

CS6101 Assignment -

Web database with client-side sorting

Introduction

Create a web-site that includes a database. Users should be able to:

- search the database by entering search terms, etc., into a form
- receive a page back containing the search results, suitably formatted
- sort/re-order the search results on the client-side
 - i.e., without performing further searches of the database or requiring any other communication with the server.

The database can hold data on any topic you choose.

For example, your database might hold information on movies, and allow you to search using criteria such as director, lead actor(s), year of release, etc..

When a search is made, matching entries would be recovered from the database, formatted as an HTML page, and sent to the client.

The page would include a client-side script which allows the user to sort the returned results in various orders, e.g., by year, by alphabetical order of title or director, etc.

Requirements

The website should:

- Present users with a 'welcome' page which introduces the website and provides access to the database in the following ways:
 - A form into which users can enter search-terms, allowing the database to be searched under at least *three* different terms (e.g., 'title', 'director', 'date', in the case of a movie database)
 - A button which allows the user to select ALL entries in the database
- Return a PHP-generated page containing the search results:
 - presented with suitable formatting (e.g., as a table).
 - including buttons or other controls which allow the displayed results to be sorted in at least *three* different ways (e.g., in the case of a movie database, by alphabetical order of 'title' or 'director' or chronological order of release year.)
- Use MySQL and PHP on the server-side, and JavaScript on the client-side.
- Hold at least 20 records in its database

Marking

Marks will be awarded for the following:

- Inclusion of all the elements specified above.
 - Do not include unnecessary elements - they won't gain you marks and may lose you marks if they complicate marking of the submission.
- Use of valid HTML, JavaScript, PHP and MySQL.
- Reliable operation when viewed using Firefox or Safari on the Macintoshes in the Multimedia Laboratory.
- Appropriate use of comments, choice of variable names, etc., so as to make the code easy to read and understand.
- Good design, both with regard to technical implementation and appearance

Submission

- The assignment must be submitted by **5pm on Monday December 4th 2017**.
- To submit the assignment:
 - Create a folder, labelled with your name and student ID
 - For example: Jo_Bloggs_115123456
 - Place in this folder:
 - copies of the HTML and PHP source code for your assignment
 - any linked style-sheets or other files used in the assignment
 - a full description of the tables in your database and a list of their contents.
 - a 'read me' text file containing the URL of your assignment - the assignment should remain available at this URL until marking is complete.
 - Compress the folder
 - To do this on the Macs in the Multimedia Laboratory: select the folder, then select **Compress** from the **File** menu. This will generate another folder with the same name as the original but with the extension **.zip**
 - Submit the compressed folder via the link on the CS6101 Moodle page labelled 'Assignment - Submission' (this link will be activated shortly before the submission date).