## Project Challenge: Create a One-to-Many Relationship

In this challenge, you will be tasked with creating a one-to-many relationship between the user and pet models.

## WE'LL COVER THE FOLLOWING ^

- Problem statement
- Your implementation

## Problem statement #

In this challenge, we will be creating a **one-to-many** relationship between the Pet and the User models. This relationship should indicate that a *user* can post **multiple** *pets* on the website. However, a *pet* is posted by only one *user*.

## Your implementation #

Implement the features described above in the application provided below.

<u>M</u> Disclaimer: Please do not remove the users and pets list from the application yet, as it may break the existing features of the application.

```
"""Flask Application for Paws Rescue Center."""
from flask import Flask, render_template, abort
from forms import SignUpForm, LoginForm
from flask import session, redirect, url_for
from flask_sqlalchemy import SQLAlchemy

app = Flask(__name__)
app.config['SECRET_KEY'] = 'dfewfew123213rwdsgert34tgfd1234trgf'
app.config['SQLALCHEMY_DATABASE_URI'] = 'sqlite:///paws.db'
db = SQLAlchemy(app)

"""Model for Pets."""
class Pet(db.Model):
    id = db.Column(db.Integer, primary_key=True)
    name = db.Column(db.String, unique=True)
    age = db.Column(db.String)
```

```
pio = ap.column(ap.String)
"""Model for Users."""
class User(db.Model):
    id = db.Column(db.Integer, primary_key=True)
    full_name = db.Column(db.String)
    email = db.Column(db.String, unique=True)
    password = db.Column(db.String)
db.create_all()
"""Information regarding the Pets in the System."""
pets = [
            {"id": 1, "name": "Nelly", "age": "5 weeks", "bio": "I am a tiny kitten rescued by
            {"id": 2, "name": "Yuki", "age": "8 months", "bio": "I am a handsome gentle-cat.
            {"id": 3, "name": "Basker", "age": "1 year", "bio": "I love barking. But, I love
            {"id": 4, "name": "Mr. Furrkins", "age": "5 years", "bio": "Probably napping."},
"""Information regarding the Users in the System."""
users = [
            {"id": 1, "full_name": "Pet Rescue Team", "email": "team@pawsrescue.co", "passwor
@app.route("/")
def homepage():
    """View function for Home Page."""
    return render_template("home.html", pets = pets)
@app.route("/about")
def about():
    """View function for About Page."""
    return render_template("about.html")
@app.route("/details/<int:pet_id>")
def pet_details(pet_id):
    """View function for Showing Details of Each Pet."""
    pet = next((pet for pet in pets if pet["id"] == pet_id), None)
    if pet is None:
        abort(404, description="No Pet was Found with the given ID")
    return render_template("details.html", pet = pet)
@app.route("/signup", methods=["POST", "GET"])
def signup():
    """View function for Showing Details of Each Pet."""
    form = SignUpForm()
    if form.validate on submit():
        new_user = {"id": len(users)+1, "full_name": form.full_name.data, "email": form.email
        users.append(new_user)
        return render_template("signup.html", message = "Successfully signed up")
    return render_template("signup.html", form = form)
@app.route("/login", methods=["POST", "GET"])
def login():
    form = LoginForm()
    if form.validate_on_submit():
        user = next((user for user in users if user["email"] == form.email.data and user["pas
        if user is None:
```

In the next lesson, we'll look at the solution to this challenge.