

Salus

대전 1반 10조 **SALUS**

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1. 프로젝트 기술 스택

- 가. 이슈 관리 : JIRA
- 나. 형상 관리 : Git Lab
- 다. 커뮤니케이션: MatterMost, DisCord
- 라. 개발 환경:
 - 1) OS : Window
 - 2) IDE : Visual Studio Code
 - 3) DataBase : MariaDB(HeidiSQL)
 - 4) Server : AWS EC2
 - a) ubuntu 20.04 LTS
 - b) Socket.io 2.5.0
 - 5) IoT
 - a) Linux raspberrypi : 5.15.56
 - b) Arduino : 1.8.19
- 마. 상세내용
 - 1) BackEnd
 - a) Node : 16.16.0
 - b) express : 4.18.1
 - c) mybatis-mapper : 0.6.8
 - 2) FrontEnd
 - a) Node: 16.16.0
 - b) React : 18.2.0
 - 3) Mobile
 - a) React-Native : 0.68.2
 - b) expo : 45.0.0
 - 4) IoT
 - a) Python : 3.9.2

2. 빌드 상세 내용 :

- 가. 배포 명령어

1) 공통

a) 서버 실행을 위한 명령어

```
wonseok@DESKTOP-KVCQHCD:~$ ssh -i 17B110T.pem ubuntu@17B110.p.ssafy.io
```

b) 깃 리포지토리로 이동 cd S07P12B110/

```
ubuntu@ip-172-26-13-87:~$ cd S07P12B110/
```

2) BackEnd

a) BackEnd폴더로 이동

```
ubuntu@ip-172-26-13-87:~/S07P12B110$ cd BackEnd/
```

b) 서버 실행

```
ubuntu@ip-172-26-13-87:~/S07P12B110/BackEnd$ npm start
```

c) 서버 켜진 상태

```
> backend@1.0.0 start
> nodemon server

[nodemon] 2.0.19
[nodemon] to restart at any time, enter `rs`
[nodemon] watching path(s): *.*
[nodemon] watching extensions: js,mjs,json
[nodemon] starting `node server.js`
Salus Server started 3010
```

3) FrontEnd

a) FrontEnd폴더로 이동

```
ubuntu@ip-172-26-13-87:~/S07P12B110$ cd FrontEnd/
```

b) 서버 실행

```
ubuntu@ip-172-26-13-87:~/S07P12B110/FrontEnd$ npm start
```

c) 서버 켜진 상태

```
Compiled successfully!

You can now view frontend in the browser.

  Local:            http://localhost:3000
  On Your Network:  http://172.26.13.87:3000

Note that the development build is not optimized.
To create a production build, use npm run build.

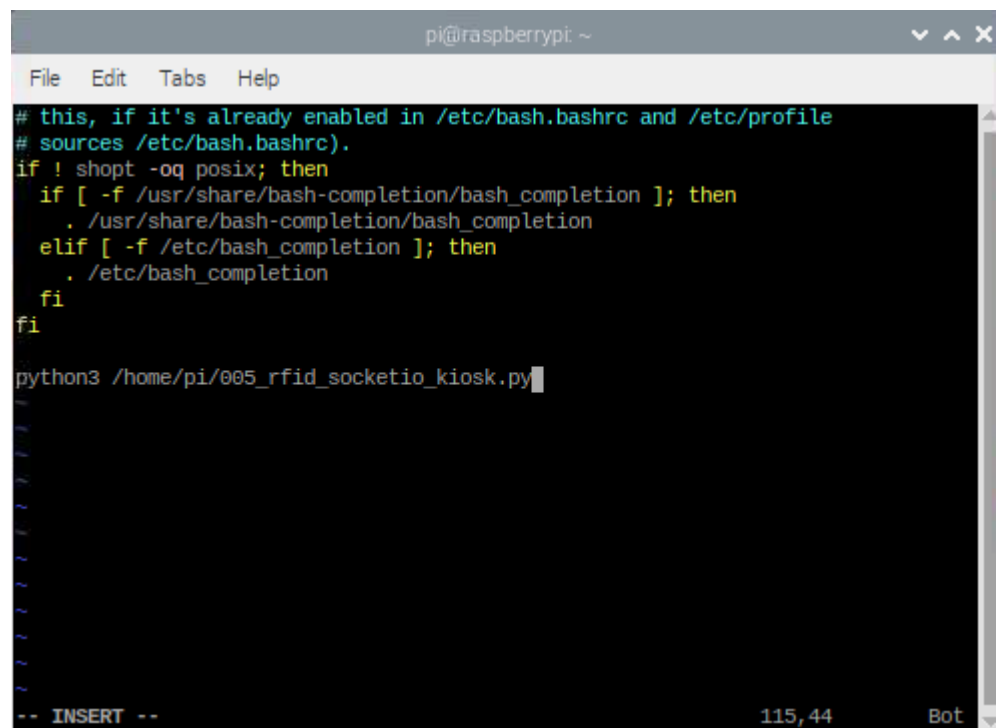
webpack compiled successfully
```

