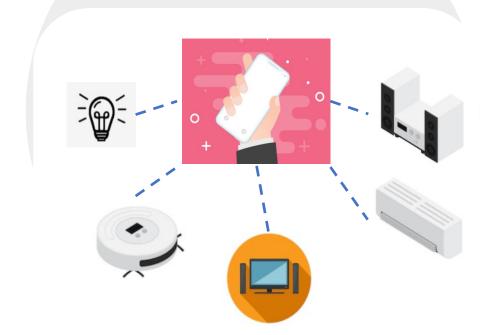
Smart Remote Control



Connect home appliances with single app

CONTENTS

PART 1 PART 2 PART 3 PART 4

1. Overview 2. Goals & Methods 3. Team & Strategy 4. Plan & Effect

PART 1 Overview

- 1 Problem
- 2 Goal

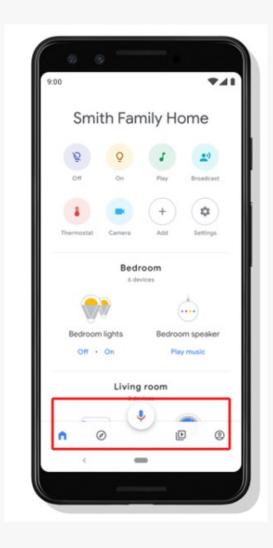
Overview Problem 1





Apple homes and google home are two major smart home applications in the market.

Overview Problem 1

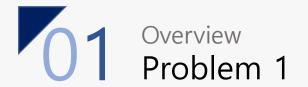




Apple homes and google home are two major smart home applications in the market.



There are various devices that each apps support. But there are not much devices that is supported by both apps





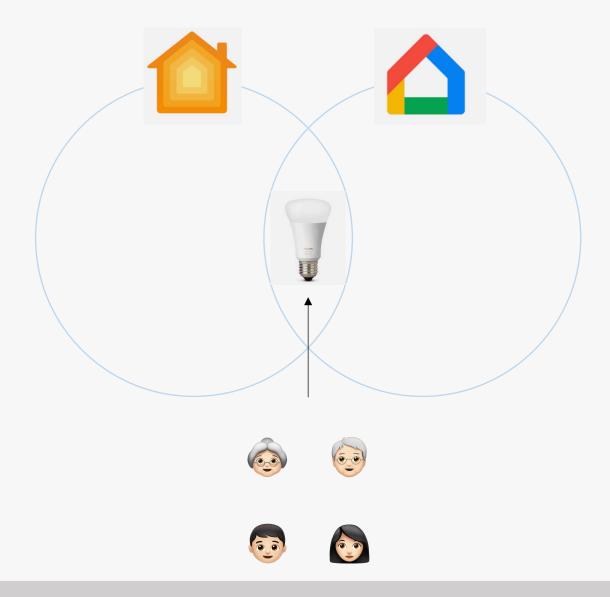






Family who have mixed use of Android phones and iPhones get limited choices.

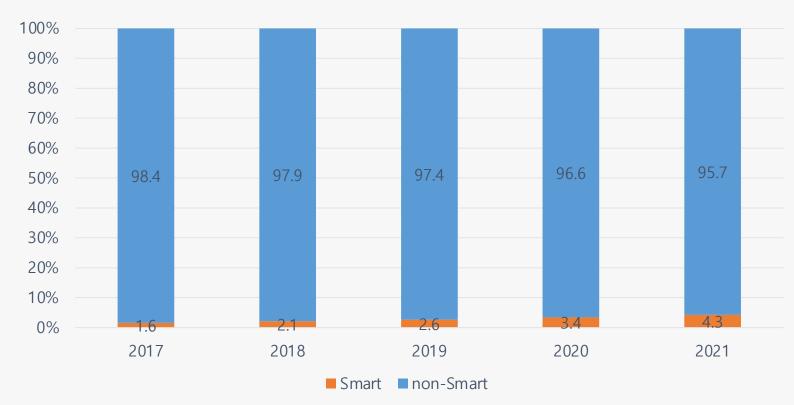
Overview Problem 1



Family who have mixed use of Android phones and iPhones get limited choices.

