



HOME ASSISTANT SYSTEM PROPOSALS

RELEASE 1.0

TRI NGUYEN & SEBASTIAN

APRIL 2017

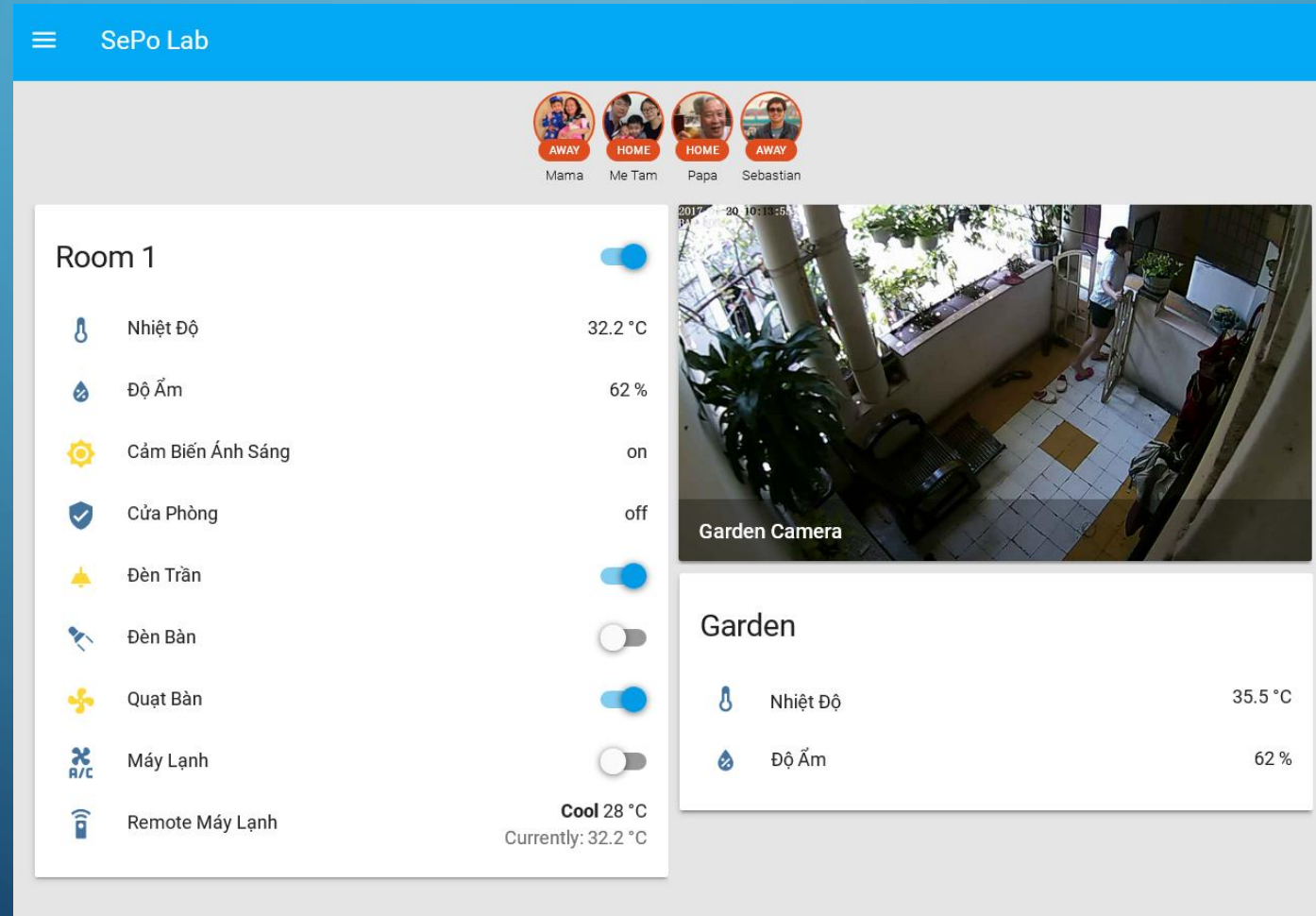
INTRODUCTION

- Started on April 2016 based on Smart Projects Trends.
- Completed Solution.
- No need to change current electric devices; just add small boxes to “convert”.
- Develop on Open Source Framework.

