**Project # 5** (Chapter 13, Chapter 17, **CodeIgniter**)

This project will have the same pages as project 4 plus a new page named artistdetails.html. You have to click on an artist name (on music.html) page and **pass that name** to [www.lastfm.com](http://www.lastfm.com) so that you retrieve information related to the artist. The artistdetails.html page shows details of the information collected at lastfm. The artustdetails.html page looks like other pages, just the main content should be based on what is described here.

You need to open an account at lastfm so that you can use their API.

**Setting up your project**

Download the zip file project5.zip. Unzip it inside your web server document root directory (ie, inside the htdocs sub-directory in the XAMPP installation directory). On Linux, you may have to do this as the root user.

The projectx directory contains 3 files: proxy.php, artistdetails.html, and music.js. The proxy script proxy.php is used to avoid the cross-domain restriction when using Ajax. All the web service requests to Last.Fm should go through this proxy. See the example in music.js. Your project is to edit artistdetails.html and music.js as described in the description of the web application.

**Getting an access key from lastfm**

You are going to use the Web Service REST API of the lastfm application. You first need to get an API access key from [Get an API Account at Lastfm](https://www.last.fm/api). The access key will allow you to send web service requests to LastFm(maximum 1 request per second).

After you get the API key, you put it in music.js and you test your setup on your web browser by using the URL address: http://localhost/project5/ artistdetails.html  
and by typing the name of your favorite singer/band. This will display information about the singer **in JSON form.**

**Documentation**

The following web pages contain various tutorials. Use them as a reference only. The class slides contain enough information on JavaScript and AJAX.

* [AJAX Tutorial](http://www.w3schools.com/ajax/default.asp)
* [Ajax](http://www.cs.rochester.edu/courses/210/spring2011/lectures/012/)
* [JavaScript Tutorial](http://www.w3schools.com/js/default.asp)
* [JavaScript](http://www.cs.rochester.edu/courses/210/spring2011/lectures/009/)

**Description of the Assignment**

Your project is to develop a web application to get information about an artist. This application should be developed using plain **JavaScript and Ajax**. You should not use any JavaScript library, such as JQuery. The Ajax requests should return JSON, not XML. Note that everything should be done asynchronously and your web page should never be redrawn/refreshed completely. This means that the buttons or any other input element in your HTML forms must have JavaScript actions, and should not be regular HTTP requests.

It should display the artist name, a link to the Last.fm web page of the artist, information about the artist (including a long biography), their picture (large), a list of their top albums (titles & pictures), and a list of names of similar artists. You need to use the following Last.fm methods :( you can also just use the first one, all the data that you need are available in Returned JSON by the first method)

* [Get the metadata for an artist, including biography](http://www.last.fm/api/show/artist.getInfo)
* [Get the top albums for an artist](http://www.last.fm/api/show/artist.getTopAlbums)
* [Get all the artists similar to this artist](http://www.last.fm/api/show/artist.getSimilar)

Note that there is a lot of information returned by these web services. You don't need to use them all. Just use some of them:

1. Artist name
2. Link to the Last.fm web page of the artist
3. Information about the artist (including a long biography)
4. Their picture (large)
5. A list of their top 3 albums (titles & pictures)
6. A list of names of 3 similar artists