from a pandas DataFrame df, using two columns: age_upon_outcome on the x-axis & breed on the y-axis.

Tests

You can run tests on the CRUD operations by confirming the database connection works by querying a small sample set.

Screenshots:

DISASTER RESCUE:

Note: This template has been adapted from the following sample templates: [Make a README](#), [Best README Template](#), and [A Beginners Guide to Writing a Kickass README](#).

Activities Firefox Web Browser

about:sessionrestore Home Page - Select or crx CS340_Project/ ModuleSixMilestone-Tem Dash

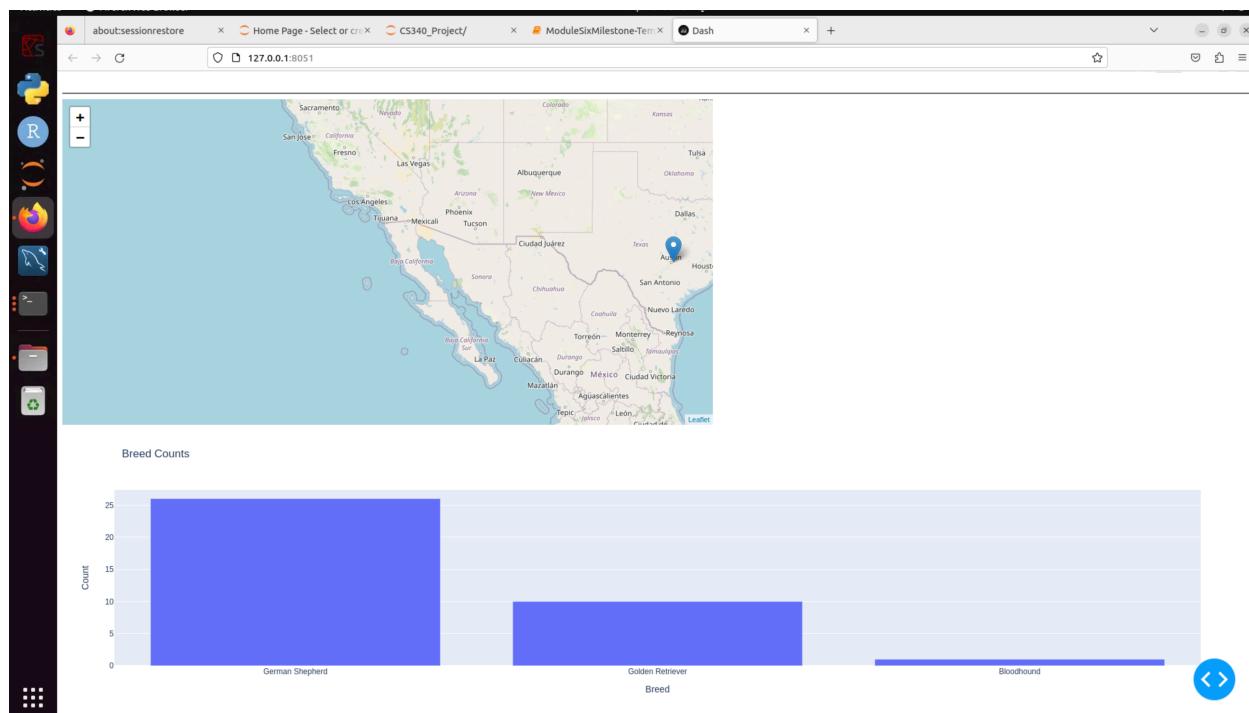
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rec_num	age_upon_outcome	animal_id	animal_type	breed	color	date_of_birth	datetime	monthyear	name	outcome_subtype	outcome_type	sex_upon_outcome	location_lat	location_long	age_upon_outcome_in_weeks
3767	4 years	A712291	Dog	Bloodhound	Red	2011-09-20	2015-09-22 15:43:00	2015-09-22T15:43:00	Boomer	Return to Owner	Intact Male	30.2789983761287	-97.5923916912722	289.093551587302	
364	13 years	A358879	Dog	German Shepherd Brown/Black	Black	2002-08-13	2015-09-15 16:22:00	2015-09-15T16:22:00	Simba	Suffering	Euthanasia	Neutered Male	30.4499994838973	-97.6185491903329	683.097420634921
408	11 months	A681819	Dog	German Shepherd	Black	2013-07-15	2014-07-02 16:40:00	2014-07-02T16:40:00	Ashes	Return to Owner	Spayed Female	30.502516926408	-97.5173430126027	50.3848206349206	
551	4 years	A662100	Dog	German Shepherd Brown/Black	Black	2010-03-01	2015-02-19 12:59:00	2015-02-19T12:59:00	Beaux	Partner	Transfer	Neutered Male	30.3227157550105	-97.6878634304651	259.505853174603
1103	7 years	A738749	Dog	German Shepherd Brown/Black	Black	2009-11-29	2016-11-25 14:09:00	2016-11-25T14:09:00	Camelia	Adoption	Spayed Female	30.6089540148949	-97.316651023179	366.084226190476	
1364	5 months	A760132	Dog	German Shepherd Black/Brown	Black	2017-03-13	2017-09-04 12:11:00	2017-09-04T12:11:00	Zeus	Return to Owner	Neutered Male	30.6360434662318	-97.426353438348	25.072519412698	
1488	2 months	A688264	Dog	German Shepherd Black/Tan	Black/Tan	2014-03-16	2014-05-31 16:31:00	2014-05-31T16:31:00		Partner	Transfer	Intact Female	30.4761912602785	-97.3695016342316	10.9554563492063
1541	2 years	A743624	Dog	German Shepherd Red/White	Red/White	2015-02-13	2017-02-14 00:00:00	2017-02-14T00:00:00	Gavin	Partner	Transfer	Neutered Male	30.2896694492167	-97.465067283616	104.571428571429
1796	6 months	A738212	Dog	German Shepherd Black/Brown	Black/Brown	2016-05-11	2016-11-13 19:00:00	2016-11-13T19:00:00	Karma	Partner	Transfer	Spayed Female	30.44114797265492	-97.7829336943424	26.68452380955238
2189	2 years	A725483	Dog	German Shepherd Black/Brown	Black/Brown	2014-04-29	2016-05-03 17:45:00	2016-05-03T17:45:00	Tilly	Adoption	Spayed Female	30.2973409388938	-97.4209341398927	105.105654761905	