WHAT HOME ASSISTANT CAN DO ?

- Query Environment indexes.
- Track Security of place.
- Control electric facilities.
- Power saving.
- Automate devices working under schemes.
- Give Actionable notification to Portable Devices.

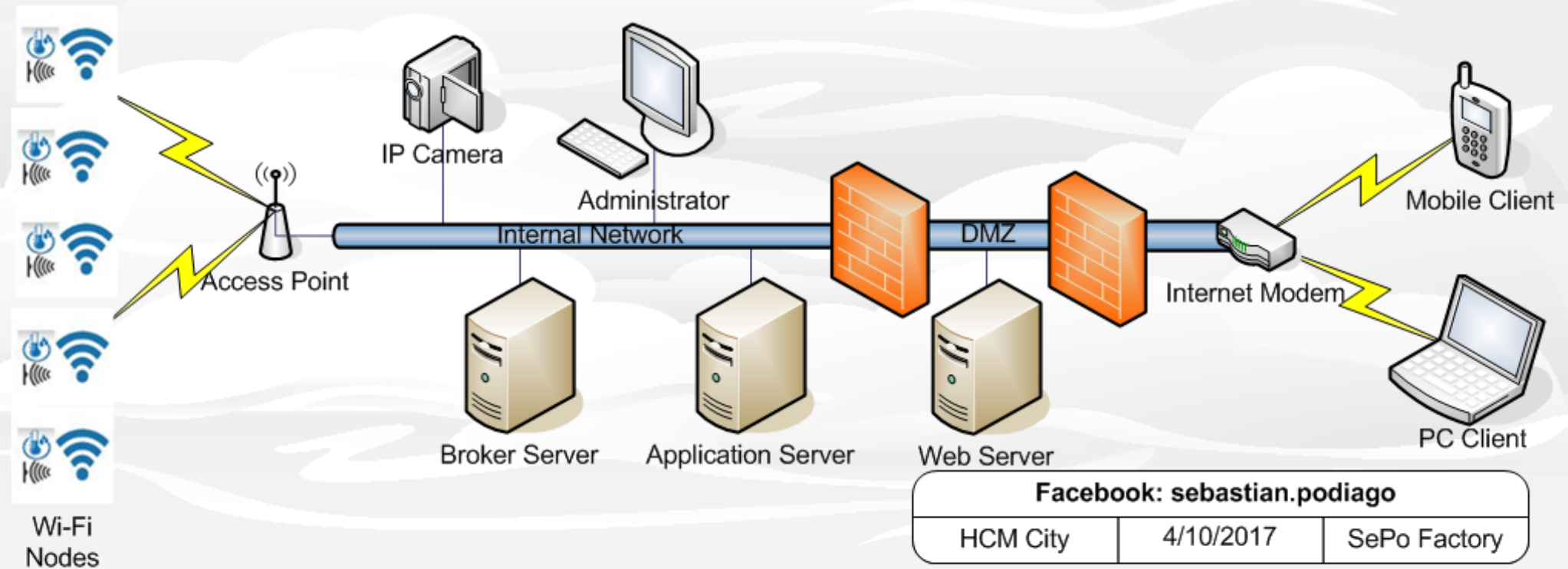
WHAT HOME ASSISTANT LOOK LIKE ?



WHAT HOME ASSISTANT STRUCTURE ?

