

Introduction

- Team
 - James Wiegand (Team Lead)
 - Christopher Jensen
 - Joshua Kinkade
 - Brian Vogel

- Client
 - June Knight L-3 Communications
 - Dr. Jeff McGough

Topics

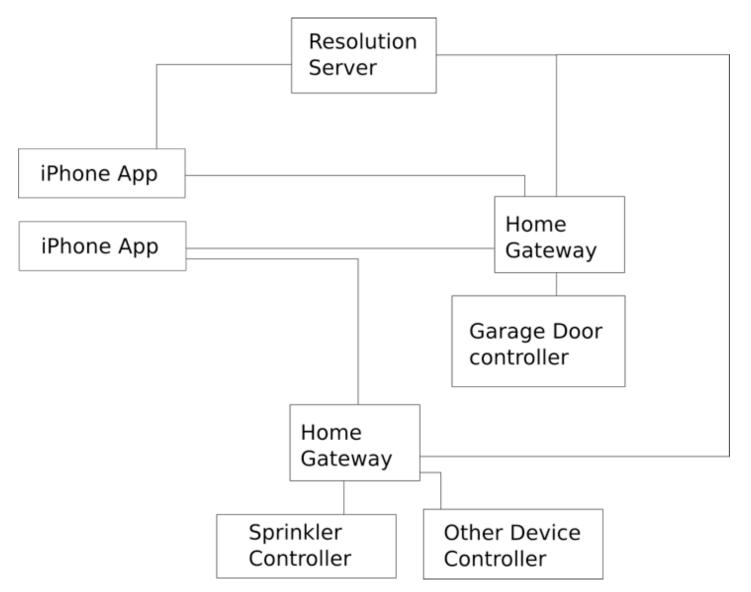
- Project overview
- What we've done
- Where we're going
- Prototype demos

Problem

- Smart Phone Controlled Home
 - Smart Phone Controlled Garage Door Opener
 - Smart Phone Controlled Sprinkler System

 Create a custom smartphone app, that is able to control a household device, such as lights, garage door, sprinkler system, etc.

Project Overview



- Developed UI Prototype
- Communication Protocol
 - iOS <--> Resolution Server
- Taught iOS to Josh and Jordan
- Low Level Networking in iOS
- Research Hardware
 - Suppliers/Supplies

- Got Hardware
 - Experiments
- Taught iOS
- Garage Door UI Prototype

- Resolution Server Started
- iPhone 1st run prototype
- Draft 1 of Base Station --> Resolution Server
 Communications Protocol

- Top level Framework
 - Communication Protocol BS <-->iOS
 - TLS
 - Navigation Controller
 - Remove/Update

