

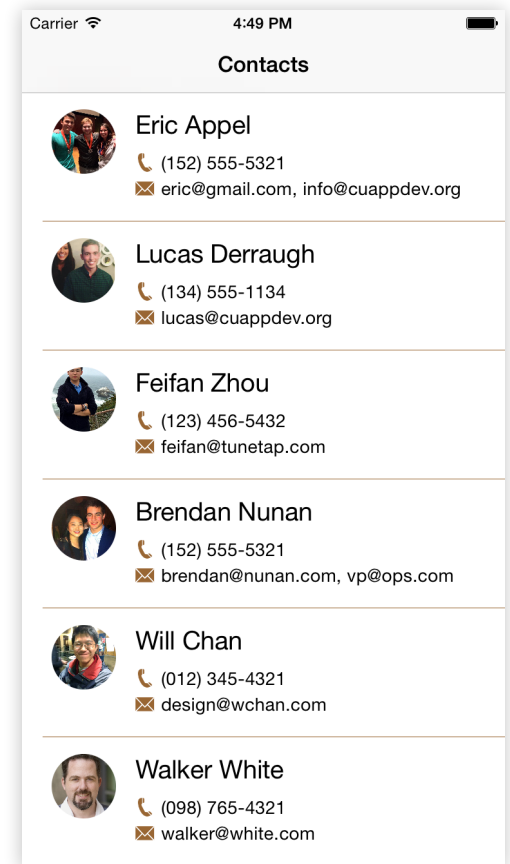
# PROJECT #5

## 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) 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.

## Challenge Problems

1. Add the ability for the user to swipe to the left on any contact to delete him/her.
2. When we pull down on our tableview, we should refresh the contents and download a new set of data from our JSON file. You can either replace your current content or add what you pull to the array.
3. Whenever we select one of these contacts, we want a larger representation of that contact. This means we should see a larger image for example.
4. We also need the ability to edit the contacts in this list. So we should be able to change the name, phone number and email of the selected contact.
5. 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)



## 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