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Adoption Shelter Solution
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part-1/models.py
 """Models for adopt app."""
 from flask_sqlalchemy import SQLAlchemy
 GENERIC_IMAGE = "https://mylostpetalert.com/wp-content/themes/mlpa-child/images/nophoto.gif"
 db = SQLAlchemy()
 class Pet(db.Model):
     """Adoptable pet."""
     __tablename__ = "pets"
     id = db.Column(db.Integer, primary_key=True)
     name = db.Column(db.Text, nullable=False)
     species = db.Column(db.Text, nullable=False)
     photo_url = db.Column(db.Text)
     age = db.Column(db.Integer)
     notes = db.Column(db.Text)
     available = db.Column(db.Boolean, nullable=False, default=True)
     def image_url(self):
         """Return image for pet -- bespoke or generic."""
         return self.photo_url or GENERIC_IMAGE
 def connect_db(app):
     """Connect this database to provided Flask app.
     You should call this in your Flask app.
     db.app = app
     db.init_app(app)
part-1/app.py
 """Flask app for adopt app."""
 from flask import Flask, url_for, render_template, redirect, flash, jsonify
 from flask_debugtoolbar import DebugToolbarExtension
 from models import db, connect_db, Pet
 from forms import AddPetForm, EditPetForm
 app = Flask(__name__)
 app.config['SECRET_KEY'] = "abcdef"
 app.config['SQLALCHEMY_DATABASE_URI'] = "postgresql:///adopt"
 app.config['SQLALCHEMY_TRACK_MODIFICATIONS'] = False
 connect_db(app)
 db.create_all()
 # Having the Debug Toolbar show redirects explicitly is often useful;
 # however, if you want to turn it off, you can uncomment this line:
 # app.config['DEBUG_TB_INTERCEPT_REDIRECTS'] = False
 toolbar = DebugToolbarExtension(app)
 @app.route("/")
 def list_pets():
     """List all pets."""
     pets = Pet.query.all()
     return render_template("pet_list.html", pets=pets)
 @app.route("/add", methods=["GET", "POST"])
 def add_pet():
     """Add a pet."""
     form = AddPetForm()
     if form.validate_on_submit():
         data = {k: v for k, v in form.data.items() if k != "csrf_token"}
         new_pet = Pet(**data)
         # new_pet = Pet(name=form.name.data, age=form.age.data, ...)
         db.session.add(new_pet)
         db.session.commit()
         flash(f"{new_pet.name} added.")
         return redirect(url_for('list_pets'))
     else:
         # re-present form for editing
         return render_template("pet_add_form.html", form=form)
 @app.route("/<int:pet_id>", methods=["GET", "POST"])
 def edit_pet(pet_id):
     """Edit pet."""
     pet = Pet.query.get_or_404(pet_id)
     form = EditPetForm(obj=pet)
     if form.validate_on_submit():
         pet.notes = form.notes.data
         pet.available = form.available.data
         pet.photo_url = form.photo_url.data
         db.session.commit()
         flash(f"{pet.name} updated.")
         return redirect(url_for('list_pets'))
     else:
         # failed; re-present form for editing
         return render_template("pet_edit_form.html", form=form, pet=pet)
 @app.route("/api/pets/<int:pet_id>", methods=['GET'])
 def api_get_pet(pet_id):
     """Return basic info about pet in JSON."""
     pet = Pet.query.get_or_404(pet_id)
     info = {"name": pet.name, "age": pet.age}
     return jsonify(info)
part-1/forms.py
 """Forms for adopt app."""
 from flask_wtf import FlaskForm
 from wtforms import StringField, IntegerField, SelectField, TextAreaField, BooleanField
 from wtforms.validators import InputRequired, Length, NumberRange, URL, Optional
 class AddPetForm(FlaskForm):
     """Form for adding pets."""
     name = StringField(
         "Pet Name",
        validators=[InputRequired()],
     species = SelectField(
         "Species",
         choices=[("cat", "Cat"), ("dog", "Dog"), ("porcupine", "Porcupine")],
     photo_url = StringField(
         "Photo URL",
         validators=[Optional(), URL()],
     age = IntegerField(
         "Age",
         validators=[Optional(), NumberRange(min=0, max=30)],
     notes = TextAreaField(
         "Comments",
         validators=[Optional(), Length(min=10)],
 class EditPetForm(FlaskForm):
     """Form for editing an existing pet."""
     photo_url = StringField(
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{{ form.hidden_tag() }}

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part-1/templates/_form.html

{% extends 'base.html' %}

<h1>{{ pet.name }}</h1>

{% if pet.photo_url %}

<form method="POST">

{% include "_form.html" %}

{% endif %}

</form>

<h2>Update</h2>

{% endblock %}

<button class="btn btn-primary" type="submit">Update/button>

{% block content %}

"Photo URL",

notes = TextAreaField(

"Comments",

validators=[Optional(), URL()],

available = BooleanField("Available?")

validators=[Optional(), Length(min=10)],

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{% for field in form if field.widget.input_type != 'hidden'%}
 <div class='form-group'>
   {{ field.label }}
   {{ field(class="form-control") }}
   <span>
       {% if field.errors %}
         {% for error in field.errors %}
                  <br/>
<br/>
documents of the class="text-danger">{{ error }}</b>
         {% endfor %}
       {% endif %}
     </span>
 </div>
 {% endfor %}
part-1/templates/pet_list.html
 {% extends 'base.html' %}
 {% block content %}
 <h1>0ur Pets</h1>
 <div class="row pets-listing">
   {% for pet in pets %}
   <div class="col-3">
     <img class="img-thumbnail" src="{{ pet.image_url() }}">
     <a href="{{ url_for('edit_pet', pet_id=pet.id) }}">{{ pet.name }}</a>
     {% if pet.available %} <b> is available!</b> {% endif %}
   </div>
   {% else %}
   <div class="col-12">No pets yet.</div>
   {% endfor %}
 </div>
 <a class="btn btn-primary" href="{{ url_for('add_pet') }}">Add a Pet</a>
 {% endblock %}
part-1/templates/pet_add_form.html
 {% extends 'base.html' %}
 {% block content %}
 <h1>Add a Pet</h1>
 <form method="POST">
   {% include "_form.html" %}
   <button class="btn btn-primary" type="submit">Add</button>
 </form>
 {% endblock %}
part-1/templates/pet_edit_form.html
```