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MOUNTAIN RESCUE:

Firefox Web Browser

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(Water Rescue) (Mountain Rescue) (Disaster Rescue) (Reset)

rec_num	age_upon_outcome	animal_id	animal_type	breed	color	date_of_birth	datetime	monthyear	name	outcome_subtype	outcome_type	sex_upon_outcome	location_lat	location_long
1	3 years	A746874	Cat	Domestic Shorthair Mix	Black/White	2014-04-10	2017-04-11 09:00:00	2017-04-11T09:00:00	SCRP	Transfer	Neutered Male	30.5066578739455	-97.3408781	
9	3 years	A720214	Dog	Labrador Retriever Mix	Red/White	2013-02-04	2016-02-11 12:41:00	2016-02-11T12:41:00	Blessing	Adoption	Spayed Female	30.3870648199411	-97.3684339	
11	1 year	A721199	Dog	Dachshund Wirehair Mix	Tan/White	2015-02-23	2016-02-27 17:49:00	2016-02-27T17:49:00	Belle	Adoption	Spayed Female	30.779072761146	-97.3753321	
12	1 year	A664843	Dog	Pit Bull Mix	Brown/White	2013-06-09	2014-08-18 17:24:00	2014-08-18T24:00	Sherlock	Partner	Transfer	Neutered Male	30.4515549397366	-97.4741010
8	1 year	A736551	Dog	Labrador Retriever/Australian Cattle Dog	Black	2015-10-12	2016-11-27 18:00:00	2016-11-27T18:00:00	*Mia	Adoption	Spayed Female	30.4443212820182	-97.7326989	
13	1 year	A7080488	Cat	Domestic Shorthair Mix	Brown Tabby/White	2014-04-13	2015-04-15 13:34:00	2015-04-15T13:34:00	Nyla	Return to Owner	Spayed Female	30.4101154527976	-97.5624111	
15	3 years	A712638	Dog	Pit Bull Mix	Red/White	2012-09-26	2016-07-18 17:52:00	2016-07-18T17:52:00	Marcus	Partner	Transfer	Neutered Male	30.5798299207017	-97.558848
14	2 years	A742287	Dog	Boxer/Bullmastiff	Brown Brindle/White	2015-01-18	2017-02-11 12:30:00	2017-02-11T12:30:00	*Kawhi	Adoption	Neutered Male	30.4551148649996	-97.3088778	
16	5 years	A723742	Dog	Miniature Schnauzer Mix	Black/White	2011-04-05	2016-04-10 17:27:00	2016-04-10T17:27:00	Gretchen	Adoption	Spayed Female	30.4792884063566	-97.4088853	
17	6 months	A668960	Dog	Pit Bull Mix	Blue/White	2013-06-12	2013-12-27 16:56:00	2013-12-27T16:56:00	*Gigi	Adoption	Spayed Female	30.5943410758588	-97.248993	

