Flask-SQLAlchemy

- Add-on product to integrate Flask and SQLAlchemy
- Benefits
  - Ties SQLAlchemy session to Flask response
  - Simplifies finding things in SQLAlchemy API
  - Simplifies querying by allowing on class

Differences

- With Flask-SQLAlchemy, all useful methods are on *db.*
  - With vanilla SQLAlchemy, stuff is spread all over
  - There are useful web-related methods, like `Pet.objects.get_or_404(pk)`

Demo

Demo: Listing

demo/app.py

```python
@app.route("/")
def list_pets():
    """List pets and show add form."""

    pets = Pet.query.all()
    return render_template("list.html", pets=pets)
```

demo/templates/list.html

```html
<ul>
  {% for pet in pets %}
  <li><a href="/{{ pet.id }}">{{ pet.name }}</a></li>
  {% endfor %}
</ul>
```

Demo: Adding

demo/templates/list.html

```html
<form method="POST">
  <p>Name:     <input name="name"></p>
  <p>Species:  <input name="species"></p>
  <p>Hunger:   <input name="hunger"></p>
  <button>Save</button>
</form>
```