Homework #6 – Integrating with Web Services in iOS

CIS 380 – Summer 2015
Due Date: 8am, July 20, 2015

Learning Objectives

- Learn how to work with TableView controllers in iOS.
- Learn how to fetch data from web services on iOS.
- Learn how to process JSON in Swift.

Top Artists App

In this homework exercise you are to reproduce the functionality the instructor implemented in class in the Top Tracks App demonstration. However, instead of reproducing the "Top Tracks" from the Last.FM APIs, you are to fetch and display the top artists in a country of your choice. The API you will need to use is documented here: http://www.last.fm/api/show/geo.getTopArtists. Please note that you will need to signup for a free developer account on http://www.last.fm and create an API Account in order to get your own access token.
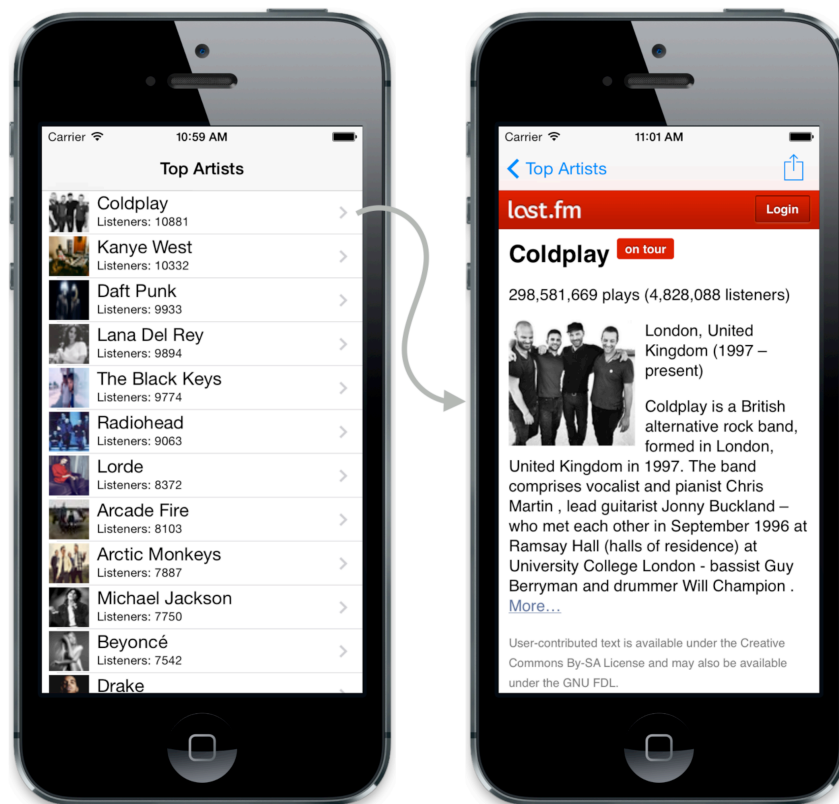

Figure 1. The Top Artists App

The app is shown in Figure 1 above. It should be implemented exactly as shown. When the user taps on a row in the table view, it should immediately display the content of the web content of the mobile web page from the last.fm website within a view controller. Your web view controller should also have a "view in safari" option as demonstrated in class. You should support image caching – feel free to reuse the code demonstrated in class. Your web view controller should support the back button as discussed, just in case a user taps on links within the web view.

In addition, your app should support portrait, landscape right, and landscape left, as well as the 3.5 inch , 4 inch, 4.7 and 5.5 inch screens.

Deliverables

To receive credit for your homework, you must:

- Provide a working demo of your app to the instructor in the classroom on the due date.
- Create a zip archive of your entire project folder and name it Lab06-TeamDD.zip where DD is replaced with your team number. Email it to the instructor (jonathan.engelsma@gvsu.edu) with the email subject set to Lab06-TeamDD. Failure to follow naming instructions correctly means your homework will not get graded and you will get a zero!