Jersey PAWS

FLASK, SQLAlchemy & Pandas with Python

Description

Jersey PAWS is a Python application coded with FLASK and SQLAlchemy frameworks. It allows the registration of owners who which to register their puppies.

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Usage

This Python application allows the user to navigate in a Web App with the following features:

* Retrieve a list of registered owners with their registered pets
* Register owners who would like to register their puppies
* After the owner has been registered, s/he can register their puppies

The code is build using classes to manage owners and dogs with their respective information. These are the following features.

Owners

* Register name
* Add address, city, state and zipcode

Puppies

* Register name
* How old each puppy is
* Height
* Color
* Favorite food

Should it be required, the user may upload a batch of data with the information to be appended to the database into the two tables coded: owner and pupppies. Make sure that the batch files are stored in the same directory and saved as:

* owner\_batch.csv
* puppies\_batch.csv

If the user needs to see statistics of the owners and puppies added to the database, the following queries may be explore after running the [queries.py](http://queries.py/) file using your choice of CLI Anaconda Command Prompt, Terminal (Mac OS), Git Bash (Windows) or other CLI that supports Python (.py) and Jupyter Notebooks (.ipnyb).

* Table with list of owners with attributes
* Table with list of puppies with attributes
* Amount of owners and puppies registered
* Amount of columns in owners and puppies tables
* Total puppies registered by owner
* Top favorite foods with totals
* Most popular colors with totals
* Table with the number of puppies within these age groups:
  + Less than 5 years old
  + Between 5 and 10 years old
  + More than 5 years old

Installation

Clone the repository using your Git.

git clone git@github.com:ivanzapatarivera/Python\_Exercise\_2.git

Create [config.py](http://config.py/) with the following variables that run on your MySQL Workbench.

username = 'root'

password = 'password'

port = 3306

server = 'localhost'

hostname = '127.0.0.1'

database = 'database'

auth\_plugin='mysql\_native\_password'

db\_uri = f'mysql://{username}:{password}@{server}/{database}'

Using CLI (conda environment activated from Anaconda is required), run:

On Mac OS:

First time only:

set FLASK\_APP=main.py

set FLASK\_ENV=development

Afterwards:

python main.py

start chrome http://127.0.0.1:5000/

On Windows:

First time only:

export FLASK\_APP=main.py

export FLASK\_ENV=development

Afterwards:

python main.py

start chrome <http://127.0.0.1:5000/>

To load your first batch of data stored in current directory run the following command on CLI (Mach OS and Windows):

python batch.py

Where to Contribute

Contribution requests may be sent to:

Email:  [ivan.zapata-rivera@gmail.com](mailto:ivan.zapata-rivera@gmail.com)

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Repository

GitHub Title:  [Python\_Exercise\_2](https://github.com/ivanzapatarivera/Python_Exercise_2)

<https://github.com/ivanzapatarivera/Python_Exercise_2>

Screenshot

