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Springboard
                                          Blogly Solution: Part Two
                                                                                                                      🌋 Springboard
  Blogly Solution: Part Two
                                          The solution is provided in three parts. Download solution.
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                                          Part Two
Part Two
                                           part-two/models.py
 Templates: Users
                                            """SQLAlchemy models for blogly."""
 Templates: Posts
                                            import datetime
Part Three
                                            from flask_sqlalchemy import SQLAlchemy
                                            db = SQLAlchemy()
                                            DEFAULT_IMAGE_URL = "https://www.freeiconspng.com/uploads/icon-user-blue-symbol-people-person-generic--public-domain--21.png"
                                            class User(db.Model):
                                                """Site user."""
                                                __tablename__ = "users"
                                                id = db.Column(db.Integer, primary_key=True)
                                                first_name = db.Column(db.Text, nullable=False)
                                                last_name = db.Column(db.Text, nullable=False)
                                                image_url = db.Column(db.Text, nullable=False, default=DEFAULT_IMAGE_URL)
                                                posts = db.relationship("Post", backref="user", cascade="all, delete-orphan")
                                                @property
                                                def full_name(self):
                                                    """Return full name of user."""
                                                    return f"{self.first_name} {self.last_name}"
                                            class Post(db.Model):
                                                """Blog post."""
                                                __tablename__ = "posts"
                                                id = db.Column(db.Integer, primary_key=True)
                                                title = db.Column(db.Text, nullable=False)
                                                content = db.Column(db.Text, nullable=False)
                                                created_at = db.Column(
                                                    db.DateTime,
                                                    nullable=False,
                                                    default=datetime.datetime.now)
                                                user_id = db.Column(db.Integer, db.ForeignKey('users.id'), nullable=False)
                                                @property
                                                def friendly_date(self):
                                                    """Return nicely-formatted date."""
                                                    return self.created_at.strftime("%a %b %-d %Y, %-I:%M %p")
                                            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-two/app.py
                                           from flask import Flask, request, redirect, render_template, flash
                                            from flask_debugtoolbar import DebugToolbarExtension
                                            from models import db, connect_db, User, Post
                                            app = Flask(__name__)
                                            app.config['SQLALCHEMY_DATABASE_URI'] = "postgresql://blogly"
                                            app.config['SQLALCHEMY_TRACK_MODIFICATIONS'] = False
                                            app.config['SECRET_KEY'] = 'ihaveasecret'
                                            # 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)
                                            connect_db(app)
                                            db.create_all()
                                           @app.route('/')
                                            def root():
                                                """Show recent list of posts, most-recent first."""
                                                posts = Post.query.order_by(Post.created_at.desc()).limit(5).all()
                                                return render_template("posts/homepage.html", posts=posts)
                                            @app.errorhandler(404)
                                            def page_not_found(e):
                                                """Show 404 NOT FOUND page."""
                                                return render_template('404.html'), 404
                                            # User route
                                            @app.route('/users')
                                            def users_index():
                                                """Show a page with info on all users"""
                                                users = User.query.order_by(User.last_name, User.first_name).all()
                                                return render_template('users/index.html', users=users)
                                            @app.route('/users/new', methods=["GET"])
                                            def users_new_form():
                                                """Show a form to create a new user"""
                                                return render_template('users/new.html')
                                            @app.route("/users/new", methods=["POST"])
                                            def users_new():
                                                """Handle form submission for creating a new user"""
                                                new_user = User(
                                                    first_name=request.form['first_name'],
                                                    last_name=request.form['last_name'],
                                                    image_url=request.form['image_url'] or None)
                                                db.session.add(new_user)
                                                db.session.commit()
                                                flash(f"User {new_user.full_name} added.")