Overview Problem 2

Smart/Non-smart Penetration Rate

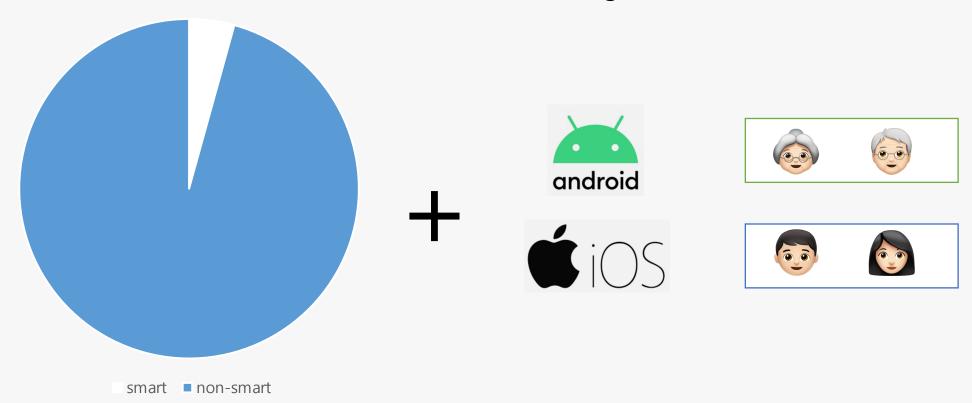


Smart home appliances market share is still very low. Most of the households use regular home appliances.

Overview Goal

Using non-Smart home appliances

Using both Android/iPhone



Our product target families who 1) use regular home appliances and 2) have both Android and iPhones

PART 2 Goals & Methods

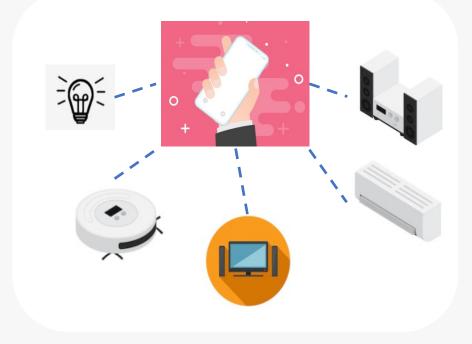
- 1 Goals
- 2 Methods
 - 1 System Flow
 - 2 Development tools

O2 Goals & Methods Goals



Macro & Combination

Smart Remote Control



Use multiple products with smart phone



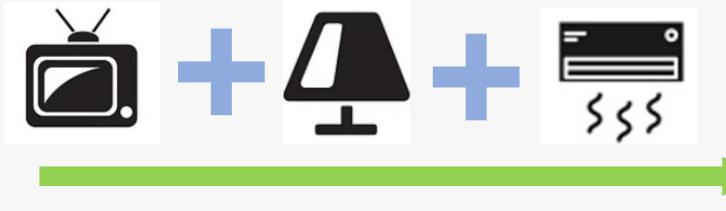
Reinforcement Learning



Macro & Combination 99





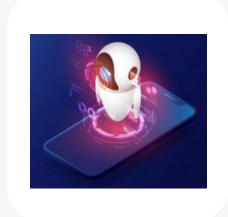


Macro 1

Save sequence

Save your control actions as a single button!

Reinforcement Learning



The app learns the user's behaviors and recommends control in a specific environment.

Users usually turn off the lights at 12pm.

Will you turn off the light?

Click Here!

12:00 PM

Recommends the common behavior of the users who installed the app.

Extremely humid weather-> Most user control air conditioner

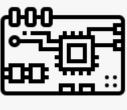
Will you turn on the airconditioner?