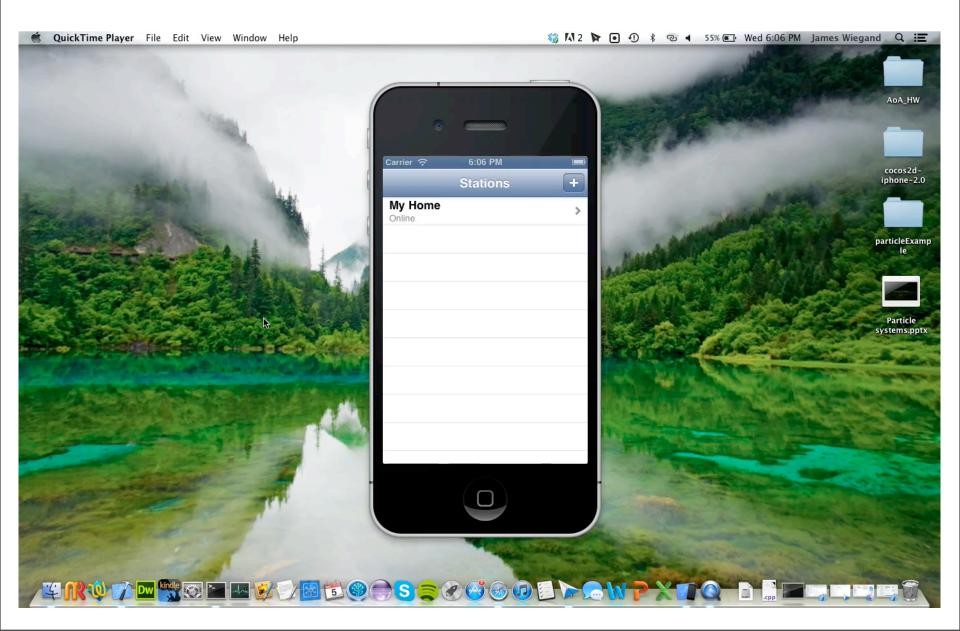
Next Semester

- Garage View Controller
 - Communication Protocol
 - iOS <-> Garage Door
- Base Station Software
 - Base Station <-> iOS
 - Web Interface
- Hardware Implementaion
 - Garage Door
 - Sprinkler System

Prototype 1 (Sprint 1)

- UI prototype
 - Main screen
 - Add Base Station
 - Changed Device ID to MAC
 - Devices
 - Errors

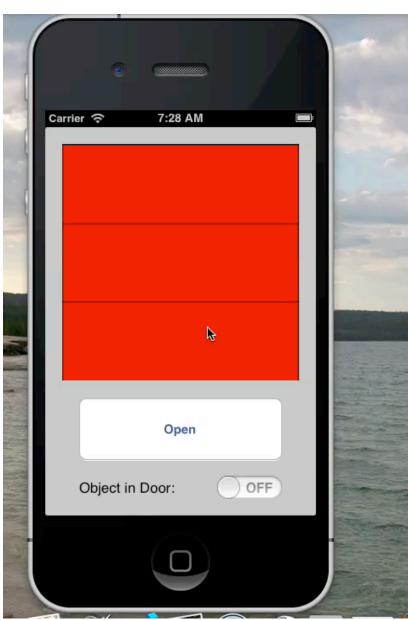
Prototype 1



Prototype 2 (Sprint 2)

- Animated picture of a garage door
- Button to open and close door
- swipe up on garage door to open, down to close
- alert if somethings prevents it from closing

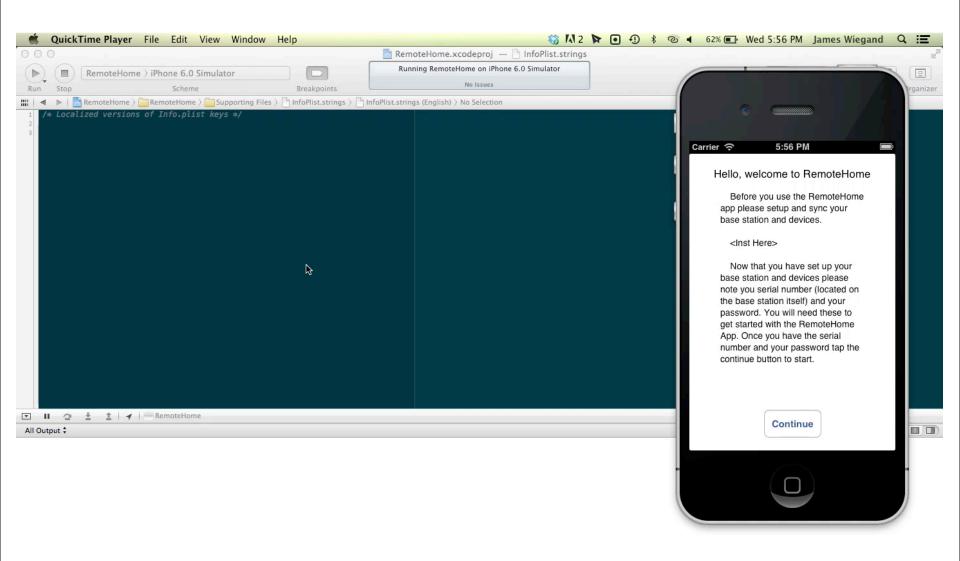
Prototype 2



Prototype 3 (Sprint 3)

- First run prototype
- Using Hercules to simulate resolution server
- Errors for bad input
- Error for device not found
- Successfully register 2 devices
 - SQLite output on console
- Error for bad connection

Prototype 3



Questions?