

SMART DOOR

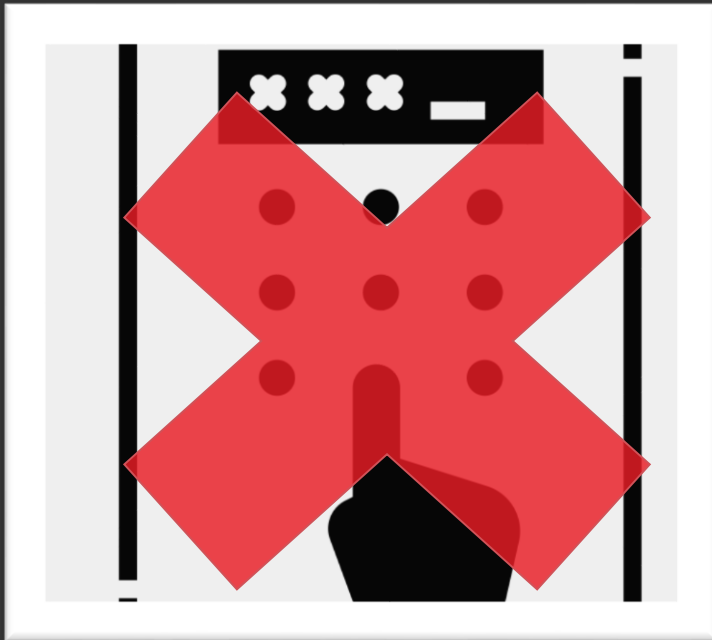
컴퓨터공학과 신은섭 이규태

OVER VIEW



Goal

- NO Password, Just Open, Only Approved



Requirement

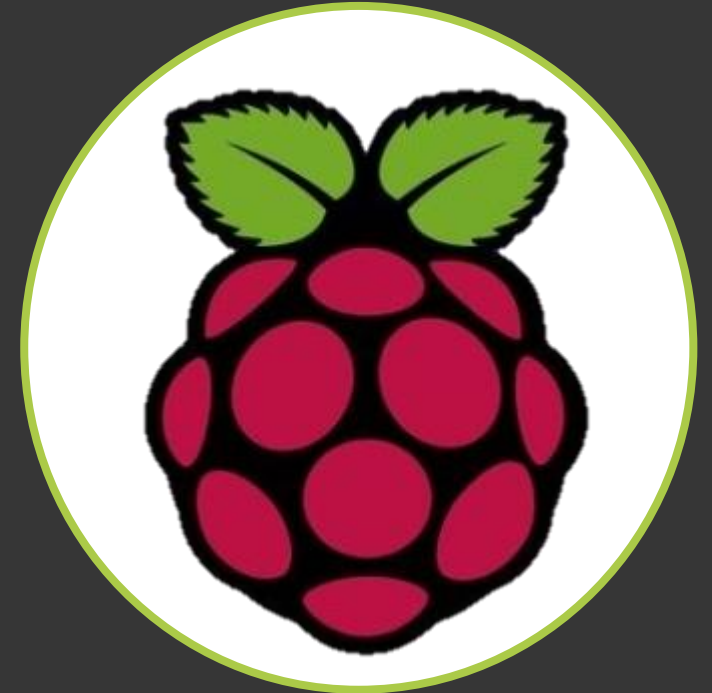
User Controller



