asgn07 Active Birds

Objectives

- Use the Active Record Design Pattern.
- Discover how the Active Record Design Pattern mimics the OOP class.
- Modify existing code to create a new application.
- Reuse OOP code to your advantage.
- Use a git branch
- Push your finished site to your webhost

What to watch

Watch chapter three: Define a Database-driven class

The Active Record Pattern is probably the most important coding technique you will learn in this class. The good news is, once it is set up, you won't need to modify it. You will need to modify it for this assignment, but we will make it more generic and reusable in the future.

Setup

- Create a folder named **web250-oopdb**.
- Create a folder named **web250-oopdb/asgn07-active-birds.**

- Create a local database named **sabirds**. The SQL code is provided for you in **asgn06**. I have put the same code in **asgn07-active-birds**. Note at the top of the code, which command you can use locally and which ones you will need to remove before creating a database on your webost.

NOTE: I have removed **nest placement** and **behavior**. This was to save screen space.

Starter code

You have two choices

1. Use the starer code provided. It is the solution code from **asgn05-bird-challenge**. I have removed all of the CSS.
2. Use your own code you finished with for **asgn05-bird-challenge**.

Delete the file **wncbirds.csv** as we will no longer need it. I left it in, in case you wanted to test it before running the database connection.

OOP - Code reuse

OOP code is designed for reuse. It takes a long time to write code that is generic enough to reuse it with other applicattions. To begin with, our code will be specific to the bird application but it will change and become more generic as the term progresses.

Save yourself some time and copy the following files from **03_06-final/chain_gang/** and paste it in the corresponding folders in **asgn07-active-birds.** You will need to modify some of the files, but there is nothing gain by re-typing the code.

Code to copy from chapter 03_06-final/chain_gang

```
db_credentials.php
initinalize.php
database_functions.php
functions.php
detail.php
```

git and GitHub

Continue using git and create a **dev** branch and checkout to it.

Feel free to use the Git GUI included with VS Code if you don't want to code Git by hand. Otherwise, here are the commands.

I've included the following which is a shortcut to create a branch named **dev** and checkout to **dev.**

```
git add .
git commit -m "Initial commit for OOP database section"
git checkout -b dev
```

Once you have completed the assignment, you must merge with your main branch.

```
git add .
git commit -"Finished asgn07 active birds."
git checkout main
git merge dev
```

Upload to your webhost

Make sure to change the **db_credentials.php** file so it works with your webhost's database.

What to submit

In Moodle

- Your webhosts's URL.
- The address to your GitHub account so I can clone your code and run it.