4) Mobile

- a) 엑스포를 활용하여 모바일 apk 빌드
expo build:android
- b) apk 선택

5) IoT

- a) .bashrc에 라즈베리파이를 부팅시 해당 코드를 실행하도록 설정되어 있음



```
pi@raspberrypi: ~
File Edit Tabs Help
# this, if it's already enabled in /etc/bash.bashrc and /etc/profile
# sources /etc/bash.bashrc).
if ! shopt -oq posix; then
  if [ -f /usr/share/bash-completion/bash_completion ]; then
    . /usr/share/bash-completion/bash_completion
  elif [ -f /etc/bash_completion ]; then
    . /etc/bash_completion
  fi
fi

python3 /home/pi/005_rfid_socketio_kiosk.py

-- INSERT -- 115,44 Bot
```

- b) 해당 방식으로도 코드 실행 가능

```
pi@raspberrypi:~/Desktop/S07P12B110/IoT $ cd /home/pi/Desktop/S07P12B110/IoT
pi@raspberrypi:~/Desktop/S07P12B110/IoT $ python3 012.py
```

3. DB 계정 세팅 :

가. ubuntu안 mariaDB 설치

- 1) 리포지토리에서 패키지가 있는 지 체크하고 설치된 패키지를 업데이트 하기.

```
|privshin6949@instance-1:~$ sudo apt update && sudo apt-get -y upgrade
Hit:1 http://us-west1.gce.archive.ubuntu.com/ubuntu focal InRelease
Hit:2 http://us-west1.gce.archive.ubuntu.com/ubuntu focal-updates InRelease
Hit:3 http://us-west1.gce.archive.ubuntu.com/ubuntu focal-backports InRelease
Hit:4 http://security.ubuntu.com/ubuntu focal-security InRelease
Hit:5 http://archive.canonical.com/ubuntu focal InRelease
Reading package lists... Done
Building dependency tree
Reading state information... Done
6 packages can be upgraded. Run 'apt list --upgradable' to see them.
```

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```
sudo apt update && sudo apt-get -y upgrade
```

- 2) mariaDB 설치

```
|privshin6949@instance-1:~$ sudo apt-get install -y mariadb-server
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
  galera-3 libcgi-fast-perl libcgi-pm-perl libconfig-inifiles-perl
  libdbd-mysql-perl libdbi-perl libencode-locale-perl libfcgi-perl
  libhtml-parser-perl libhtml-tagset-perl libhtml-template-perl
  libhttp-date-perl libhttp-message-perl libio-html-perl
  liblwp-mediatypes-perl libmysqlclient21 libsnappy1v5 libterm-readkey-perl
  libtimedate-perl liburi-perl lsof mariadb-client-10.3
  mariadb-client-core-10.3 mariadb-common mariadb-server-10.3
  mariadb-server-core-10.3 mysql-common psmisc rsync socat
Suggested packages:
  libclone-perl libmldbm-perl libnet-daemon-perl libsql-statement-perl
  libdata-dump-perl libipc-sharedcache-perl libwww-perl mailx mariadb-test
```

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```
sudo apt-get install -y mariadb-server
```

- 3) mysql 실행

```
|privshin6949@instance-1:~$ sudo mysql
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 76
Server version: 10.3.22-MariaDB-lubuntu1 Ubuntu 20.04

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MariaDB [(none)]> use mysql;
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A

Database changed
MariaDB [mysql]> █
```

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```
sudo mysql
```

- 4) user = 'salus' password('b110IOT~')로 계정 생성

```
MariaDB [mysql]> set password = password('test1234');  
Query OK, 0 rows affected, 1 warning (0.001 sec)
```

```
MariaDB [mysql]> flush privileges;  
Query OK, 0 rows affected (0.000 sec)
```

코요블루의 다락방
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```
update user set plugin='' where User='root';  
set password = password('YOUR PASSWORD');  
flush privileges;
```

5) mysql -u salus -p 입력 후 비밀번호 입력하여 mysql 실행

```
privshin6949@instance-1:~$ mysql -u root -p  
Enter password:  
Welcome to the MariaDB monitor. Commands end with ; or \g.  
Your MariaDB connection id is 78  
Server version: 10.3.22-MariaDB-1ubuntu1 Ubuntu 20.04  
  
Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.  
  
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.  
  
MariaDB [(none)]>
```

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```
mysql -u root -p
```

6) use salus 통하여 데이터베이스 변경

```
MariaDB [(none)]> use salus;  
Reading table information for completion of table and column names  
You can turn off this feature to get a quicker startup with -A  
  
Database changed
```

7) salus.sql에 있는 query문을 넣어 database 생성 말의 상태에서 query문 복사 붙여넣기(복사한 뒤 마우스 왼쪽클릭)

```
MariaDB [salus]>
```

8) 시간 설정을 한국 시간으로 변경

```
SET GLOBAL time_zone='+09:00';  
SET time_zone = '+09:00';
```

4. 기타

가. .ignore 된 파일

1) BackEnd

- a) .env 파일
- b) node_module 폴더

2) FrontEnd

- a) .env 파일
- b) node_module 폴더