



duck of the week - finance duck

WHILE WAITING:

Download Birthdays
from the lab page of
the CS50 website.

CS50 Week 9 Lab

Gabe LeBlanc | 11/9/22

The Next Few Weeks

This Sunday: Pset 9 Due, Final Project Proposal Due

Start week 9 asap, and remember: you can work as a group on the project!

Sunday after that: Test Due

Practice materials on the website! GOOGLE, GOOGLE, GOOGLE

Week after that: Thanksgiving Break

From there: You submit a status report to me and work on your final project.

tinyurl.com/gabecs50feedback

(and evaluate me on the Q Guide!)

Tips for Week 9

- Create your tables **MANUALLY** using phpLiteAdmin
- **DO NOT** copy and paste HTML format like in Pset 8
- Minimize amount and complexity of queries

As always, **go to tutorials and office hours and post on Ed**. There are *no tutorials* during the week of the test, and Ed will be frozen starting on Monday.

Lab 9: Birthdays

Lab Procedure

1. Analyze birthdays.db database (open in phpLiteAdmin)
2. In index.html, add a form to submit a person into the birthdays database.
3. In app.py, add a user's entry into the database. (POST)
4. In app.py, trigger the displaying of the table of all entries. (GET)

hint: index.html can be rendered as a template with a table input!

5. In index.html, display the table of all entries.

Forms

```
<!DOCTYPE html>

<html lang="en">
  <head>
    <meta name="viewport" content="initial-scale=1, width=device-width">
    <title>hello</title>
  </head>
  <body>
    <form action="/greet" method="get">
      <input autocomplete="off" autofocus name="name" placeholder="Name" type="text">
      <button type="submit">Greet</button>
    </form>
  </body>
</html>
```

Jinja

- To finalize this implementation, you will need another template for `greet.html` as follows:

```
<!DOCTYPE html>

<html lang="en">
  <head>
    <meta name="viewport" content="initial-scale=1, width=device-width">
    <title>hello</title>
  </head>
  <body>
    hello, {{ name }}
  </body>
</html>
```

Notice that this route will now render the greeting to the user, followed by their name.

For Loops

- Next, create a file in the `templates` folder called `index.html` by typing `code templates/index.html` and write code as follows:

```
{% extends "layout.html" %}

{% block body %}
    <h1>Register</h1>
    <form action="/register" method="post">
        <input autocomplete="off" autofocus name="name" placeholder="Name" type="text">
        <select name="sport">
            <option disabled selected>Sport</option>
            {% for sport in sports %}
                <option value="{{ sport }}">{{ sport }}</option>
            {% endfor %}
        </select>
        <button type="submit">Register</button>
    </form>
{% endblock %}
```

Rendering Templates

```
@app.route("/register", methods=["POST"])
def register():

    # Validate name
    name = request.form.get("name")
    if not name:
        return render_template("error.html", message="Missing name")
```

Test Review / OH

aka a crash course in googling

(also see course's recorded sessions!)

Week 0: Scratch

Week 5: Data Structures

Week 1: C

Week 6: Python

Week 2: Arrays

Week 7: SQL

Week 3: Algorithms

Week 8: HTML/CSS/Javascript

Week 4: Memory

Week 9: Python/SQL/Web

Thank you for a great lab :)

As you move to your final project, please do not hesitate to email me with questions - I'm here to help you succeed! You've got this.