COP4813/5819 Internet Programming
Spring 2014
Lab 4• March 12
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Due: March 24 (Monday)
Total points: 30

Question 1. Write an online music search engine using Echo Nest API. Echo Nest (see the reference below) provides abundant music data and services for developers to build music apps. In order to use the API, you first need to get an API key, which will be used in every request. More details about getting an API key and how to formulate an API call can be found in the following reference.

The first page of your music search site should provide a form with a text field for the user to enter an artist name and a submit button.

Search artist [ ] [submit]

Once the user clicks the submit button, your JavaScript should send a request using Echo Nest API to retrieve information related to that artist name. You will receive the response in the format of XML or JSON, and you can specify the file format in your request. If something went wrong during the process of request/response, a proper error message should be displayed on the web page. Sometimes you will receive multiple results and you should display all of them on the page for the user to select the one that s/he is interested. The following shows an example of received results from the search with artist name radiohead.

Search artist [radiohead] [submit]

Artist name: Radiohead

Artist name: Radiohead Tribute Band

Artist name: Wonky vs. Radiohead

Artist name: Radiohead Tribute – Meeting in the Aisle

Artist name: Meeting in the Aisle: a tribute to the Music of Radiohead

Once the user clicks on one of the returned artists, your JavaScript should send a request to retrieve more detailed information about that artist. Each artist has a unique Echo Nest ID and you should use the ID to retrieve more information about a particular artist. Detailed information includes the genre (pop, rock, jazz and etc.), the hotness of the artist, the three most similar artists, and the links to the three latest pieces of news about that artist. You can display the information in any styles that you prefer for clarity.

Reference

The Echo Nest – the Intelligent Music Application Platform, http://the.echonest.com/

Echo Nest API and tutorials, http://developer.echonest.com/

Submission

Upload the files to your personal web space on osprey.unf.edu. Create an index page at the following url:

http://www.unf.edu/~your_n_number/ip/xxx_lab4.html

On the index page, display links pointing to your solution to each question.

Submit the above link to the index page via Blackboard.

Also, attach all the files that you create in your Blackboard submission.

No points will be given if either one is missing in your Blackboard submission.