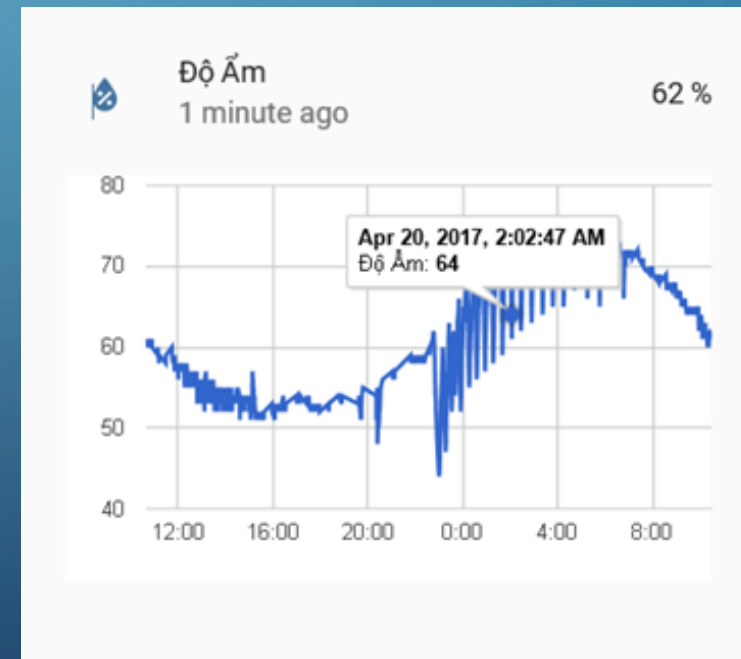
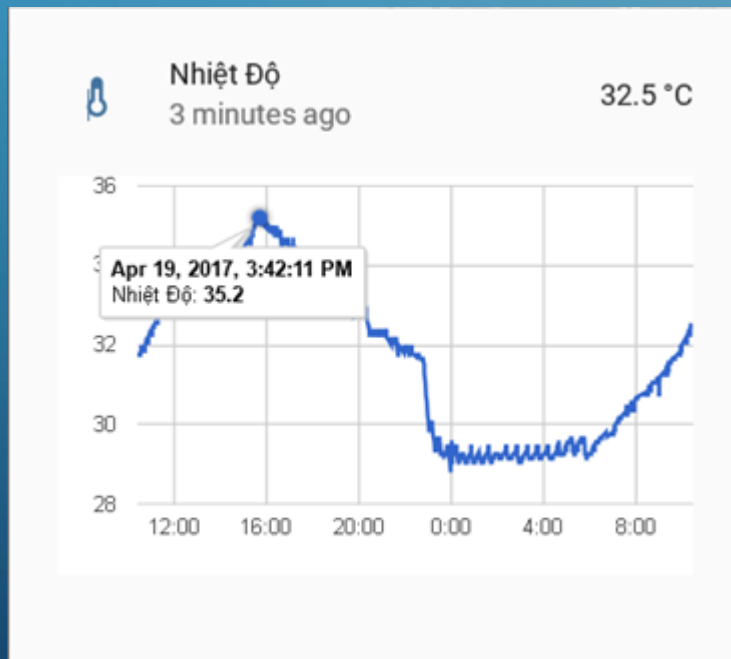
Home Assistant System Diagram V.1

