

Due Date: April 12th 2017 by 11:59 p.m. in the FOL drop box. No late submissions will be accepted without proper documentation.

This project is individual work. Sharing of ideas is encouraged, however, each student must do his or her own work. Copying or any other form of plagiarism will be reported.

NOTE: This project is designed to give students additional practice using some of the most widely used web-development tools on the Internet today.

Instructions:

For this project, you are to create a simple web-based contacts list application. The application must allow a user to **search for, display, add, edit and delete contact information**. For the purposes of this project, contact information shall include the following fields only:

- A person's first name
- A person's last name
- A city name
- The region where the city is located (e.g. Province)
- Up to 2 email addresses
- Up to 2 phone numbers

This data is to be stored in a table called 'addresses' in a MySQL database named 'lamp2contacts'

The provided SQL script file lamp2project2.sql contains the SQL commands to create the database and table along with a user account with the required permissions to manage the data in the table. This script can be run by opening the MySQL CLI and issuing the command 'source lamp2project2.sql' (you may need to include the path along with the file name).

The application must meet the following technical requirements:

- This application is to be written using PHP, HTML and JavaScript.
- The initial page load for the application will use the HTTP GET method.
- After the initial page load, all client/server communications MUST use AJAX via the jQuery library, using GET and POST methods as appropriate for a particular request.
- You may use JSON or HTML response formats.
- All contact data must be stored in a MySQL database as described above. Your database schema must EXACTLY match the one in the provided SQL script.

- No specific CSS or browser compatibility restrictions exist. However, Firefox and Chrome will be used when marking submitted code.
- All requests MUST be made to relative URLs.
- The list of search results is NOT the same as displaying contact information. For example, the search results might show the first and last names of all contacts matching the search criteria in a list, while the display function shows all information about a single contact.

Specific instructions on how to layout a page, navigation and appearance are NOT included in the project description. Please be creative, but remember that the correct functioning of the application is much more important in this project than its appearance. This high degree of freedom in how you implement your application means that you must also write a short user's manual describing how to use your application.

Bonus

The bonus problem for this project is contained in the file Project2Bonus.pdf. See that file for instructions. Please ignore any references to an additional bonuses in that file.

Marking Scheme:

Description	Value
MySQL database used and the table that stores contact information matches the given structure	/10
PHP, HTML and JavaScript are the only programming/markup languages used	/10
AJAX communications after initial page load using the jQuery library	/10
Search function works correctly	/10
Display functionality works correctly	/10
Add functionality works correctly	/10
Edit functionality works correctly	/10
Delete functionality works correctly	/10
User's manual	/10
Use of reasonable coding standards and comments in code	/10
Total (basic project)	/100
Bonus (up to 5% of final grade)	/5

Submission:

You are to submit 2 files to the FOL drop box before the submission deadline. One of these files is to be a MS Word document containing your user's manual. The second file is to be a zip file containing all of your PHP, JavaScript and supporting file for the application. The contents of the zip file must be structured such that the file can be unzipped in /var/www/html and the application run without modification.

If you attempt the bonus portion of the project, you are to submit a third file, a zip file containing the entire bonus application. The requirements for this file are the same as for the basic application in the previous paragraph.