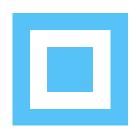
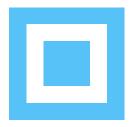


Team 4. 이건륜 유재경 강경태 추예림 유우주

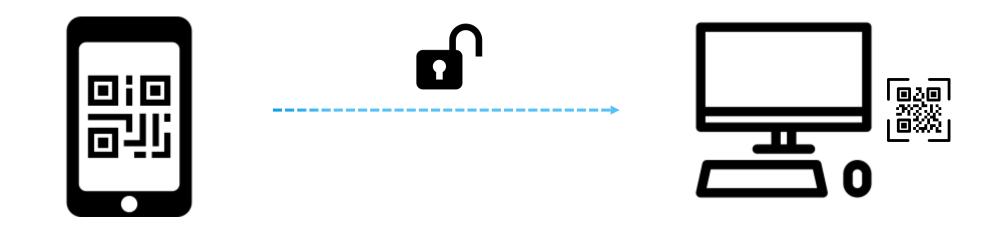


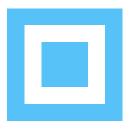
- 1. Public PC Guard? 2. Android Application 3. Server Construction 4. PC remote Control
- 6. Scheduler 5. Extract and send Logs

1. Public PC Guard?

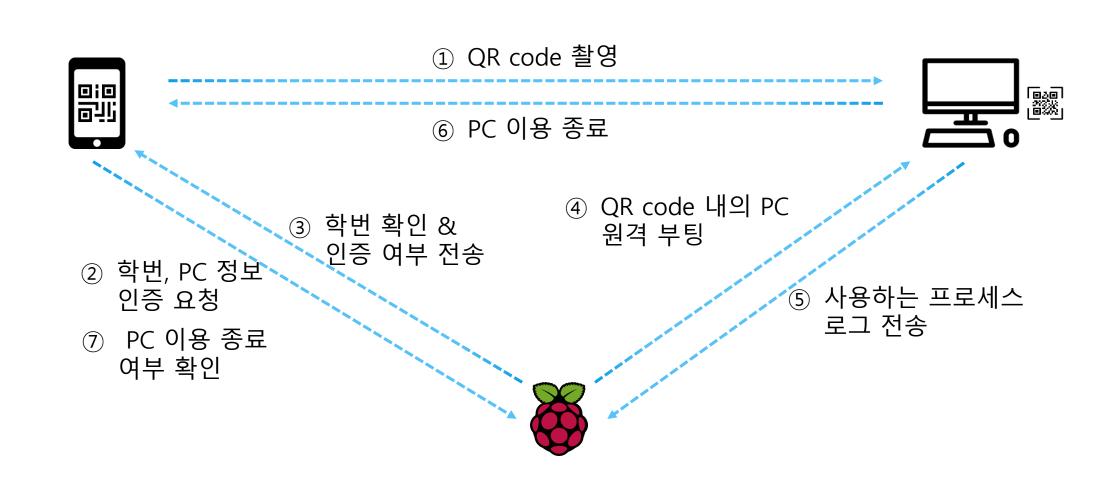


1) 공용 PC 지키미





2) 프로그램 순서도



2. Android Application

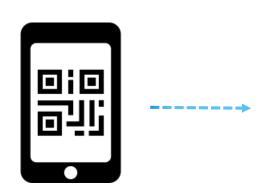
개발 환경: Android Studio

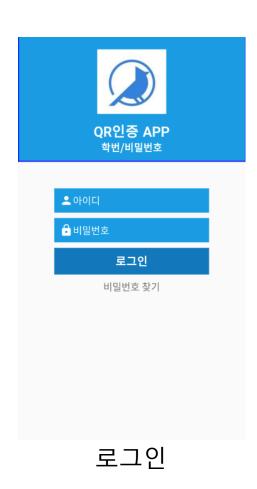




