MPDV Office Documentation

Project Scope

This project involves the development of efficient office automation system based on biometric authentication with the following features:

• Login to dashboard based on personnel's identity

•Automation of adding Hydra system personnel into facesec device

| Compare_office.py	Code to sync the data of the hydra system and facesec device to add all personnel that is from the hydra system to facesec device
Main_office.py	Main code to run so the Logon to the dashboard and synchronization of the hydra system and facesec device
Client_office.py	Code to run to enable to receive request to logon to the dashboard of the user who scan face

Prerequisites

- Make sure time on FaceSec matches your laptop (NTP doesn't work on NYP wifi)

- Make sure that all the devices are connected to the ethernet hub of HYDRA server in Manufacturing lab (S.124) using Lan Cable

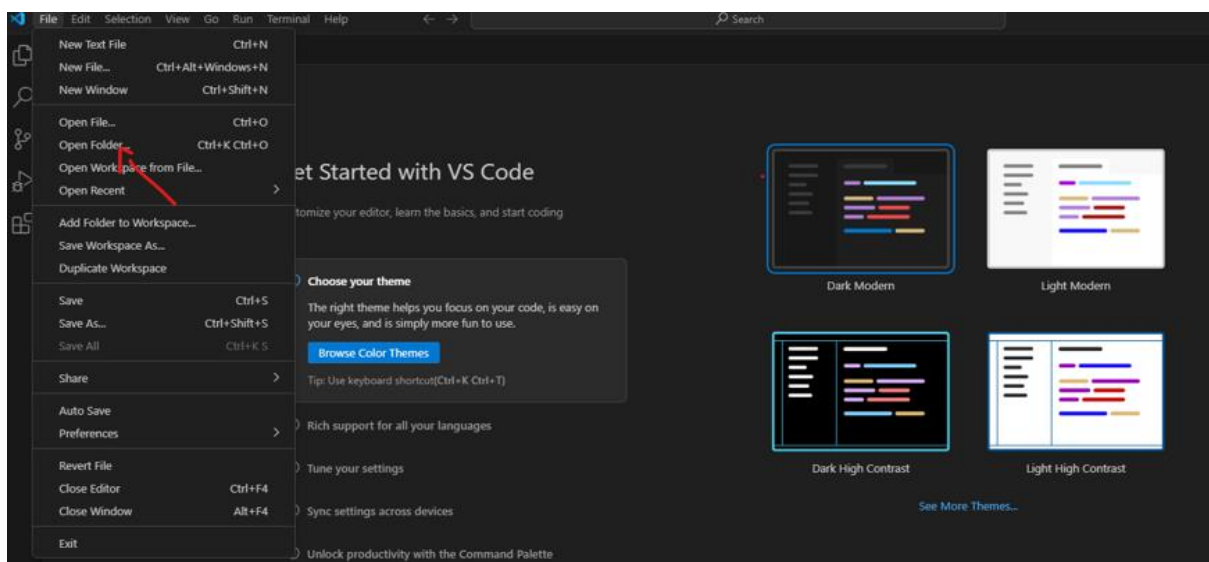- Download Vscode or any python interpreter so that you can run the code
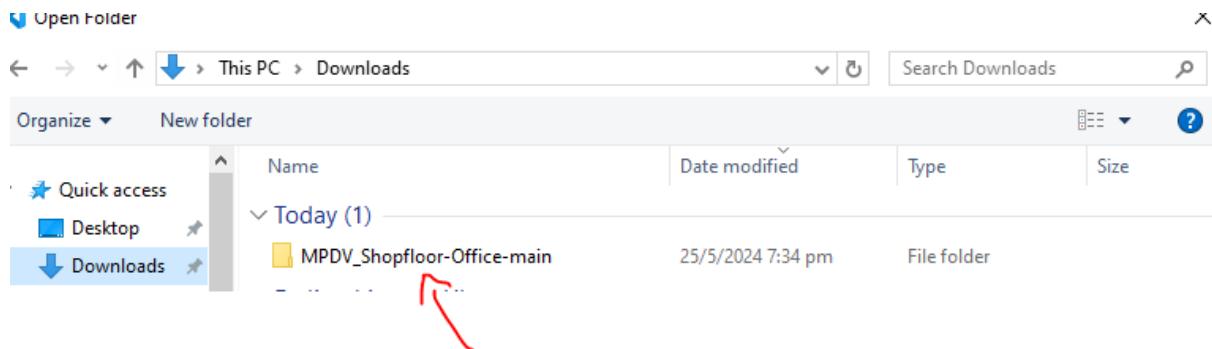
Running of scripts (Office)

