Washington State University
School of Electrical Engineering and Computer Science
Spring 2017

CptS 479 Mobile Application Development in iOS
Homework 10
Due: April 4, 2017 (11:59pm)

General Instructions: Put the entire app directory into one zip file and submit as an attachment under Content → Homework 10 for this course on the Blackboard Learn system by the above deadline. Note that you may submit multiple times, but only the most recent entry submitted before the above deadline will be graded.

For this homework you will add two capabilities to the Joker app from Homework 5: (1) use Core Data to store the jokes, and (2) allow the user to view/edit existing jokes. Your app should still have all the functionality of HW5: show randomly-selected jokes on the Main view, segue to a TableView to see the list of jokes, delete jokes by swiping left on a table row, adding a new joke by seguing to an AddJoke view, and embedding everything in a Navigation Controller. You can add on to your solution to HW5, or you can work from mine which is available at http://www.eecs.wsu.edu/~holder/courses/MAD/hw5/Joker5.zip. Specifically,

1. Create a new project using Core Data, or add Core Data to the HW5 app. Note that the HW5 app adds a few jokes at initialization. This is fine to do in your HW10 app, but it should happen only once, i.e., shouldn't add the same jokes over again each time the app is started.
2. Create a Core Data model (database schema) consisting of a single entity "Joke" with the usual four strings.
3. Add the ability to insert, delete and modify your Core Data Joke entities. The add and delete functionality should be tied to the existing Add Joke and delete joke functionality in the app.
4. Add the ability to segue to a view/edit joke view when you tap on the table row of a joke.
5. Add a new ViewEditJoke view that will be similar to the AddJoke view, but will be pre-populated with the lines from the joke selected on the table. Like the AddJoke view, this view should be embedded in the Navigation Controller, have a Cancel left bar button item, and have a Save right bar button item. Of course, saving changes should change the joke everywhere in the app and in Core Data.
6. Be sure all views have proper titles and prompts in the top navigation panel.
7. Be sure auto layout constraints are set so that all the view elements are appropriately placed in the views, regardless of device orientation.