

Cute or Not, a Project with the PetFinder API

Designed and Developed by Jessica Lester

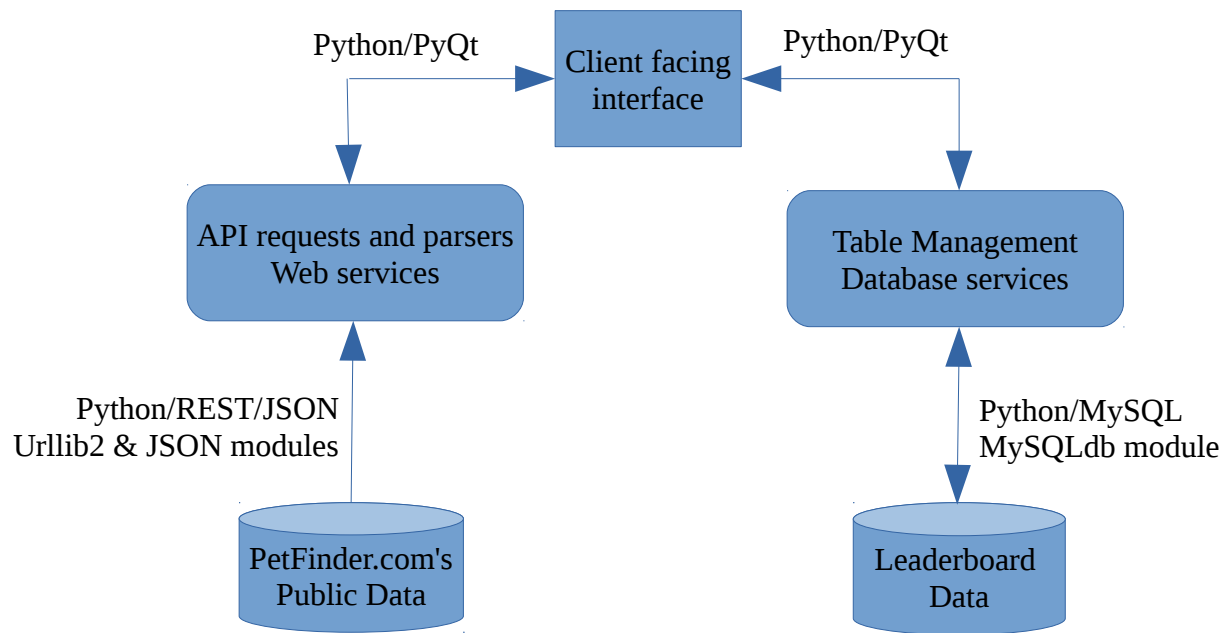
Project Purpose:

The primary purpose of this project is educational; to gain a better handle on RESTful APIs, JSON, PyQt and MySQL interfacing with Python.

The secondary purpose is to pull animal photos from petfinder.com so the animal's cuteness can be rated on a relative scale, through a Python, REST and a PyQt interface. The animal's cute rating will be stored in a MySQL database to be viewed on a PyQt leaderboard.

Cute or Not is designed to be used by the developer and close individuals, this is not developed for large distribution.

High Level Abstraction:



Usage:

PetFinder.com's Public Data:

Provides data via REST to access pet photos

JSON, format=json

KEY, key=Developer's Key

URI, <http://api.petfinder.com/subsystem.method>

Photos available in the pet.get, pet.getRandom, pet.find and shelter.getPets

Using the pet.getRandom for a Pet

Web Service:

Interprets PetFinder's data to format it from JSON to python objects ready for display by the client interface

Leaderboard Data:

Data which is stored about which pets receive cuteness points and makes it available for display in a leaderboard

Database Service:

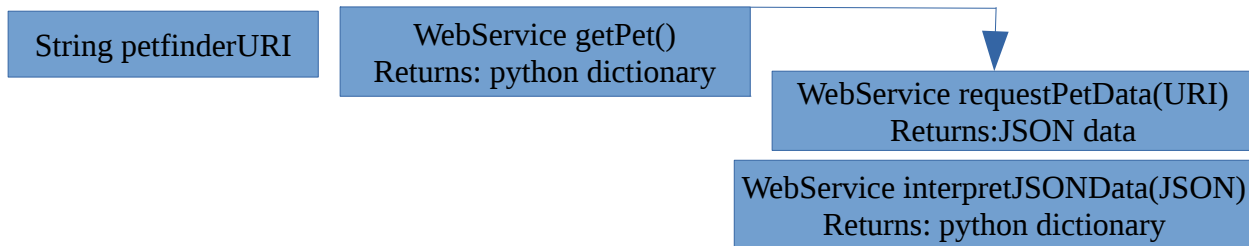
Interprets Python/PyQt data so it can be saved into a MySQL database. Interprets MySQL leaderboard objects into Python/PyQt objects to make it ready for display.