Monday, April 10, 2017



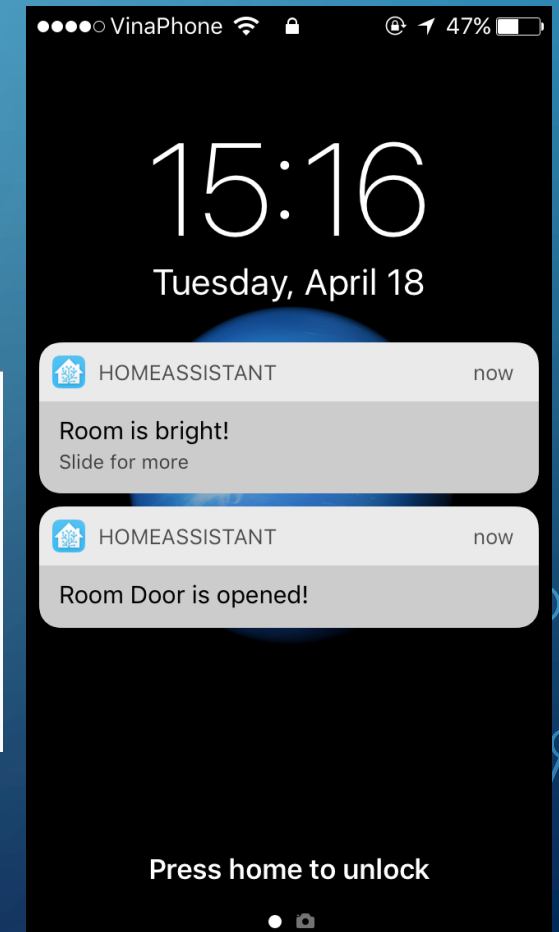
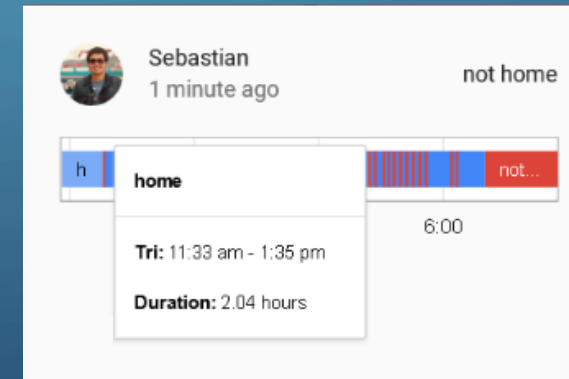
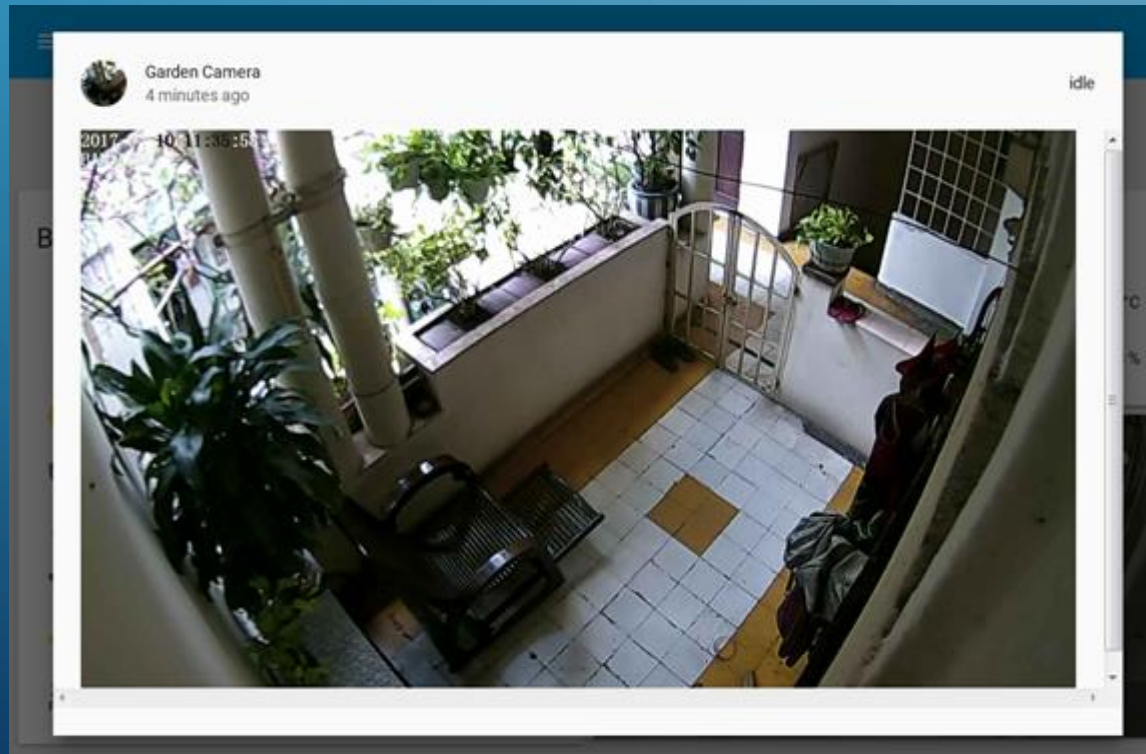
QUERY ENVIRONMENT INDEXES

- Tracking 24/7 for Temperature and Humidity of rooms, and every sensors
- Pop-up report for 24 hours.



TRACK SECURITY OF PLACE

- Tracking 24/7 for Security nodes: Doors/Windows; Gas/Smokes; Human Detect; IP Camera; etc.
- Alarm to users if any changing via push Notification to Phone.