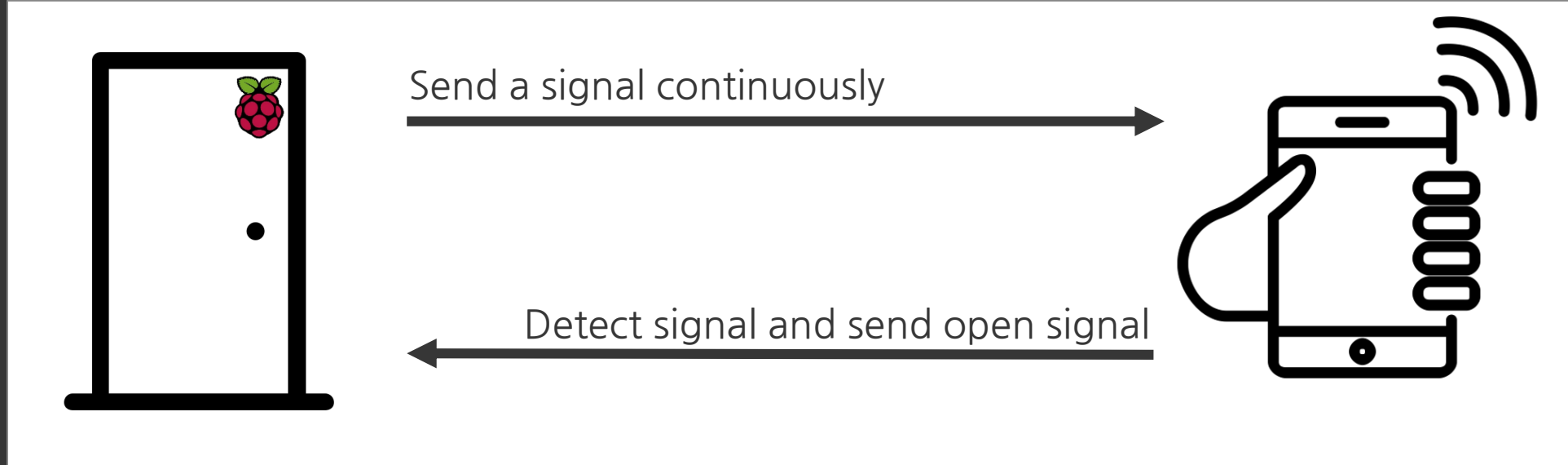
Communication



IOT Controller



Approach

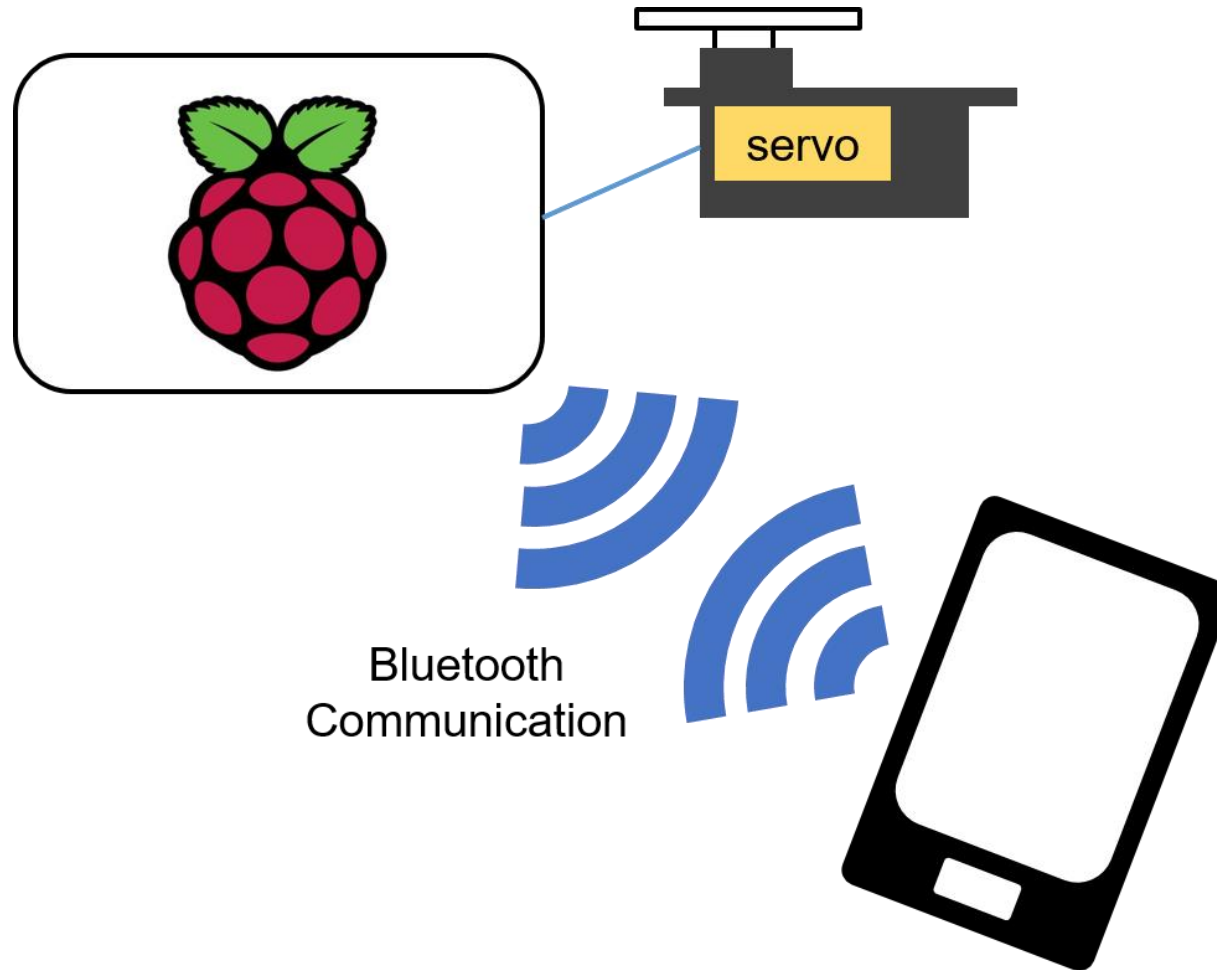


- 문에 부착된 장치가 블루투스 비콘 신호를 지속적으로 보냄
- 어플리케이션이 신호를 감지 후 열림 신호를 전송함
- 장치가 등록된 사용자인지 확인 후 문이 열림

