

Lab 4 – Adaptive Layout Using Size Classes

CS235IM, Intermediate Mobile Application Development: iOS

Introduction

The purpose of this lab is to give you practice creating a universal app that uses size classes to adapt to multiple screen sizes and orientations. You create multiple layouts so that your UI will look good in each of the four possible size class combinations for iOS devices:

- wCompact, hCompact
- wRegular, hCompact
- wCompact, hRegular
- wRegular, hRegular

Requirements

Choose one of the apps you made in the previous two labs (Calculator, Tic-tac-toe, Tip Calculator, etc.) and modify the layout of the UI so that it has a pleasing appearance on all device sizes in both portrait and landscape orientations. This means that it will adapt to all four size class combinations. You can do this without creating four different layouts by using wAny and/or hAny in appropriate places. Where you use wAny or hAny will depend on how you design your layouts. Here are the specific requirements for this lab assignment:

- The UI should adapt to devices and orientations represented by all four class sizes.
- You should use at two layouts: a base layout for wAny, hAny, and at least one additional one.
- When changing class sizes you should have at least:
 - One control that changes size
 - One control that changes location
 - One constraint that is uninstalled and another installed (you will probably need a lot more than one!)

Submission

- Zip the solution folder and upload it (without the bin and obj folders).
- Put the screen shots of the app running with each of the four screen sizes in a document, label each screen shot, and upload the document.
- Upload copies of the code review you gave and the one you got (with the second column completed).