

PROJECT #5

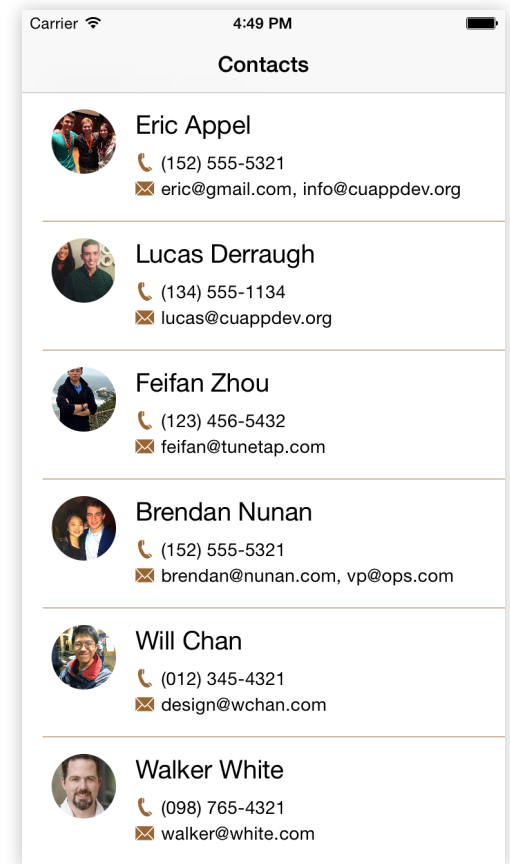
The Problem

This week's project is a continuation of what we started in lecture. Your goal is to create a UITableView (tied to a UITableViewController or by using the ViewController as your dataSource) with custom cells that you can display contacts pulled from the web. The link for the JSON data to pull is in the "Reference" section of this document. You have creative freedom to design the cells in whatever way you want, but you are required to create a custom cell with an image, name, phone number and email.

We also need the ability to edit the contacts in this list. We should be able to change the name, phone number and email of the selected contact. This can be done by using a detail view as we demonstrated in Projects 3 & 4. You'll also want to change Person to be a class instead of a struct, because structs are copied.

Challenge Problems

1. Add the ability for the user to swipe to the left on any contact to delete him/her.
2. In the detail view, we can add multiple email addresses. Think of a clever way we can display multiple emails if we have them and then how we can add or remove them.
3. A major issue with our design is that our application will end up waiting until the data has been downloaded from the web before any other action can be taken. Design a way to load the data in the background and then load the data in as it is parsed. If you want to test this effect you can download Apple's Xcode Hardware Tools which includes the Network Link Conditioner tool. It allows you to slow down your connection for testing purposes. (This isn't many lines of code, but tricky)
4. Create your own JSON file to load into the table! You can copy the file that we have from our repo (<https://github.com/cuappdev/trainingProgramResources>) but you need to host this on your own repository. Create your own GitHub account if you haven't already and load in your file instead of the one we provided you in lecture.



Reference

The link to the data: <https://raw.githubusercontent.com/cuappdev/trainingProgramResources/master/Lecture5JSON.json>

Network Link Conditioner: <https://developer.apple.com/downloads> (search for “Hardware IO Tools”)

- Lesson #5 source code
- UITableViewController Class Reference
- UIRefreshControl Class Reference
- The Swift Programming Language