Project Challenge: Updating and Deleting Pets

In this challenge, you will be given the task of updating and deleting pets.

WE'LL COVER THE FOLLOWING

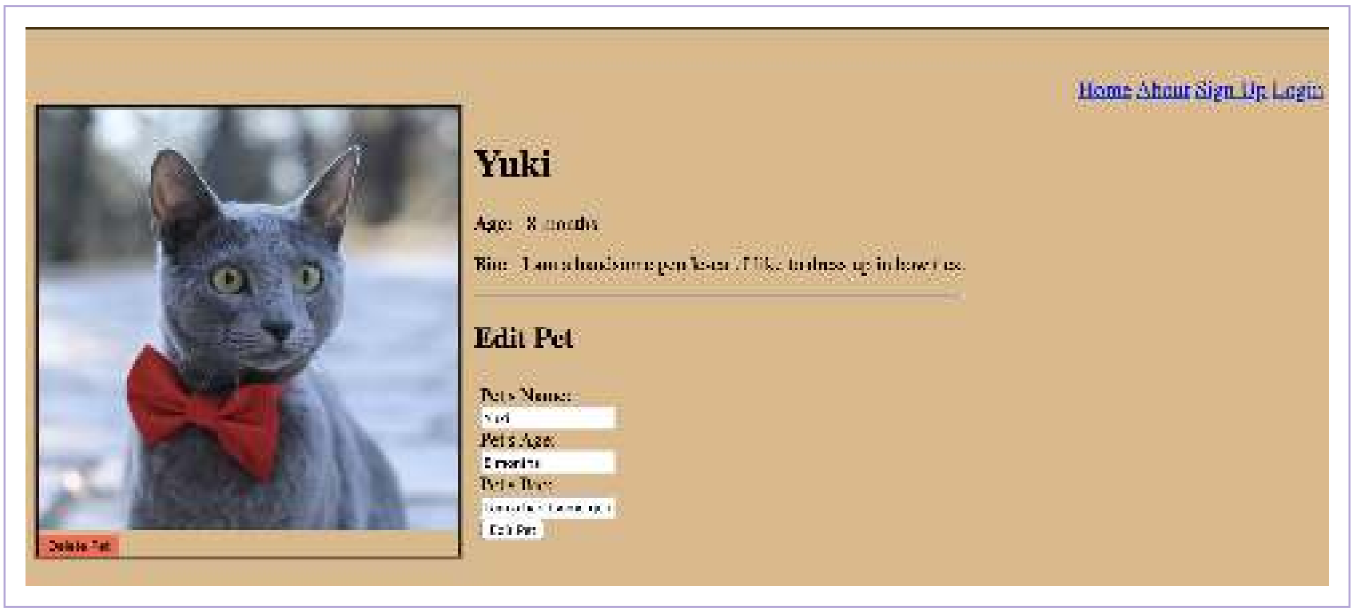
- Problem statement
  - Pet Details page - expected output
  - Pet Details page (after editing the pet) - expected output
  - Home page (after deleting the pet) - expected output
- Your implementation

Problem statement

In this challenge you are required to implement the following features:

- **Add and edit pet form:** you will create a new form that contains all the fields to edit a **pet**.
- **Modify `pet_details` to edit the pet:** make necessary changes in the `pet_details` view so that it can show the new form and handle form data to edit the **pet**.
- **Add a delete pet button:** you will create a button in the **Pet Details page** that can be used to delete the **pet**.
- **Add a `delete_pet` view:** for the purpose of deleting the **pet**, you will also have to create a new view called `delete_pet`. This view should redirect to the **Home page** after deletion.

