Overview

Implement a rest API to provide a "pets" resource for a mobile or web "Pet Service" app. The app will have info about species of pet, its name, age, sex, description, pet owner's email address, and an image URL to be used by consumers of this app.

Technologies

- The **preferred** technologies for this project are Python (^3.7.2) using Connexion, Flask or Flask-restful Framework.
- Other acceptable technologies are NodeJS (^12) and Java (^12)
- If you are submitting something that is not Python, Node, or Java you must submit the assignment as a Docker Container (^2) so that we can grade it as is without needing to spin up an environment we do not use regularly.

If you're using Python please use pyenv for your virtual environment.
https://github.com/pyenv/pyenv/blob/master/README.md.

Requirements

- As an engineer, I can call an endpoint for creating a set of pets
    - Create should accept a list of JSON dictionaries containing the following fields:
        - name,
        - type (values cat, dog, bird or fish),
        - age,
        - sex (values m or f),
        - description,
        - owner_email,
        - image_url
    - Create should return a list of ids for the pets created
- As an engineer, I can call an endpoint for updating a set of pets
    - Update should accept a list of JSON dictionaries containing the following fields:
        - id,
        - name,

- type (values cat, dog, bird or fish),
- age,
- sex (values m or f),
- description,
- owner_email,
- image_url
- Id is a required field other fields not included will be unchanged by the update.
- As an engineer, I can delete a set of pets
  - Delete should allow for an additional path element to delete a pet by id
  - Delete should include a query parameter named "all" to be used to delete all pets
- As an engineer, I can call a search endpoint that will return a list of pets based on a set of search criteria (age, sex, etc) to populate my app/webpage
  - Search criteria should be specified via JSON dictionary using any of the fields provided in the other endpoints or via url parameters.
  - When no criteria is in the search dictionary then all pets should be returned

Feel free to go beyond these requirements or include any unit tests with the submission

Delivery

We would like the code delivered via a GitHub repo. Please include any instructions in a README file so we can successfully build and run your service. The README should include your endpoint url for each of the requirements listed above and the corresponding HTTP verbs that were used.