쓰고 싶은 기능? 정리해줌

카메라

```
from time import sleep
from picamera import PiCamera

def Take_pic():
  cam=PiCamera()
  cam.start_preview()
  for i in range(5):
    print(i)
    sleep(1)
  cam.capture('./yourFace.jpg')
  cam.stop_preview()
```

표정 인식

```
import requests
import json
from pprint import pprint

def Face_recog():
  client_id=""
  client_secret=""
  target='yourFace.jpg'

  url = "https://naveropenapi.apigw.ntruss.com/vision/v1/face"
  files = {'image': open(target, 'rb')}
  headers = {'X-NCP-APIGW-API-KEY-ID': client_id, 'X-NCP-APIGW-API-KEY': client_secret}
  response = requests.post(url, files=files, headers=headers)
  response_code = response.status_code

  my_json = json.loads(response.text)
  if response_code == 200:
    pprint(my_json, indent=2)
  else:
    print("Error Code:" + response_code)
```

캡처

```
import os

def Capture_display():
  os.system("rm ./capture.jpg")#같은이름으로 덮어쓰려고
  os.system("scrot ./capture.jpg")

#파일이 현재 폴더위치에 저장!
```

업로드할 파일 이름 설정하기

```
import subprocess

def ImgName():
  kiosk_id="SSAFY4"
  output = subprocess.run("date", stdout=subprocess.PIPE,text=True)
  output=output.stdout
  name=kiosk_id+"_"+output[4:6]+"_"+output[16:18]+output[19:21]+output[22:24]+".jpg"
  #print(name)
  return name

#리턴값 사용하면 됩니다
#ex 8월10일16시01분30초 의경우
# SSAFY4_10_040130.jpg 로 저장!
```

s3에 연결하기

```
import boto3

#S3와 연결
def connect_s3():
    try:
        Bucket=boto3.client(
            service_name="s3",
            region_name="ap-northeast-2",
            aws_access_key_id="",
            aws_secret_access_key="",
        )

    except Exception as e:
        print(e)
```

```
    else:
        print("connected")
        return Bucket
```

s3에 파일 업로드하기

```
import boto3

def Upload_s3():
global upload_name
  myBucket=connect_s3()
  bucket_name="alcoholwhale"

  try:
      #upload img here
    upload_name=ImgName()#이름 설정하는 함수 실행
    myBucket.upload_file("./capture.jpg",bucket_name,upload_name)
  except Exception as e:
    print(e)
  else:
    print("uploaded")
```

QR코드 만들기

```
import qrcode

def QR_generator():
  global upload_name
  my_url="https://alcoholwhale.s3.ap-northeast-2.amazonaws.com/"+upload_name
  img_url=qrcode.make(my_url)
  img_url.save("./qr.png")
  #img_url.show()
```