CONTROL ELECTRIC FACILITIES

- Control simple devices as ON/OFF Switches in dashboard and in pop-up
- Control IR supported devices via new 360IRControlWiFiNode.

Room 1

Nhiệt Độ 32.2 °C

Độ Ẩm 62 %

Cảm Biến Ánh Sáng on

Cửa Phòng off

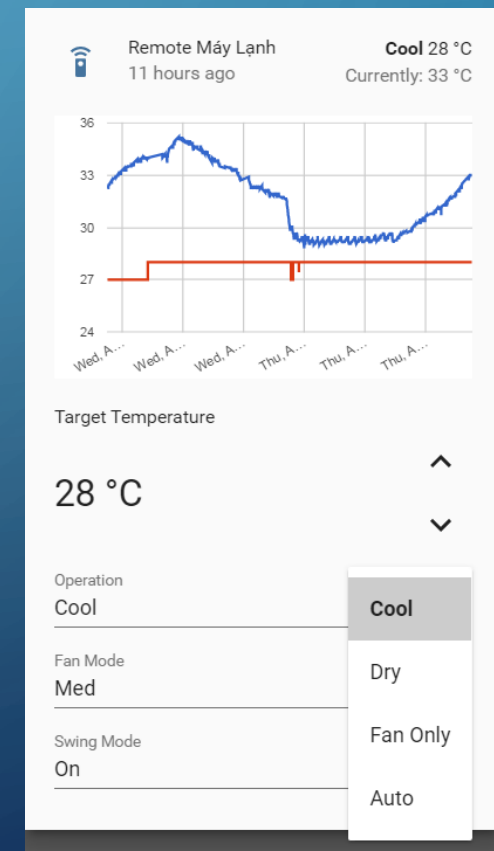
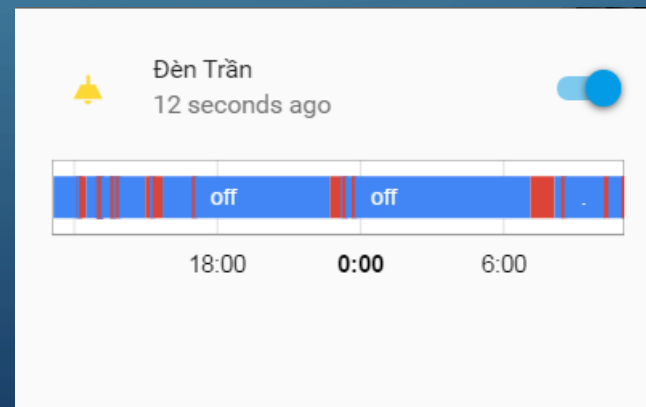
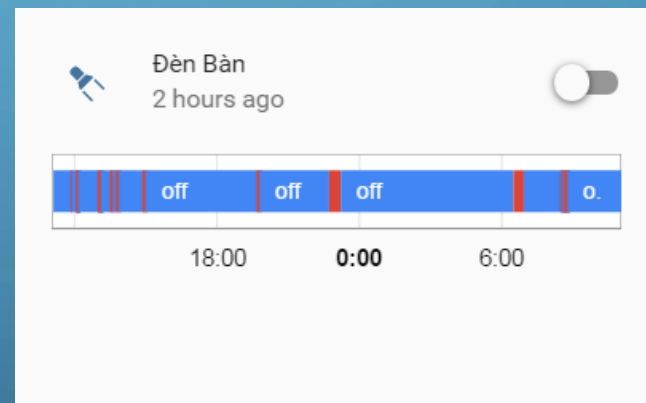
Đèn Trần on