2. Android Application

1) 주요 기능









정보보기

QR code 촬영

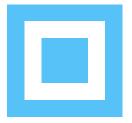
학번, PC 정보 페이지

3. Server Construction

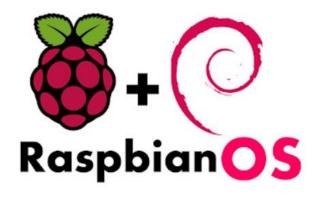
개발 환경: RaspbianOS

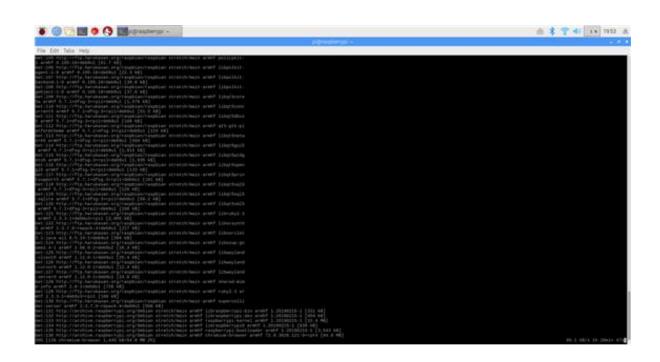
사용 언어: Python3.7





1) 서버 구축 및 DB 연동

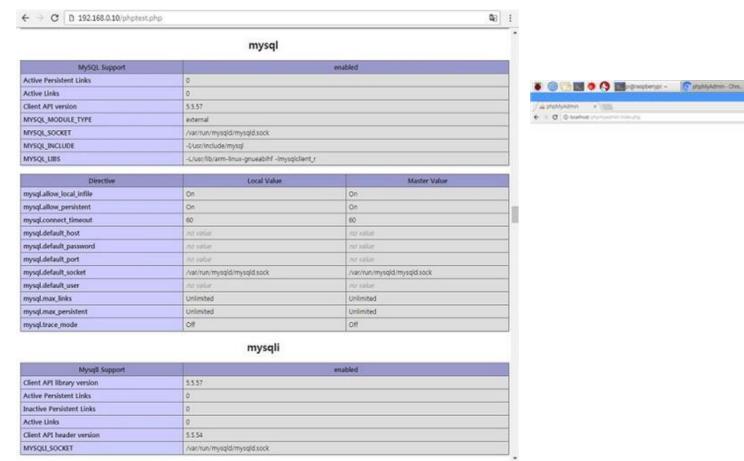




Raspbian install



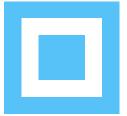
1) 서버 구축 및 DB 연동



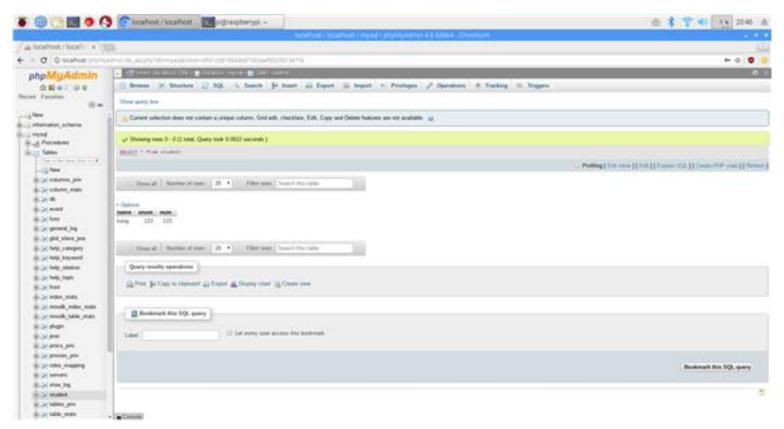


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웹서버 구축 - Apache, MySQL, PHP



1) 서버 구축 및 DB 연동



Database Table 생성