Client facing interface:

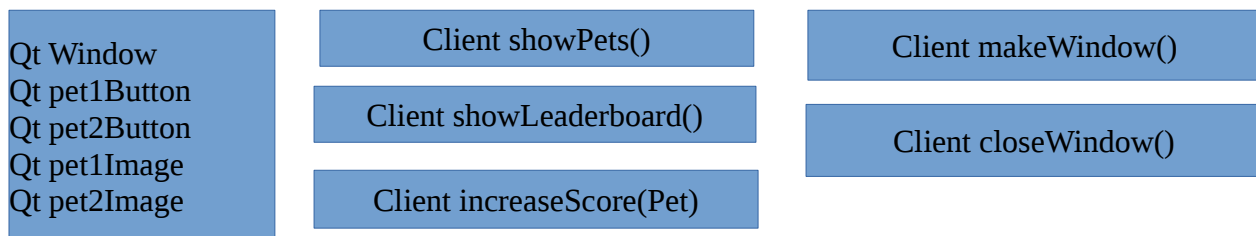
Uses data provided by the web and database services to display a leaderboard and rate animals via a GUI. Possible modules for this : QtGui, QtSql, QtXml (if xml is used instead of JSON)

Low Level:

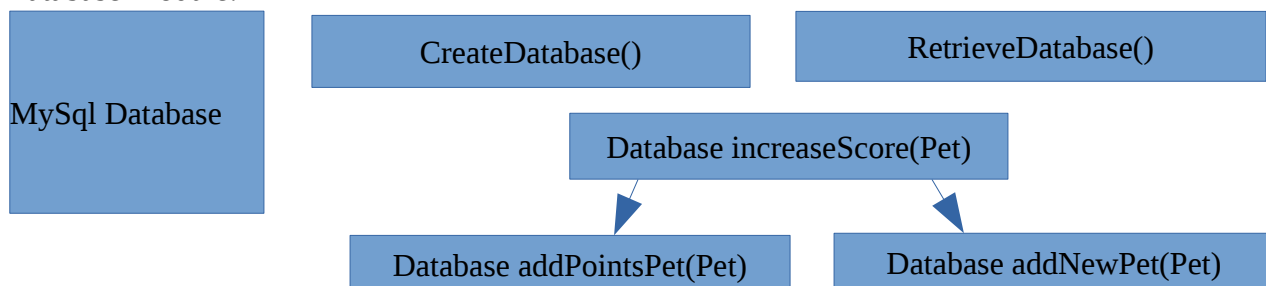
Web Service Module:



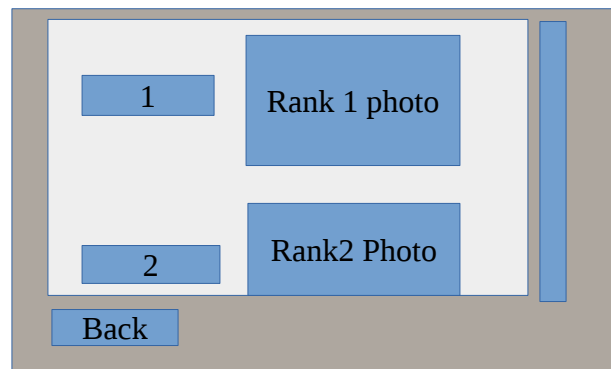
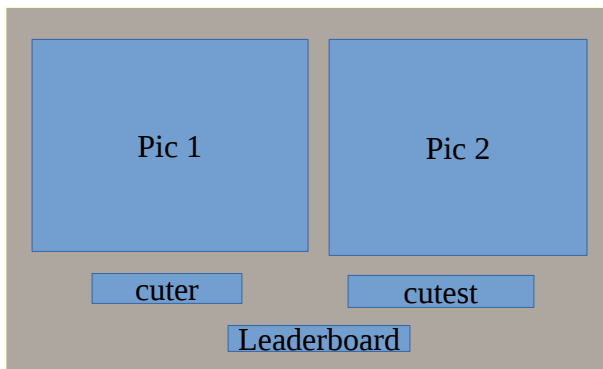
Client Module:



Database Module:



Mockup GUIs:



Possible additions:

- Select which type of pet, breed of pet or age of pet to compare.
- Create different leaderboards for each breed
- Add a "Super Cute" button to give that pet two points instead of one
- Help/ Info Button
- Add css styling
- Switch Leaderboard to a Winner's Board
- create statistics database for winners
- click on pet picture in leaderboard to go to petfinder.com for that animal
- Save images for leaderboard to tmp dir for the first time they are viewed and delete them on exit