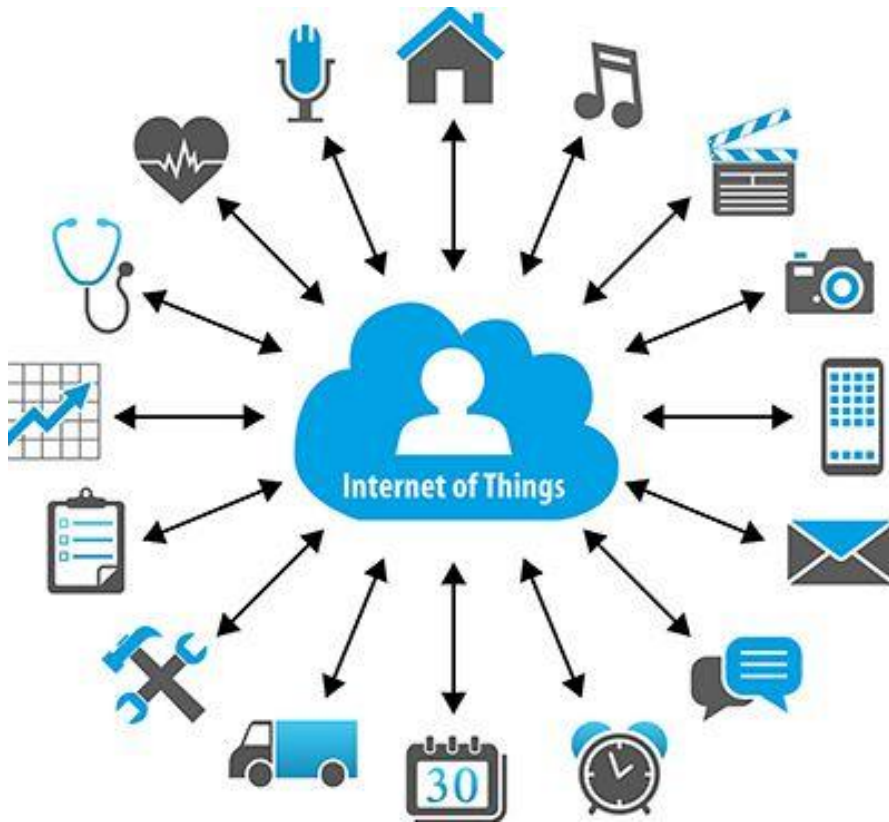


Mini Project

- Smart Home -

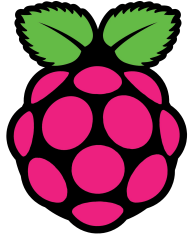
권민제 임성결 남영광

Subject (주제)

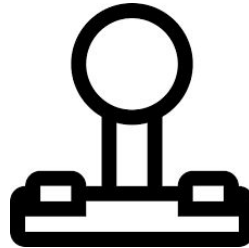


IoT - Internet of Things
(사물인터넷)

Use



RaspberryPi



Part (역할 구성)

권민제 - Movement (동작)



임성결 - Communication (통신)

남영광 - Input System (인식)

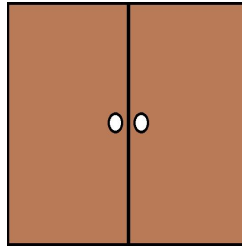
Movement



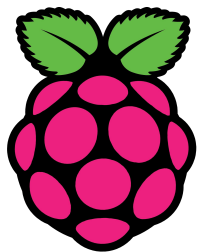
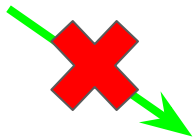
Warning