2) 필요한 테이블

이름	학번

학생 테이블

Index	학번	PC 정보	프로세스명

로그 테이블

4. PC Remote control

개발 환경: *RaspbianOS*

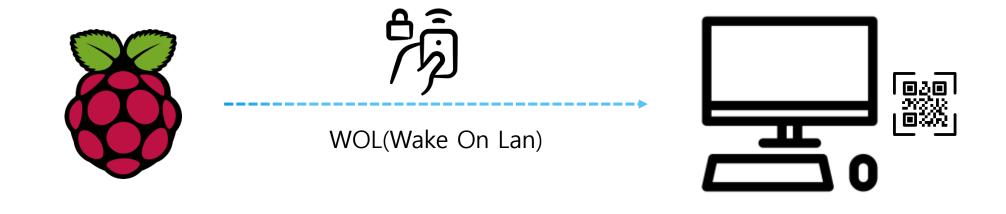
사용 언어: Python3.7

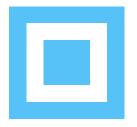




4. PC Remote control

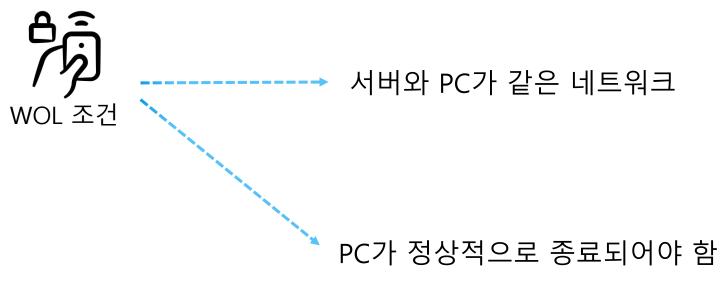
1) PC 원격 부팅 기술 – WOL(Wake On Lan)

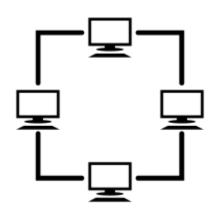




4. PC Remote control

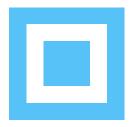
1) PC 원격 부팅 기술 – WOL(Wake On Lan)







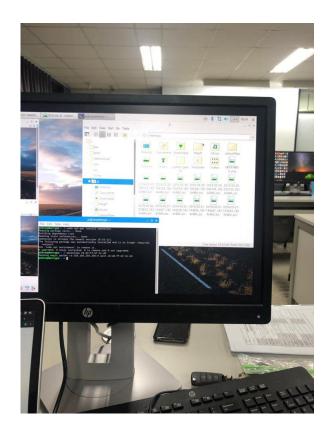




4. PC Remote control

1) PC 원격 부팅 기술 – WOL(Wake On Lan)