Đèn Bàn off

Quạt Bàn on

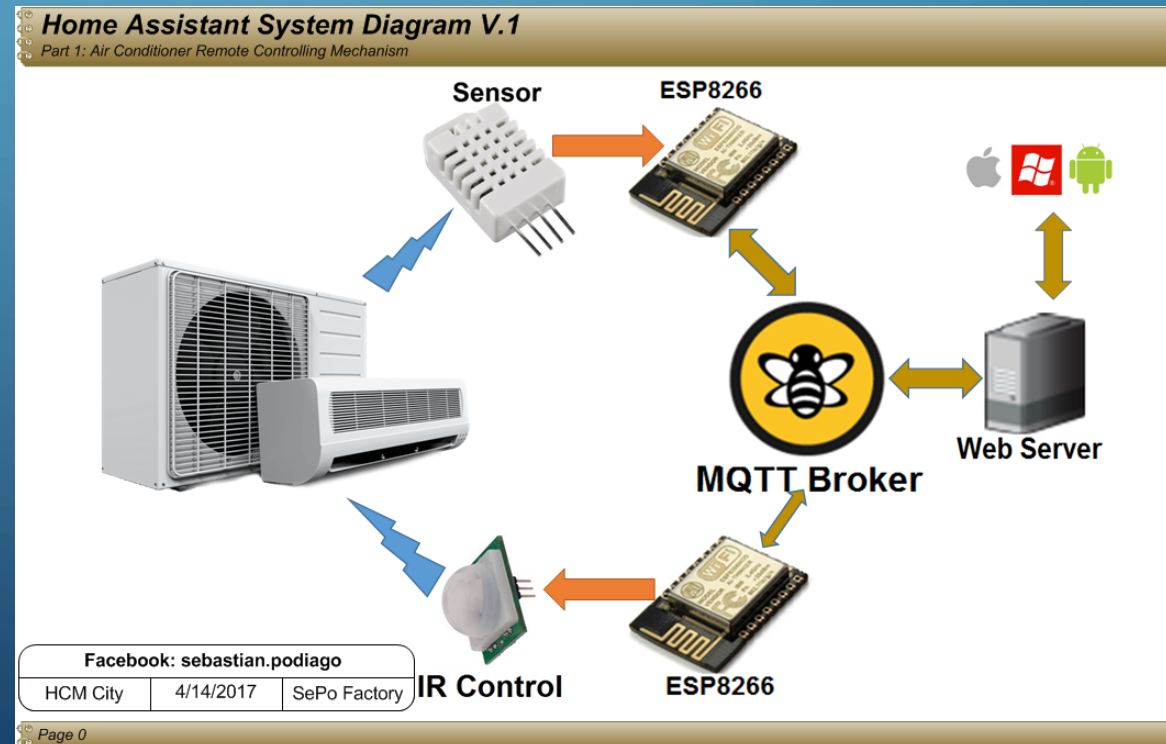
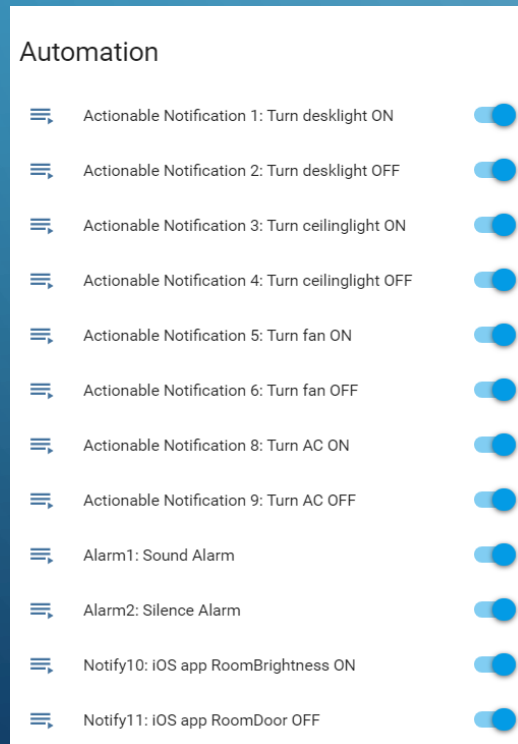
Máy Lạnh off