                                                return redirect("/users")
                                            @app.route('/users/<int:user_id>')
                                            def users_show(user_id):
                                                """Show a page with info on a specific user"""
                                                user = User.query.get_or_404(user_id)
                                                return render_template('users/show.html', user=user)
                                            @app.route('/users/<int:user_id>/edit')
                                            def users_edit(user_id):
                                                """Show a form to edit an existing user"""
                                                user = User.query.get_or_404(user_id)
                                                return render_template('users/edit.html', user=user)
                                            @app.route('/users/<int:user_id>/edit', methods=["POST"])
                                            def users_update(user_id):
                                                """Handle form submission for updating an existing user"""
                                                user = User.query.get_or_404(user_id)
                                                user.first_name = request.form['first_name']
                                                user.last_name = request.form['last_name']
                                                user.image_url = request.form['image_url']
                                                db.session.add(user)
                                                db.session.commit()
                                                flash(f"User {user.full_name} edited.")
                                                return redirect("/users")
                                            @app.route('/users/<int:user_id>/delete', methods=["POST"])
                                            def users_destroy(user_id):
                                                """Handle form submission for deleting an existing user"""
                                                user = User.query.get_or_404(user_id)
                                                db.session.delete(user)
                                                db.session.commit()
                                                flash(f"User {user.full_name} deleted.")
                                                return redirect("/users")
                                            # Posts route
                                            @app.route('/users/<int:user_id>/posts/new')
                                            def posts_new_form(user_id):
                                                """Show a form to create a new post for a specific user"""
                                                user = User.query.get_or_404(user_id)
                                                return render_template('posts/new.html', user=user)
                                            @app.route('/users/<int:user_id>/posts/new', methods=["POST"])
                                            def posts_new(user_id):
                                                """Handle form submission for creating a new post for a specific user"""
                                                user = User.query.get_or_404(user_id)
                                               new_post = Post(title=request.form['title'],
                                                                content=request.form['content'],
                                                                user=user)
                                                db.session.add(new_post)
                                                db.session.commit()
                                                flash(f"Post '{new_post.title}' added.")
                                                return redirect(f"/users/{user_id}")
                                            @app.route('/posts/<int:post_id>')
                                            def posts_show(post_id):
                                                """Show a page with info on a specific post"""
                                                post = Post.query.get_or_404(post_id)
                                                return render_template('posts/show.html', post=post)
                                            @app.route('/posts/<int:post_id>/edit')
                                            def posts_edit(post_id):
                                                """Show a form to edit an existing post"""
                                                post = Post.query.get_or_404(post_id)
                                                return render_template('posts/edit.html', post=post)
                                            @app.route('/posts/<int:post_id>/edit', methods=["POST"])
                                            def posts_update(post_id):
                                                """Handle form submission for updating an existing post"""
                                               post = Post.query.get_or_404(post_id)
                                                post.title = request.form['title']
                                                post.content = request.form['content']
                                                db.session.add(post)
                                                db.session.commit()
                                                flash(f"Post '{post.title}' edited.")
                                                return redirect(f"/users/{post.user_id}")
                                            @app.route('/posts/<int:post_id>/delete', methods=["POST"])
                                            def posts_destroy(post_id):
                                                """Handle form submission for deleting an existing post"""
                                               post = Post.query.get_or_404(post_id)
                                                db.session.delete(post)
                                                db.session.commit()
                                                flash(f"Post '{post.title} deleted.")