Door Open

Bell



Analog

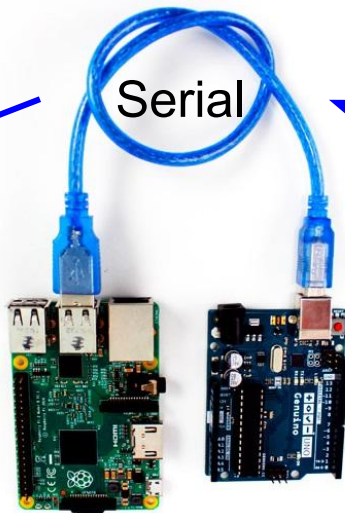


RaspberryPi

PWM



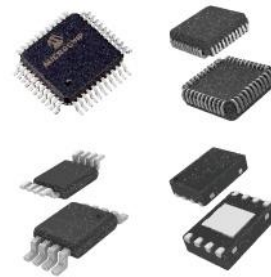
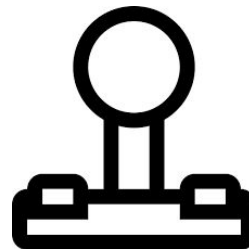
Serial



Digital

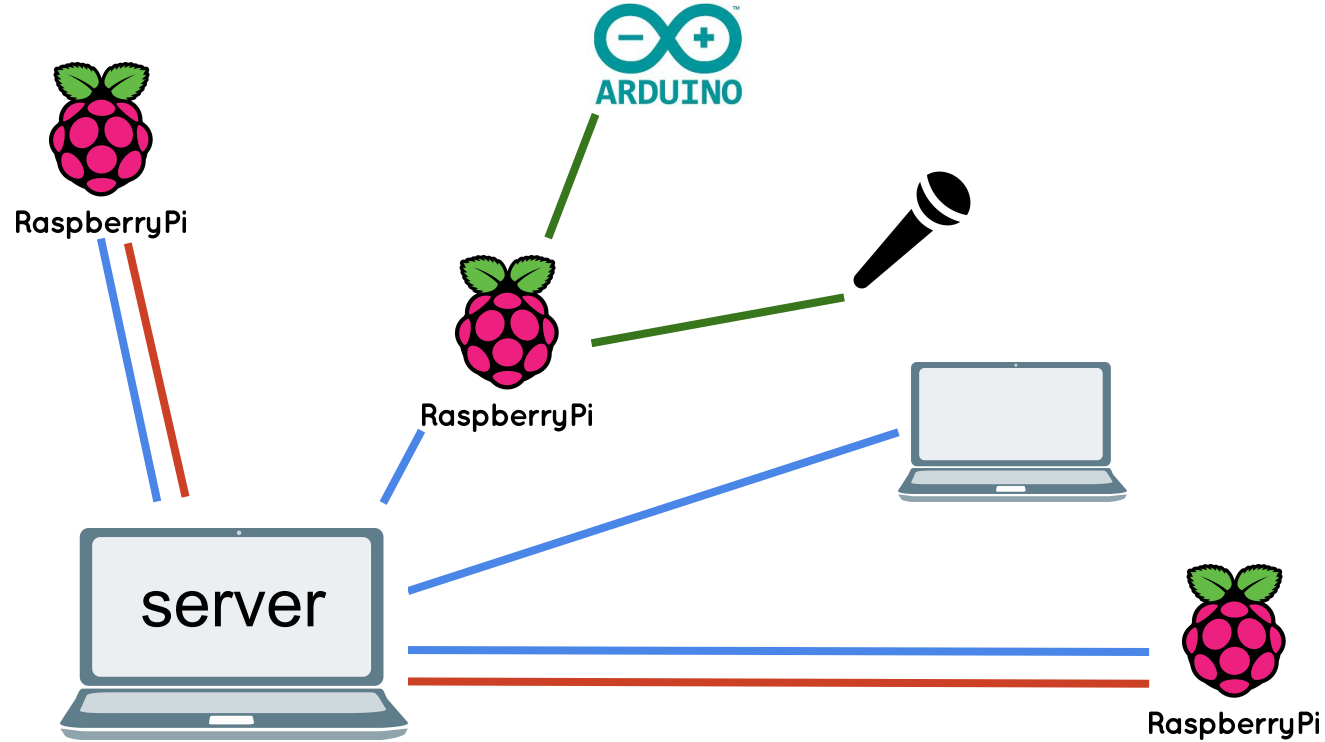


Analog



A/D Converter

Communication



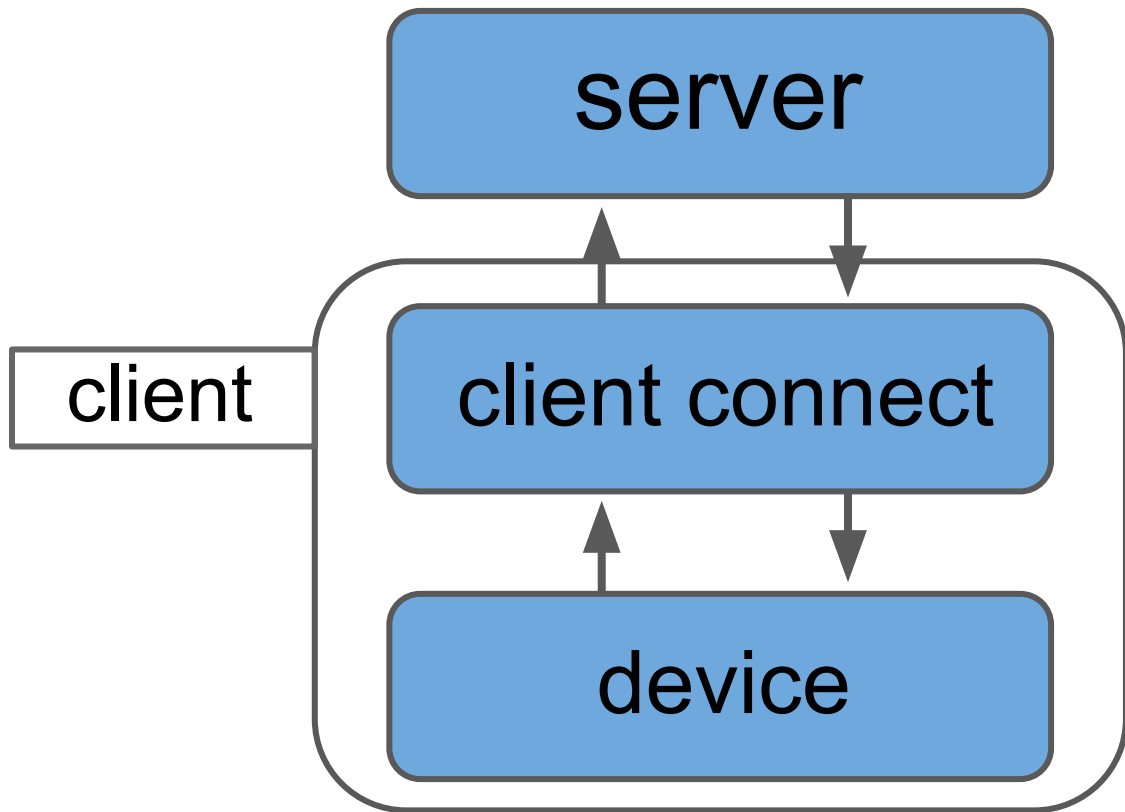
broadcasting - protocol

command

“recvPartsName1/recvPartsName2,command”

message

“myPartsName,message”



Input System

	명령 대상(Group 1)	명령어(Group 2)
1	현관문	닫아줘
2	LED	켜줄래?
3	창문	오픈
4	에어컨	틀어
5	TV	꺼줘

improve

1. 브로드 캐스팅은 네트워크 과부하를 불러올 수 있으므로 대상 **socket**과 **partsname**을 **dictionary**로 묶어서 1대 1 통신을 하는 것
2. **opencv** 라이브러리를 사용하여 큰 영상을 끊임없이 송신하는 것
3. 영상통신 쓰레드의 연결과 해제를 자유롭게 하는 것
4. 큰 모터를 사용하는 것
5. 소리가 나오는 영상을 듣고싶음
6. 명령할 대상을 부르고, 명령어로 제어하는 것