Remote Máy Lạnh Cool 28 °C
Currently: 32.2 °C



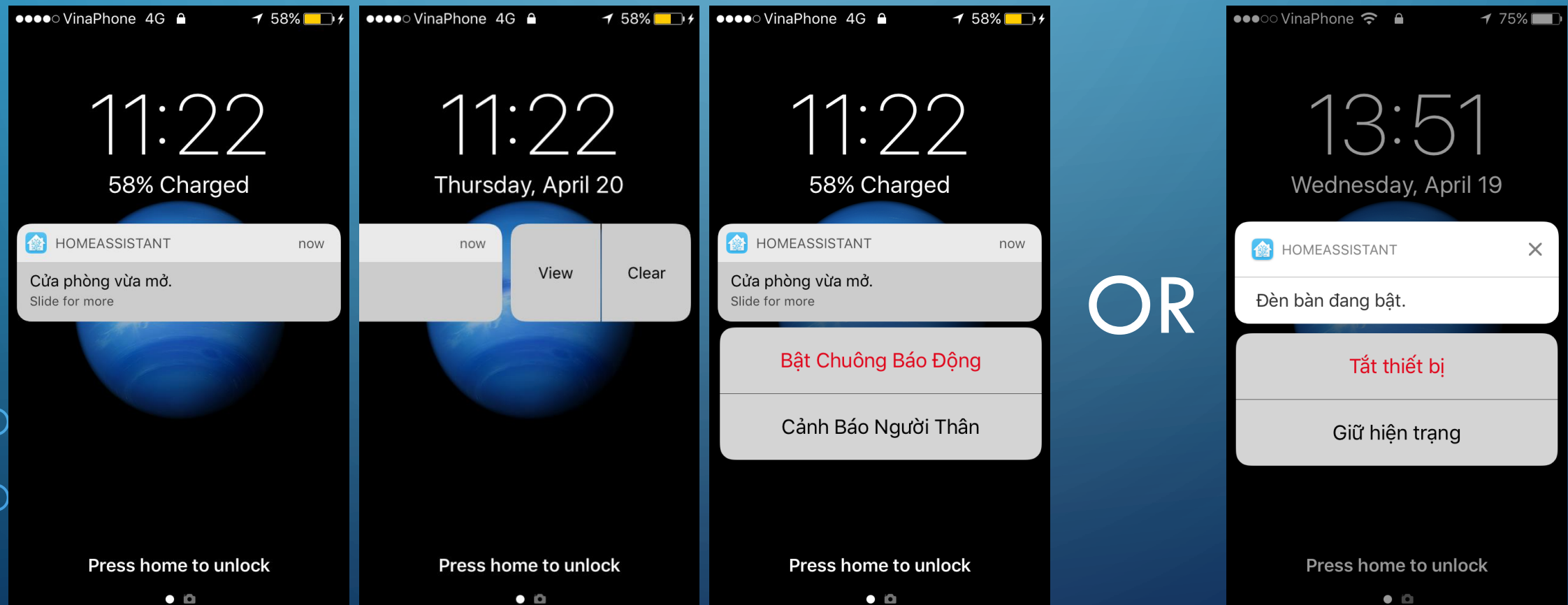
AUTOMATE DEVICES UNDER SCHEMES

- Easy turn ON/OFF Automation schemes on dashboard.
- Many coded schemes are already existing and have virtual diagram like.
- Schemes be in flow: **See** “Trigger” + **Adapt** “Condition” then **Give** “Action”


















ACTIONABLE NOTIFICATION

- Quick response to Alarm everywhere on smart phones
- Give command even on Locked Screen, no need launch Mobile Application.



HARDWARE DEVICES

- Project's devices with language: “Behind the Walls”
- Can works with 3rd Smart Hardware's likes:

 Alexa / Amazon Echo voice	 Apple TV media-player	 Arduino diy	 Belkin WeMo hub	 Nest hub
 Dark Sky weather	 Owntracks presence-detection	 Philips Hue light	 Plex media-player	 Sonos media-player
 Kodi media-player	 Google Cast media-player	 ecobee hub	 IFTTT automation	 Digital Ocean hub

BASED TECHNOLOGIES

- Most popular Wireless Technologies and IoT frameworks
- Adaptable every home and office.



hub



hub



hub



Z-Wave

hub



Pushbullet

notifications



MQTT

hub

CONTRIBUTIONS

Appreciation to:



Home Assistant



SePo Lab

SePo Laboratory