                                                return redirect(f"/users/{post.user_id}")
                                          Templates: Users
                                           part-two/templates/users/show.html
                                            {% extends 'base.html' %}
                                            {% block title %}{{ user.full_name }}{% endblock %}}
                                            {% block content %}
                                            <div class="row">
                                              {% if user.image_url %}
                                              <div class="col-sm-2 col-6">
                                                <img src="{{ user.image_url }}"</pre>
                                                     alt="{{ user.full_name }}"
                                                     class="img-fluid">
                                              </div>
                                              {% endif %}
                                              <div class="col-sm-10 col-12">
                                                <h1>{{ user.full_name }}</h1>
                                                <form>
                                                  <button class="btn btn-primary btn-sm"</pre>
                                                          formaction="/users/{{ user.id }}/edit"
                                                          formmethod="GET">Edit
                                                  </button>
                                                  <button class="btn btn-danger btn-sm"</pre>
                                                          formaction="/users/{{ user.id }}/delete"
                                                          formmethod="POST">Delete
                                                  </button>
                                                </form>
                                                <h2 class="mt-4">Posts</h2>
                                                ul>
                                                  {% for post in user.posts %}
                                                  <
                                                    <a href="/posts/{{ post.id}}">{{ post.title }}</a>
                                                    <small>{{ post.friendly_date }}</small>
                                                  {% endfor %}
                                                </ul>
                                                <a href="/users/{{ user.id }}/posts/new" class="btn btn-primary">Add Post</a>
                                              </div>
                                            </div>
                                            {% endblock %}
                                          Templates: Posts
                                          part-two/templates/posts/show.html
                                            {% extends 'base.html' %}
                                            {% block title %}{{ post.title }}{% endblock %}
                                            {% block content %}
                                              <h1>{{ post.title }}</h1>
                                              {{ post.content }}
                                              <i>By {{ post.user.full_name }}
                                                on {{ post.friendly_date }}
                                             </i>>/p>
                                            <form>
                                              <button class="btn btn-outline-primary"</pre>
                                                      formmethod="GET"
                                                     formaction="/users/{{ post.user_id }}">Cancel</button>
                                              <button class="btn btn-primary"</pre>
                                                      formmethod="GET"
                                                     formaction="/posts/{{ post.id }}/edit">Edit</button>
                                              <button class="btn btn-danger"</pre>
                                                      formmethod="POST"
                                                      formaction="/posts/{{ post.id }}/delete">Delete</button>
                                            </form>
                                            {% endblock %}
                                           part-two/templates/posts/new.html
                                            {% extends 'base.html' %}
                                            {% block title %}Add Post{% endblock %}
                                            {% block content %}
                                            <h1>Add Post for {{ user.full_name }}</h1>
                                            <form method="POST">
                                              <div class="form-group row">
                                                <label for="title" class="col-sm-2 col-form-label">Title</label>
                                                <div class="col-sm-10">
                                                 <input class="form-control" id="title" name="title">
                                                </div>
                                              </div>
                                              <div class="form-group row">
                                                <label for="content" class="col-sm-2 col-form-label">Content</label>
                                                <div class="col-sm-10">
                                                  <textarea class="form-control" id="content" name="content"></textarea>
                                                </div>
                                              </div>
                                              <div class="form-group row">
                                                <div class="ml-auto mr-3">
                                                  <a href="/users/{{ user.id }}" class="btn btn-info">Cancel</a>
                                                  <button type="submit" class="btn btn-success">Add</button>
                                                </div>
                                              </div>
                                            </form>
                                            {% endblock %}
                                           part-two/templates/posts/edit.html
                                            {% extends 'base.html' %}
                                            {% block title %}Edit Post{% endblock %}
                                            {% block content %}
                                            <h1>Edit Post</h1>
                                            <form method="POST" action="/posts/{{ post.id }}/edit">
                                             <div class="form-group row">
                                                <label for="title" class="col-sm-2 col-form-label">Title</label></label>
                                                <div class="col-sm-10">
                                                  <input class="form-control" id="title" name="title" value="{{ post.title }}">
                                                </div>
                                              </div>
                                              <div class="form-group row">
                                                <label for="content" class="col-sm-2 col-form-label">Post Content</label>
                                                <div class="col-sm-10">
                                                  <textarea class="form-control"
                                                            id="content"
                                                            name="content">{{ post.content }}</textarea>
                                                </div>
                                              </div>
                                              <div class="form-group row">
                                                <div class="ml-auto mr-3">
                                                  <a href="/users/{{ post.user_id }}" class="btn btn-outline-info">
                                                    Cancel
                                                  </a>
                                                  <button type="submit" class="btn btn-success">
                                                  </button>
                                                </div>
                                             </div>
                                            </form>
                                            {% endblock %}
                                          part-two/templates/posts/homepage.html
                                            {% extends 'base.html' %}
                                            {% block title %}Blogly{% endblock %}
                                            {% block content %}
                                            <h1>Blogly Recent Posts</h1>
                                            {% for post in posts %}
                                            <h2 class="mt-4">
                                              <a href="/posts/{{ post.id }}">{{ post.title }}</a>
                                            </h2>
                                            {{ post.content }}
                                             <small>By {{ post.user.full_name }} on {{ post.friendly_date }}</small>
                                            {% endfor %}
                                            {% endblock %}}
                                          Part Three
```

See solution for Part Three