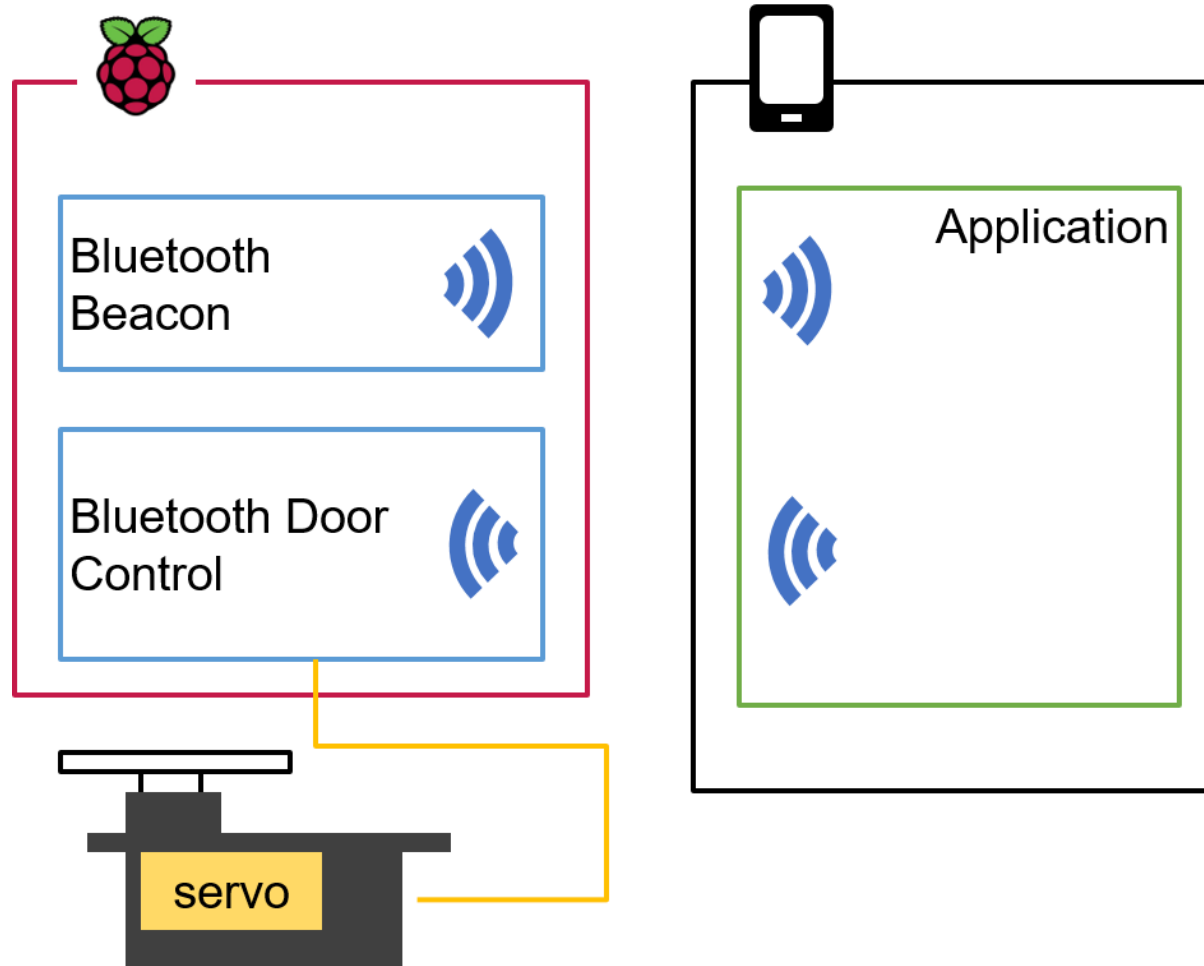
Development Environment

Content	Detail
IOT Board	Raspberry pi 3 b
IOT OS	Raspbian Stretch
Android OS	Android 8.0.0
Development Language	Python
IDE	VS code

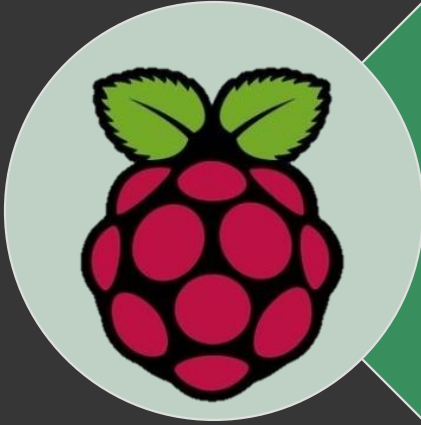
Architecture



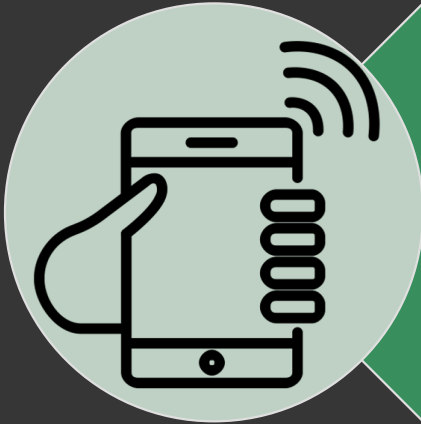
Architecture



Basic Spec



1. Bluetooth Beacon
2. Control Servo Motor
3. Receive 'Open' message and open door



Scan Bluetooth beacon and Sent 'Open' message

Current Status



프로젝트 설계

안드로이드
스튜디오 설치

서보모터 구동법
및 블루투스 연
결법 조사

Division & Assignment of Work

항목	담당자
Bluetooth Beacon	이규태
Control Servo Moter	신은섭
Receive 'Open' message and open door	신은섭
Scan Bluetooth beacon and Send Open Message	이규태

Schedule

내용	9월			10월				11월				12월	
	2	3	4	1	2	3	4	1	2	3	4	1	2
Bluetooth Beacon													
Control Servo Motor													
Receive 'Open' message and open door													
Scan Bluetooth beacon and Sent Open Message													
버그 수정 및 데모 테스트													

Q&A