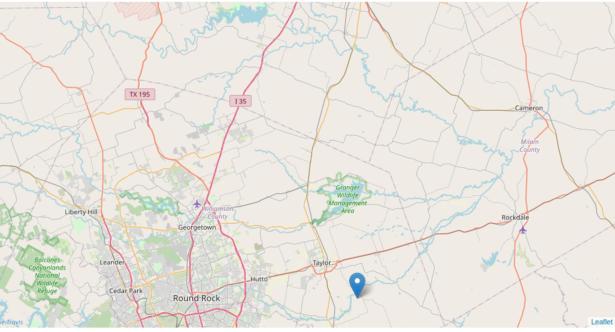
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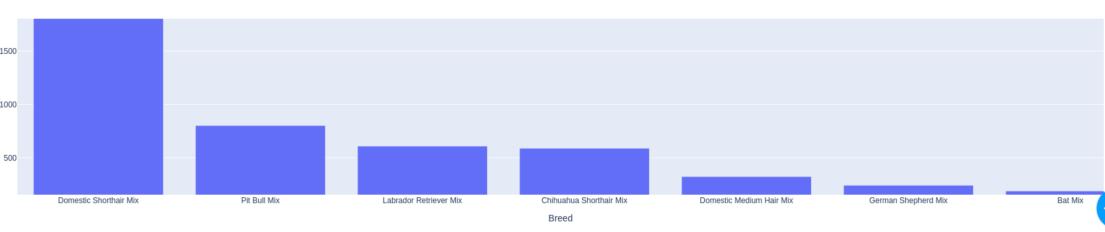
Firefox Web Browser

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Breed Counts



Count

Breed

Domestic Shorthair Mix
Pit Bull Mix
Labrador Retriever Mix
Chihuahua Shorthair Mix
Domestic Medium Hair Mix
German Shepherd Mix
Bat Mix

[Template](#), and [A Beginners Guide to Writing a Kickass README](#).



WATER RESCUE:

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#	age_upon_outcome	animal_id	animal_type	breed	color	date_of_birth	datetime	monthyear	name	outcome_subtype	outcome_type	sex_upon_outcome	location_lat	location_long	age_upon_outcome
9	3 years	A720214	Dog	Labrador Retriever Mix	Red/White	2013-02-04 2016-02-11 12:41:00	2016-02-11T12:41:00	Blessing		Adoption	Spayed Female	30.387064819411	-97.3684339731375	157.504	
5	2 years	A691584	Dog	Labrador Retriever Mix	Tan/White	2012-11-06 2015-05-30 13:48:00	2015-05-30T13:48:00	Luke		Return to Owner	Neutered Male	30.71726695757685	-97.2952833147647	133.653	
22	5 years	A615748	Dog	Labrador Retriever Mix	Black	2009-12-11 2015-10-26 18:13:00	2015-10-26T18:13:00	Blackie	Suffering	Euthanasia	Neutered Male	30.71726695757685	-97.2952833147647	306.537	
36	6 months	A706953	Dog	Labrador Retriever Mix	Yellow	2014-12-06 2015-07-06 11:33:00	2015-07-06T11:33:00		Medical	Euthanasia	Intact Female	30.5480802368633	-97.2969696058957	30.3544	
58	2 years	A724106	Dog	Labrador Retriever Mix	Cream/White	2014-02-26 2016-05-04 08:00:00	2016-05-04T08:00:00	Lanie		Adoption	Spayed Female	30.4995174307439	-97.416768727431		
62	1 year	A669824	Dog	Labrador Retriever Mix	Black	2013-07-27 2014-11-15 19:15:00	2014-11-15T19:15:00	Jackson		Transfer	Neutered Male	30.5194338512674	-97.6579352129145	68.091	
88	7 years	A663438	Dog	Labrador Retriever Mix	Sable	2006-09-18 2014-06-14 16:40:00	2014-06-14T16:40:00	Bonny		Adoption	Spayed Female	30.71339193104	-97.3077552126648	403.813	
113	3 years	A669295	Dog	Labrador Retriever Mix	Brown	2010-12-18 2014-04-04 18:37:00	2014-04-04T18:37:00	Niko		Adoption	Neutered Male	30.7470766266089	-97.265329471923	171.967	
106	5 years	A722207	Dog	Labrador Retriever Mix	Red	2011-03-12 2016-03-12 18:11:00	2016-03-12T18:11:00	Honey		Return to Owner	Spayed Female	30.4797763267616	-97.5579343853593	261.108	
121	5 months	A758619	Dog	Labrador Retriever Mix	Blue	2016-12-07 2017-06-02 18:26:00	2017-06-02T18:26:00	Carrie		Adoption	Spayed Female	30.3143476102105	-97.6878016783755	25.3954	

TX 195 I 35 Cameron

The figure displays a dashboard interface with a map of Central Texas and a bar chart below it.

Map Section:

- The map shows the geographic area of Central Texas, including major cities like Austin, Georgetown, Round Rock, and Cedar Park.
- Key roads labeled include TX 195, TX 35, and FM 1620.
- Geographic features like the Colorado River and various lakes are visible.
- Two green shaded areas represent the "Growth Within Movement Area" and "Rocky Geyserlands Wildlife Management Area".
- Georgetown is marked with a small airplane icon.
- Major county boundaries are shown in grey.

Breed Counts Section:

- A bar chart titled "Breed Counts" is displayed.
- The y-axis is labeled "Count" and ranges from 0 to 600.
- The x-axis is labeled "Breed" and has one visible entry: "Labrador Retriever Mix" with a count of approximately 600.

[Template](#), and [A Beginners Guide to Writing a Kickass README](#).

RESET:

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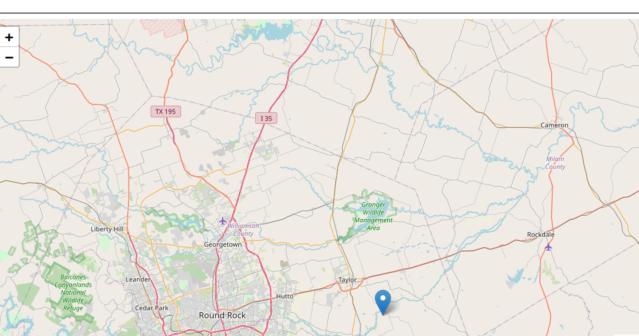
Water Rescue Mountain Rescue Disaster Rescue Reset

