

CS 275: Web Programming

Programming Assignment 5

March 17, 2014

Due: March 24th, 2014 before the beginning of the class period

For this assignment, we will extend design from our previous assignment and implement its functionality via HTML and PHP scripts. We will be working with the 'restaurant' database from our previous assignment. For testing purposes regarding connecting to MySQL database, create a web user for your scripts called 'webRestaurantUser' with the password 'acm1234', following the principle of least privilege. The database for this assignment is called 'restaurants' and will be provided along with this homework specifications.

1. Inserting data into database (40 pts.)

For each table in your database, provide a web form that allows end-users to insert records into all of the tables in the database. Make sure that the data entered into the database is checked for appropriate data types (i.e., that numbers are indeed stored as numbers). Please make sure to provide the end-user with appropriate feedback, both in case that insertion is successful and in case that data insertion went wrong.

To initially populate data, please create a .sql file that contains information about a single restaurant in Ashland, OH of your choice to be inserted into our database. For this restaurants, insert into database information about at least 10 different dishes and their prices. In addition, provide the reviews for both the restaurant and for the dishes to be inserted into the database. Each table in your database should contain at least 5 different records, if not more.

2. Retrieving data from database (60 pts.)

Develop a web form for each of the queries specified below. The end-user will enter the appropriate information in the web form, and your database will then be queried to provide the answers and display them in the web browser. Please make sure that the end-user has all information necessary to run their queries in the web user interface.

The end-user of your database is to have the ability to perform the following functionality:

- Search for a restaurant(s) given its :
 - o name or a part of its name
 - o type of cuisine (e.g., Italian, American, etc.)
 - o specific dishes served at a restaurant
 - o average visitor rating (rating scale is from 1 (worst) to 10 (best))
- Retrieve the following information:
 - o A list of all dishes, their prices, and their ratings served at a particular restaurant
 - o A list of all dishes above a specific rating from all restaurants
 - o A rating for a specific restaurant and a specific dish by a particular customer
 - o An average rating for a specific restaurant or a specific dish
 - o A list of reviews for a specific restaurant and a specific dish
 - o A list of restaurants that serve a specific dish or a specific type of cuisine
 - o A list of reviews for dishes and restaurants written by a specific customer
 - o A list of all dishes in a particular price range specified by the customer

Please make sure that the end-user can navigate your pages in a meaningful way and that all of the functionality for this project can be reached from the start page called 'index.html'.

Turn In Procedures:

In addition to an electronic copy of your assignment, please turn in a printout of your source code.

You may turn in your assignment via email (bkerkez@yahoo.com) or in person on a CD, flash drive, or other computer media. Please follow the turn in procedures outlined below.

In case you would like to turn in your assignment via email, please place the following in the subject line of your email:

CS275 Assignment 5

Please make sure that I receive your assignments before the due date and time. Late programming assignments will be accepted for 24 hours after they are due and will be penalized by a 50% deduction. No assignments will be accepted after the 24 hour period expires.