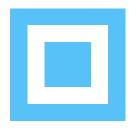


5. Extract and send Logs

개발 환경: Windows 10

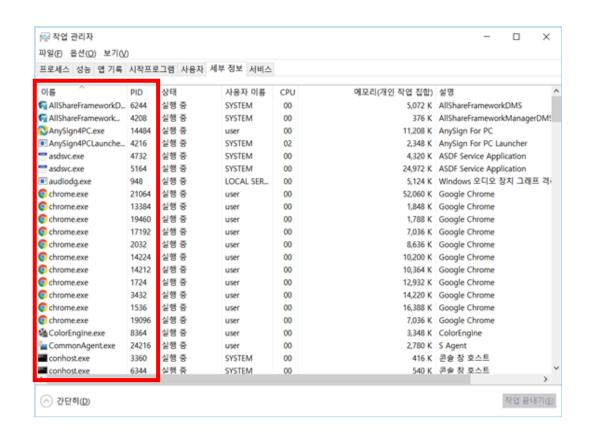
사용 언어: Python3.7



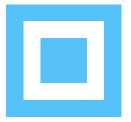








C:\Users\user>tasklist			
이미지 이름	PID 세션 이	름 세션#	메모리 사용
System Idle Process	0 Services	s 0	8 K
System	4 Services		148 K
Registry	96 Services	s 0	21,944 K
smss.exe	376 Services		1,000 K
csrss.exe	544 Services		4,304 K
wininit.exe	636 Services	s 0	4,944 K
csrss.exe	644 Console	1	5,632 K
services.exe	716 Services		12,360 K
Isass.exe	736 Services	s 0	15,832 K
svchost.exe	844 Services		3,056 K
WUDFHost.exe	868 Services		11,144 K
svchost.exe	876 Services		27,444 K
fontdrvhost.exe	912 Services		2,488 K
svchost.exe	1016 Services		15,684 K
svchost.exe	404 Services	9	7,136 K



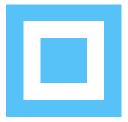
```
#Users#user>wmic process get caption,creationda
chrome.exe
hrome.exe
chrome.exe
chrome.exe
chrome.exe
```



```
import subprocess

res = subprocess.check_output('tasklist', shell=True)
print(res.decode('euc-kr'))

result = subprocess.check_output('wmic process get caption,creationdate | findstr chrome.exe', shell=True)
print(result.decode('euc-kr'))
```



C:\Users\user\Documents\	학교₩1학기#캡스톤₩Log Trans	port#source>python log_transport
이미지 이름	PID 세션 이름	세션# 메모리 사용
======================================	= =======	0 8 K
System System	4 Services	0 24 K
Oysten Registry	96 Services	ŏ 22,120 K
smss.exe	376 Services	0 360 K
csrss.exe	540 Services	0 360 K 0 2,328 K
wininit.exe	628 Services	0 1,788 K
services.exe	756 Services	0 1,788 K 0 6,376 K
Isass.exe	788 Services	0 12,188 K
svchost.exe	908 Services	0 12,188 K 0 1,108 K 0 560 K
fontdrvhost.exe	936 Services	0 560 K
svchost.exe	956 Services	0 21,832 K
VUDFHost.exe	72 Services	0 5.204 K
svchost.exe	1052 Services	0 13,156 K 0 3,428 K
svchost.exe	1104 Services	0 3,428 K
svchost.exe	1304 Services	0 13,804 K
svchost.exe	1324 Services	O 3,420 K
svchost.exe	1396 Services	0 6,928 K
svchost.exe	1472 Services	O 4.040 K
svchost.exe	1480 Services	O 4,652 K
svchost.exe	1608 Services	0 8,000 K
svchost.exe	1644 Services	0 4,132 K
svchost.exe	1824 Services	0 5,304 K
svchost.exe	1836 Services	0 2,016 K
svchost.exe	1956 Services	0 3,776 K
svchost.exe	1964 Services	0 2,820 K

6. Scheduler



6. Scheduler

3월 4월 캡스톤 디자인 재료비 지원 ✔ APP 완성 - 과제신청서 제출 - Intent를 이용한 화면 조합 - 서버 및 PC와 통신 APP ½ 완성 🗸 라즈베리 파이 서버 완성 - DB 설계 - Layout - 관리자가 이용하는 DBMS 구성(GUI 포함) 라즈베리 파이 서버 ⅓ 완성 ✔ Log 추출 구현 - 로그 추출 자동화(부팅부터 종료까지) 구현 - 통신 서버 준비 - 데이터 파일로 저장 후 서버로 전송 PC 원격 부팅 준비 ✔ WOL 자동화 - 어플을 통한 PC 제어방법 구현 - PC 재인증 시간 설정(예약 종료) Log 추출 설계 ✔

과제 정산서 제출

5월

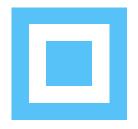
초기 모델 구현 및 테스트

- 모델 테스트
- 영상

최종 프레젠테이션 및 보고서 작성

- 결과보고서 제출





Thank you for Listening!

