LOCK MANAGEMENT SYSTEM

WiFi

Cloud Datastore

Compute Engine

WiFi

Output Indicator (Door Status)

Administrative Website

WiFi

WiFi

GPIO

NFC Sensor

SPI

TI CC3220S Microcontroller

NFC

PWM

DC Power

Android App

Motor

2 AA Batteries

——	Electrical Power
——	Wireless Data Line
——	Physical Data Line

Weekly Progress

Sam

- Microcontroller can go into Low Power Mode with GPIO interrupt wakeup
- Wrote new functions for PN532 library
  - Sensor can go into low power mode
  - Generates interrupt in presence of active RF field

Bowen

- Started Android APP
  - HTTP calls datastore
  - NFC mode (HCE or P2P)
- Working on server resetting capacity & automatic logout

Challenges

- Finding the correct protocols for nfc sensor and phone
- Http calls to datastore
- Program restarts from beginning when wake up from low power mode