

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.

⚠ 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)
    bio = db.Column(db.String)
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        bio = db.Column(db.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 b"},
    {"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", "password": "12345678"}
]

@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.data, "password": form.password.data}
        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["password"] == form.password.data), None)
        if user is None:

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        return render_template("login.html", form = form, message = "Wrong Credentials. P
    else:
        session['user'] = user

        return render_template("login.html", message = "Successfully Logged In!")
    return render_template("login.html", form = form)

@app.route("/logout")
def logout():
    if 'user' in session:
        session.pop('user')
    return redirect(url_for('homepage', _scheme='https', _external=True))

if __name__ == "__main__":
    app.run(debug=True, host="0.0.0.0", port=3000)
```

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