Pet Details page - expected output



Home About Sign Up Login

Yuki

Age: 8 months

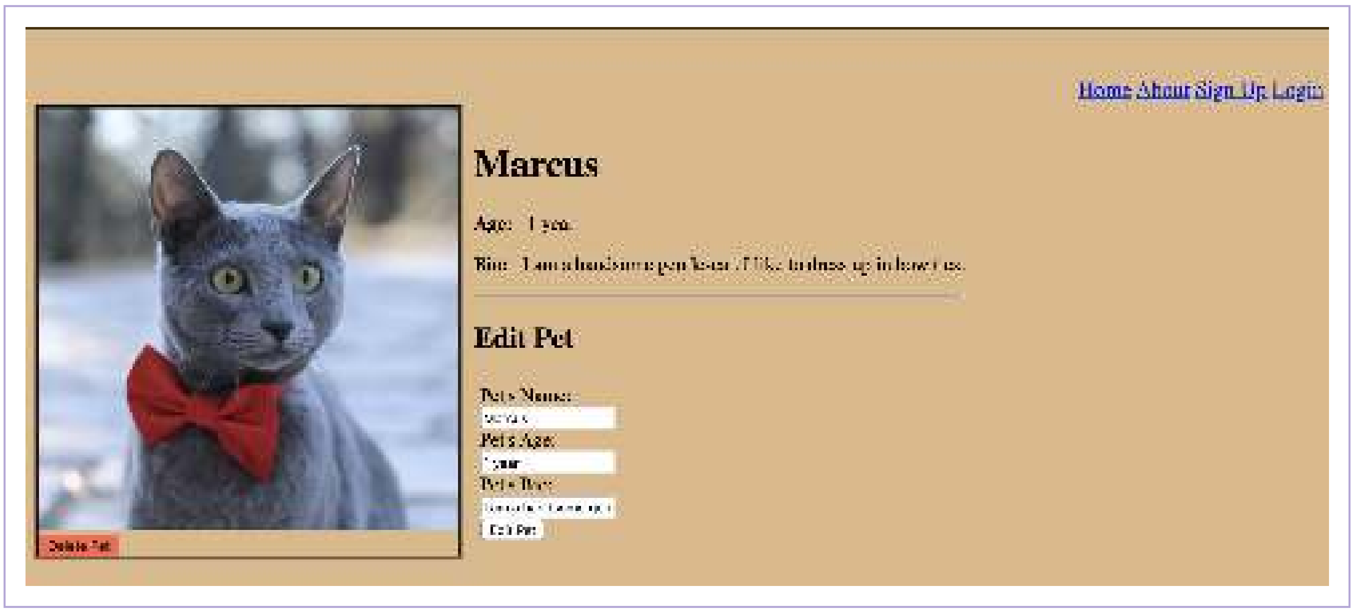
Bio: I am a handsome gentleman. I like to dress up in bow ties.