#rec_num	#age_upon_outcome	#animal_id	#animal_type	breed	color	#date_of_birth	datetime	monthyear	#name	#outcome_subtype	#outcome_type	#sex_upon_outcome	location_lat	location_lng
1	3 years	A746874	Cat	Domestic Shorthair Mix	Black/White	2014-04-10	2017-04-11 09:00:00	2017-04-11T09:00:00	SCR	Transfer	Neutered Male	30.5066578739455	-97.3408781	
9	3 years	A720214	Dog	Labrador Retriever Mix	Red/White	2013-02-04	2016-02-11 12:41:00	2016-02-11T12:41:00	Blessing	Adoption	Spayed Female	30.3870648199411	-97.368433	
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12	1 year	A664843	Dog	Pit Bull Mix	Brown/White	2013-06-09	2014-08-18 17:24:00	2014-08-18T17:24:00	Sherlock	Partner	Transfer	Neutered Male	30.4515549397366	-97.47410
8	1 year	A736551	Dog	Labrador Retriever/Australian Cattle Dog	Black	2015-10-12	2016-11-27 18:00:00	2016-11-27T18:00:00	*Mia	Adoption	Spayed Female	30.4443212820182	-97.732698	
13	1 year	A708408	Cat	Domestic Shorthair Mix	Brown Tabby/White	2014-04-13	2015-04-15 13:34:00	2015-04-15T13:34:00	Nyla	Return to Owner	Spayed Female	30.4101154527976	-97.56241	
15	3 years	A712638	Dog	Pit Bull Mix	Red/White	2012-09-26	2016-07-18 17:52:00	2016-07-18T17:52:00	Marcus	Partner	Transfer	Neutered Male	30.5798299207017	-97.558848
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16	5 years	A723742	Dog	Miniature Schnauzer Mix	Black/White	2011-04-05	2016-04-10 17:27:00	2016-04-10T17:27:00	Gretchen	Adoption	Spayed Female	30.4792884863566	-97.408853	
17	6 months	A668960	Dog	Pit Bull Mix	Blue/White	2013-06-12	2013-12-27 16:56:00	2013-12-27T16:56:00	*Gigi	Adoption	Spayed Female	30.5943410758588	-97.248993	

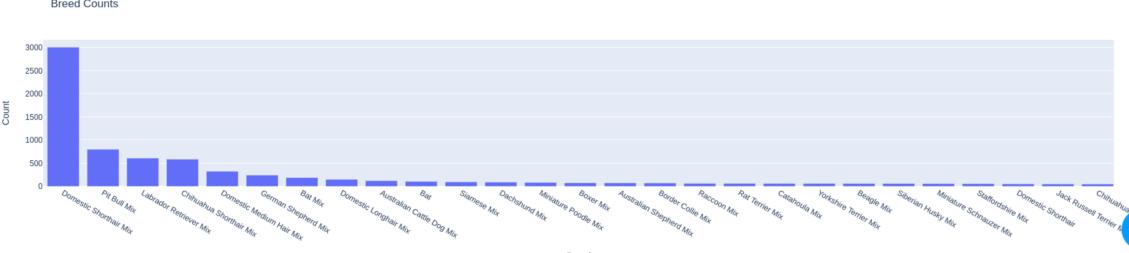
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Breed Counts



Breed	Count
Domestic Shorthair Mix	~2800
Pit Bull Mix	~800
Labrador Retriever Mix	~600
Chihuahua Short hair Mix	~500
Domestic Medium Hair Mix	~300
German Shepherd Mix	~200
Shepherd Mix	~150
Australian Cattle Dog Mix	~100
Domestic Longhair Mix	~100
Bar	~100
Silkie Mix	~100
Dachshund Mix	~100
Miniature Poodle Mix	~100
Boxer Mix	~100
Border Collie Mix	~100
Raccoon Mix	~100
Australian Shepherd Mix	~100
Catahoula Mix	~100
Yorkshire Terrier Mix	~100
Beagle Mix	~100
Shih Tzu Mix	~100
Minature Husky Mix	~100
Staffordshire Mix	~100
Domestic Shorthair	~100
Jack Russell Terrier Mix	~100
Chihuahua	~100

[View README](#)



Roadmap/Features (Optional)

Improving map clustering for better visualization of dense data points.

Purpose

This project aims to combine database management and data visualization into a single web-based dashboard.

It provides a modern interface for interacting with animal shelter data, making it easier to understand trends and patterns in shelter outcomes, and supports informed decision-making for stakeholders.

Contact

Your name: Leslie Jaquez