San José State University
Department of Computer Science

CS/SE 157B
Section 3
Database Management Systems II
Spring 2018
Instructor: Ron Mak

Assignment #2

Assigned: Tuesday, February 20
Due: Wednesday, February 28 at 11:59 pm
Team assignment, 100 points max

PHP functions and object-relational mapping

Write a simple end-to-end web application that uses PHP to connect to a MySQL/MariaDB database. You can use the database that you designed and implemented for Assignment #1, or you can start over with a new database.

You should start to develop a database that you can use for future assignments.

Requirements

Requirements for your application.

- Use object-oriented PHP (declare classes to retrieve data).
- Use PHP functions with type hinting.
- Use PHP Data Objects (PDO).
- Retrieve data from the database as objects.
- Use basic HTML forms that collect data from users.
- Use the form data to make one or more queries into your database.
- Use the data retrieved from the database to dynamically generate a new web page as the response which incorporates the retrieved data.

This assignment is primarily about the server side. Your client-side HTML only needs to be as functional as required to make the server-side code work and does not need to be especially fancy or pretty.

What to turn in

There should be one submission per team:

- A dump of your database. Use phpMyAdmin's **Export** tab to create an SQL file that can recreate your database and its data.
- Your PHP code.
- Your HTML code.
- Screen shots of your HTML form and the dynamically generated response page.

Create a single zip file containing these files. Name the zip file after your team. Example: **SuperCoders.zip**. Submit to Canvas: **Assignment #2**

Rubric

Your application will be graded according to these criteria:

Criteria	Maximum points
Server-side PHP code • Object-oriented with PDO and classes for data retrieval • Functions with type hinting • One or more queries based on form data • Data retrieved from the database as objects • Dynamically generated HTML response page that incorporates retrieved data	**80** • 20 • 10 • 20 • 10 • 20
Database • Dump of the database	**10** • 10
Client-side HTML • Screen shot of the HTML form • Screen shot of the dynamically generated response page	**10** • 5 • 5