Edit Pet

Pet's Name:
Yuki
Pet's Age:
8 months
Pet's Bio:
[illegible]
Edit Pet

Pet Details Page - Expected Output

Pet Details page (after editing the pet) - expected output



Home About Sign Up Login

Marcus

Age: 1 year

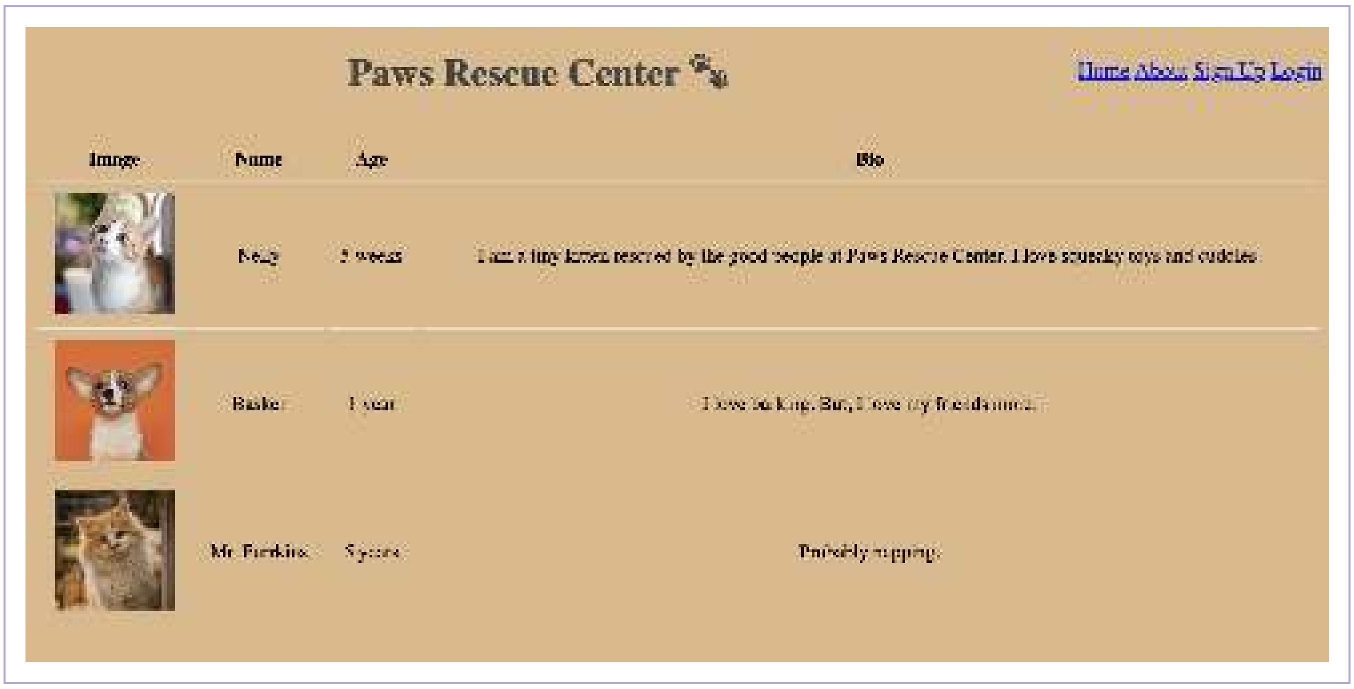
Bio: I am a handsome gentleman. I like to dress up in bow ties.

Edit Pet

Pet's Name:
Marcus
Pet's Age:
1 year
Pet's Bio:
[illegible]
Edit Pet

Pet Details Page (After Editing the Pet) - Expected Output

Home page (after deleting the pet) - expected output



Paws Rescue Center 🐾

Home About Sign Up Login

Image	Name	Age	Bio
	Nelly	5 weeks	I am a tiny kitten rescued by the good people at Paws Rescue Center. I love squeaky toys and cuddles.
	Basker	1 year	I love barking. But, I love my friends more.
	Mr. Furrkins	5 years	Probably napping.

Home Page (After Deleting the Pet) - Expected Output

Your implementation

```
"""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)
    posted_by =  db.Column(db.String, db.ForeignKey('user.id'))


"""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)
    pets = db.relationship('Pet', backref = 'user')

db.create_all()

# Create "team" user and add it to session
team = User(full_name = "Pet Rescue Team", email = "team@petrescue.co", password = "adminpass
db.session.add(team)

# Create all pets

nelly = Pet(name = "Nelly", age = "5 weeks", bio = "I am a tiny kitten rescued by the good pe
yuki = Pet(name = "Yuki", age = "8 months", bio = "I am a handsome gentle-cat. I like to dres
basker = Pet(name = "Basker", age = "1 year", bio = "I love barking. But, I love my friends m
mrfurrkins = Pet(name = "Mr. Furrkins", age = "5 years", bio = "Probably napping.")

# Add all pets to the session
db.session.add(nelly)
db.session.add(yuki)
db.session.add(basker)
db.session.add(mrfurrkins)

# Commit changes in the session
try:
    db.session.commit()
except Exception as e:
    db.session.rollback()
finally:
    db.session.close()

@app.route("/")
def homepage():
    """View function for Home Page."""
    pets = Pet.query.all()
    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)
    pet = Pet.query.get(pet_id)
    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 = User(full_name = form.full_name.data, email = form.email.data, password =
        db.session.add(new_user)
        try:
            db.session.commit()
        except Exception as e:
            print(e)
            db.session.rollback()
            return render_template("signup.html", form = form, message = "This Email already
        finally:
            db.session.close()
        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 = User.query.filter_by(email = form.email.data, password = form.password.data).f
        if user is None:
            return render_template("login.html", form = form, message = "Wrong Credentials. P
        else:
            session['user'] = user.id
            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)
```

Let’s take a look at the solution to this challenge in the next lesson.