**Topic: Into to Mobile Development**   
(Previous topic: Phone Word app walk-through)

Intro

* Look at someone’s Lab 7, ASCII Table, solution
* Questions from last week:
  + Native Code: Xamarin lets you link to native C and Objective-C libraries. See <http://developer.xamarin.com/guides/ios/advanced_topics/native_interop>
* We need to go back and look at the structure of iOS apps a little more closely. See: iOS Dev Lib: The Structure of an App
* The Master-Detail app in ch. 11 makes greater use of the AppDelegate than our previous apps, so we need to understand the role of the AppDelegate in iOS apps in general.

Master-Detail template project

* Split View Controller:
* Navigation Controller: For the master view, which is its root view controller (?)
* Navigation Controller: for the detail view, which is its root view controller (?)
* Table View Controller: For the master view.
* View Controller: For the detail view

Code in the AppDelegate

* Code in FinishedLaunching( … )
  + This method appears to be the Xamarin.iOS, UIApplicationDelegate, equivalent of didFinishLaunchingWithOptions
  + Set the navigation button.
    - The RootViewController is the SplitViewController. We get a reference to this so that we can get a reference to the (master?) NavigationViewController. This is from an array on the SplitViewController. Then we use that to set a button from the SplitViewController on the NavigationViewController.
    - This can’t be done with a segue because it has to be done dynamically on an object.
    - See what happens if you comment out this code.
  + Give the SplitViewController a reference to the AppDelegate. Whay? What is a weakDelegate?

Master View Controller

* Code from the template
  + Check to see if the device is an iPad. If it is set:
    - Don’t deselect rows each time the table is displayed (or redisplayed).
    - Set the size of the View (has no effect in iOS 8)
    - This is done in the constructor. (In XCode it’s done in awakeFromNib.)
  + Add the + button to the toolbar
    - ViewDidLoad is where this is done
  + PrepareForSegue
    - This View Controller only has one segue, but for some reason we need to check the identifier to make sure it’s the right one. Why?
    - Get a reference to the destination ViewController from the segue parameter. (This is actually done on the third line)
    - Take care of sending the data
      * Get the data from the selected row in the table.
      * Call a method that we had already added to the destination ViewController. This sets the data that we are passing.
    - Add the button for navigating back to the master view.
* Code we are adding
  + Load the president data from the plist in ViewDidLoad

Detail View Controller