

IOS APPS IN ACTION

CS 496 - SPRING 2014

Overview

- * Make an app
 - * Display data from a web service
 - * Use bluetooth for location

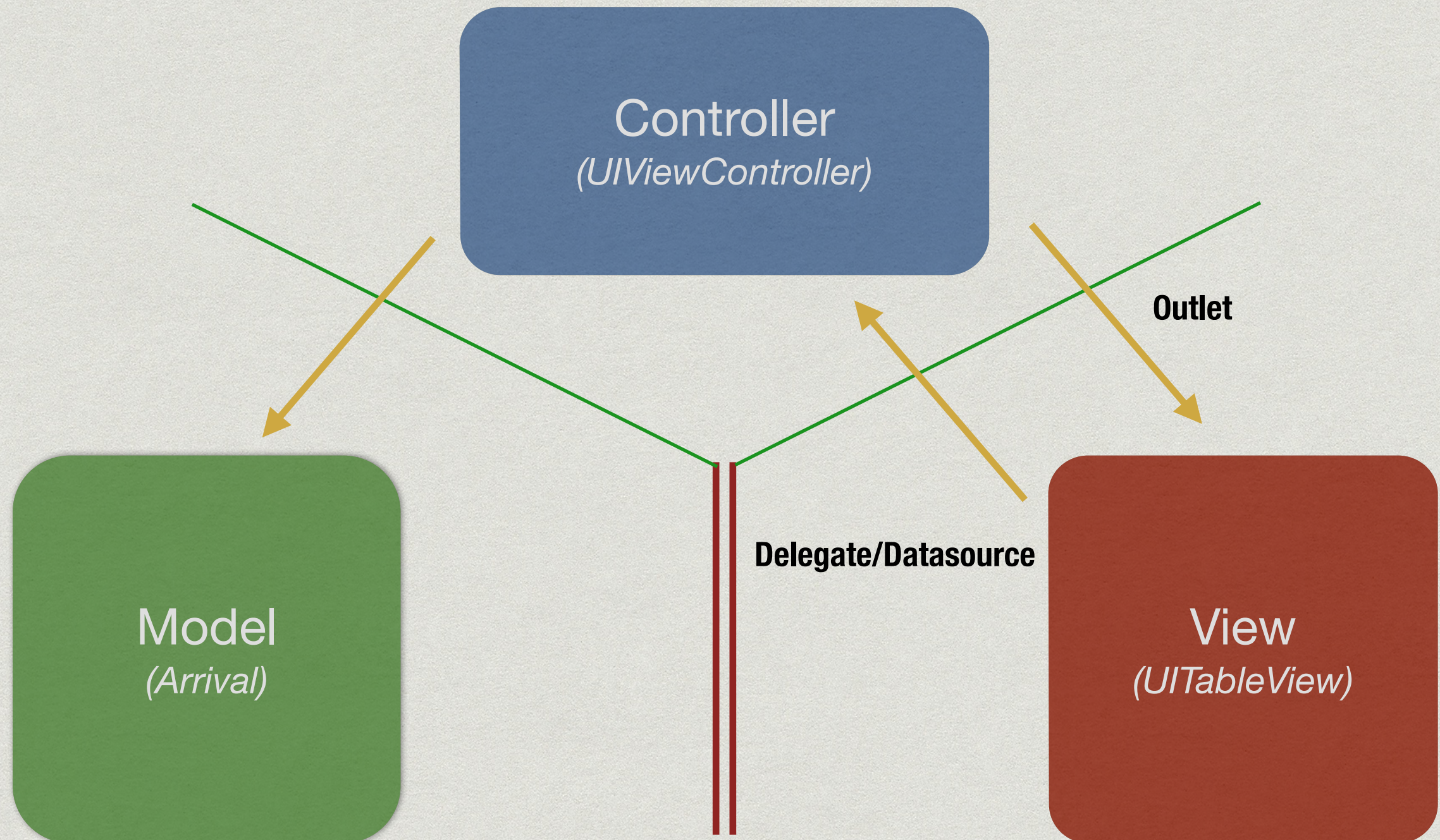
Bus Arrivals

- * Show me the next arrivals when I am at a bus stop
- * Bus API
 - * <http://www.corvallis-bus.appspot.com/arrivals?stops=12449>
 - * Docs: <https://github.com/OSU-App-Club/corvallis-bus-server>

iBeacon

- * Low-power Bluetooth: aimed at use for location
- * Apple APIs came out in iOS 7
- * Identifiers: UDID, Major, Minor
- * Proximity: Far, Near, Immediate
- * Class Name: CLBeacon

Model View Controller



Classes we will see

- * UIViewController
- * UITableView
- * NSURLSession (Perform HTTP Request)
- * NSJSONSerialization (Convert JSON into Foundation types)
- * Arrival (Custom data model)
- * CoreLocationManager (Manage iBeacons)
- * CLBeacon (Bluetooth beacon)

DEMO

Summary

- * Native only
 - * Similarities to Titanium (next week)
- * Surprisingly easy
- * Security of iBeacon — duplicates
- * Other alternatives (GPS)