O2Goals & Methods Methods – System Flow





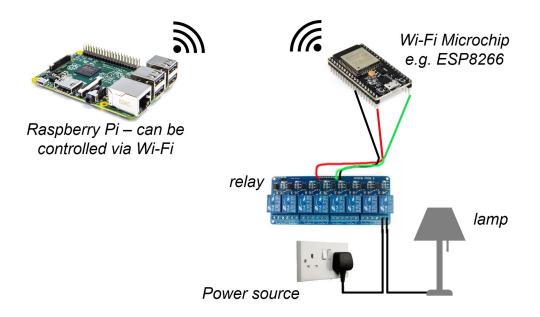


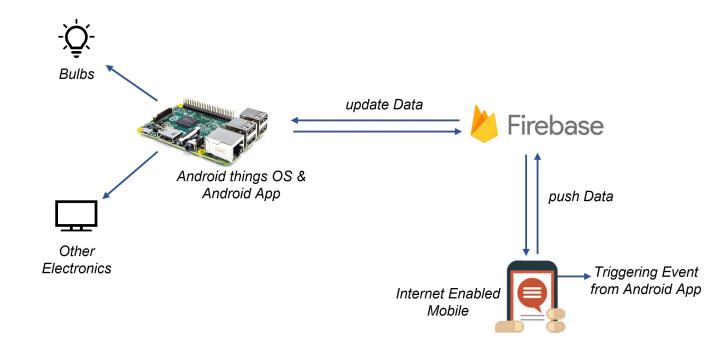




2 Goals & Methods Methods – System Flow

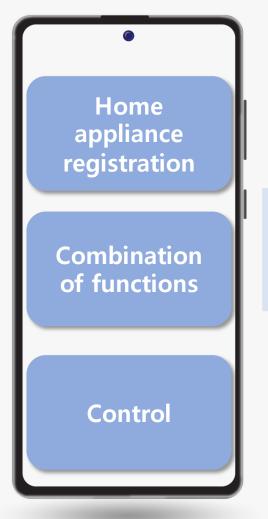
communication via Wi-Fi

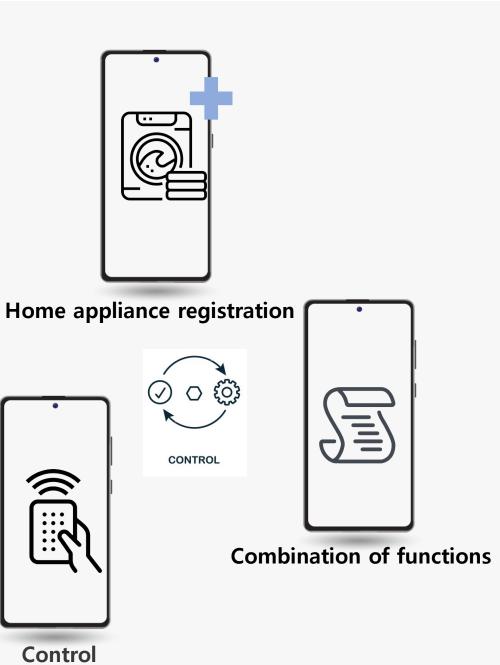




O2Goals & Methods Methods – System Flow







UI/UX design

Design prototyping







Figma

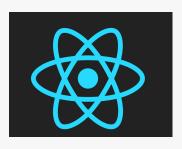
Design component



Application







React Native

Server

Server



Node.js

DB



Mongo DB

Tools



Github Open source

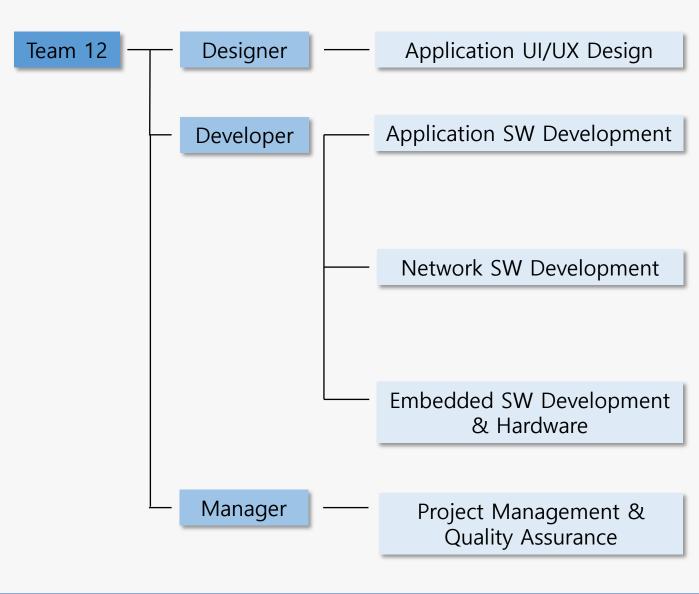


Raspberry Pi

PART 3 Team & Development plan

- Organizational Chart
- 2 Development Process
- 3 Development Schedule

Team & Development Plan Organizational chart



• 금상인

UI/UX Designer Design our application Enhance user experience

• 이대희

Mobile Application Developer Overall app development

• 전종문

Enable communication between the target HW and our app

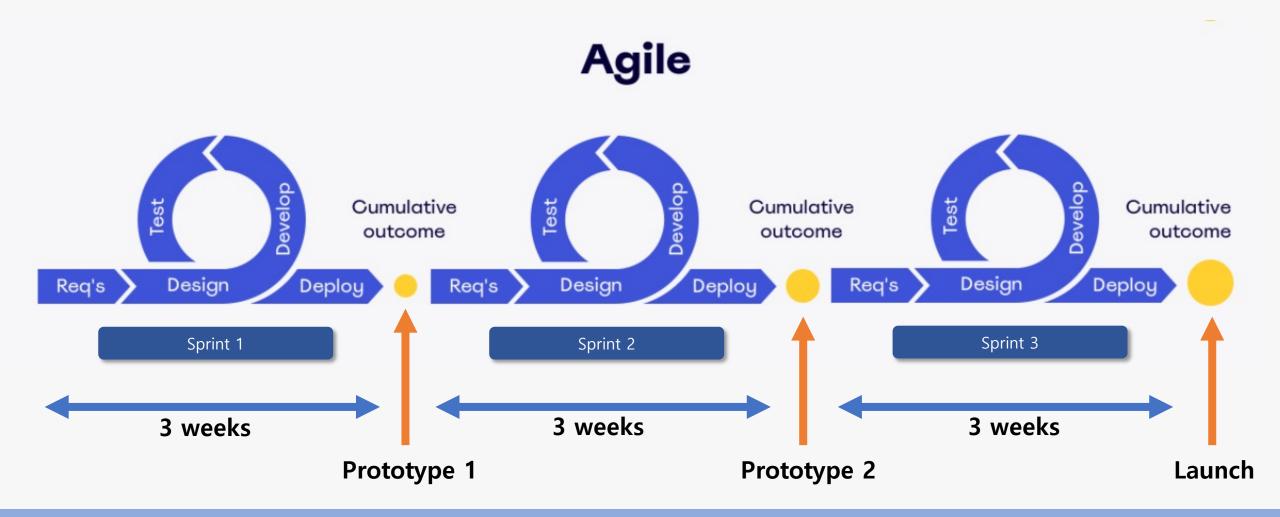
Stefan

Design and build hardware using Raspberry Pi Develop SW for the HW

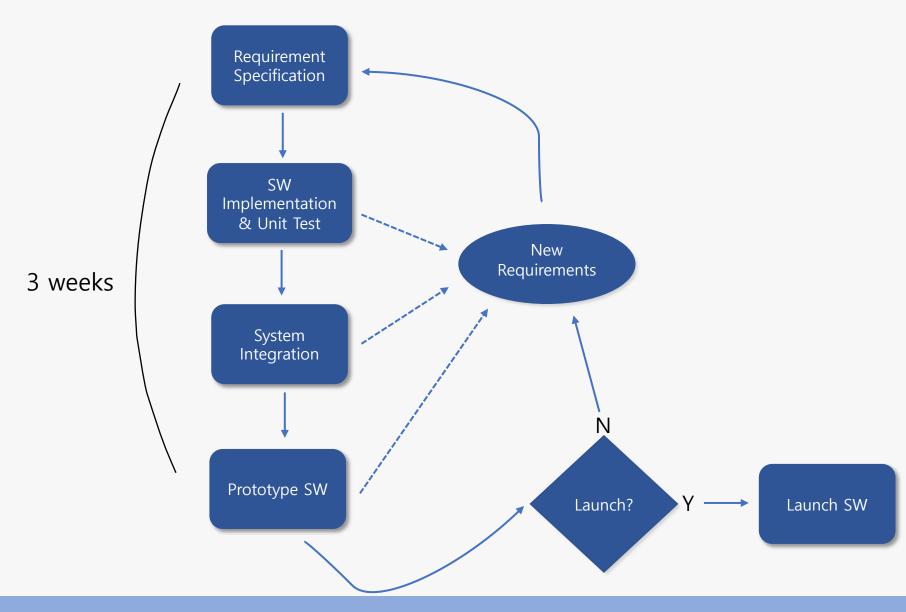
• 조윤근

Test functionalities & performance of each component

Integrate components and test the whole system Make new requirements based on the results



Team & Development Plan Development Process



Team & Development Plan Development Schedule

Contents	Time Line									
	4/5 ~4/11	4/12 ~ 4/18	4/19 ~ 4/25	4/26 ~ 5/2	5/3 ~ 5/9	5/10 ~ 5/16	5/17 ~ 5/23	5/24 ~ 5/30	5/31 ~ 6/6	6/7 ~ 6/13
Requirement Specification										
UX / UI Design										
Implement - Component										
Implement - Integration										
Making a test plan										
Code Review										
Testing										

PART 4 Uses & Expected Effects

- 1 Uses
- 2 Expected Effects

Uses & Expected Effects Uses



- You can add connectivity to your applian ces in your house.
- Connected appliances can communicate with your mobile phone.



- Set timers for your appliances using the application.
- When the time is up, appliances are automatically turned on or off.



 You can use your mobile app to control y our appliances.



Can be applied to many kinds of applian ces.

Uses & Expected Effects Expected Effects



• You can conveniently use your app to turn on or off connected appliances and set timer s for them wherever you are.



Remote controlling system will save your time because you don't need to physically control connected appliances.

Thank you