Importing and running code

1. To import the codes, click the file button that is on the top of VsCode as show in the pictures below
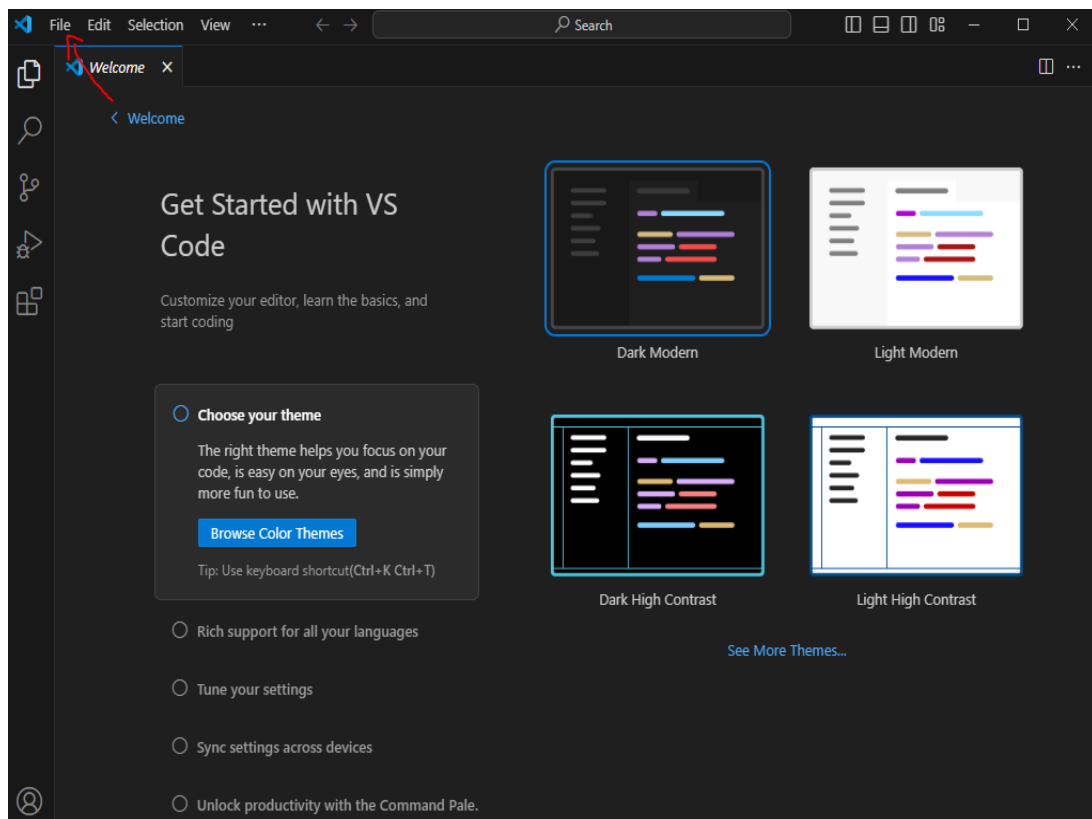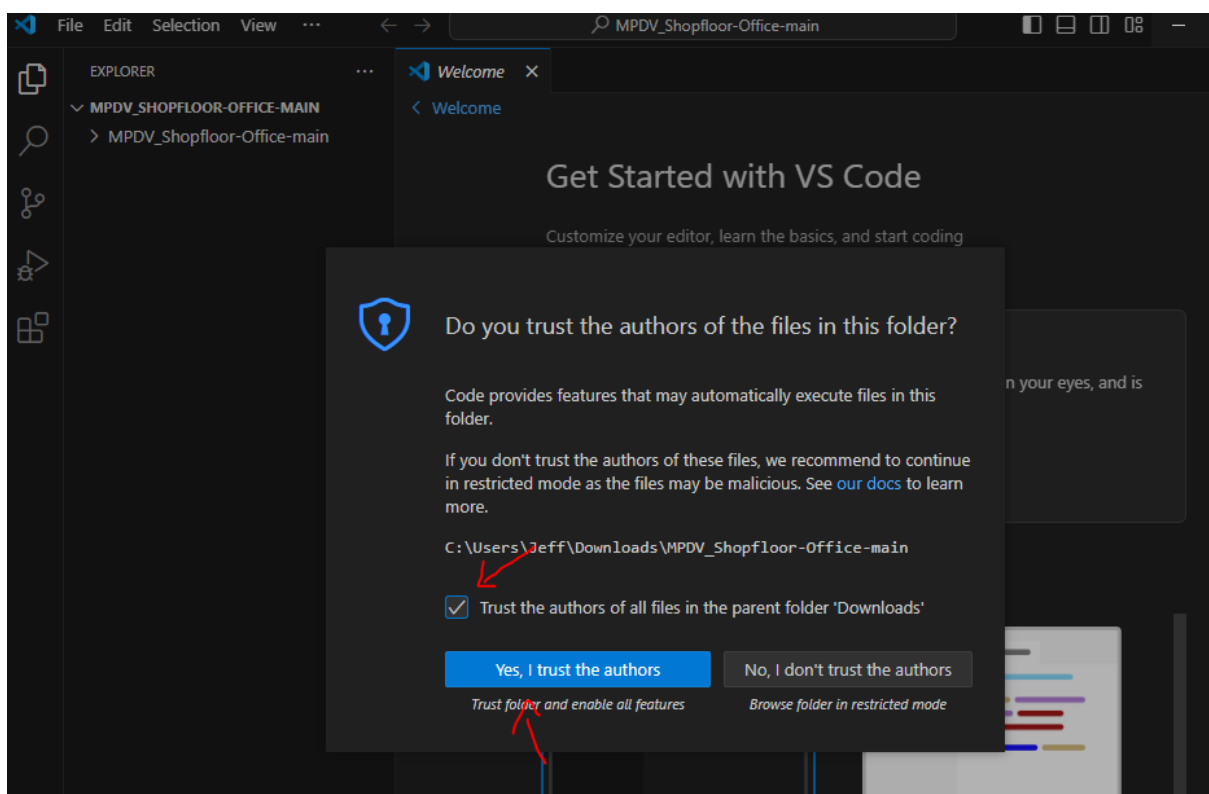
2. Click on open folder and find the file path of the folder and click on it to import the codes
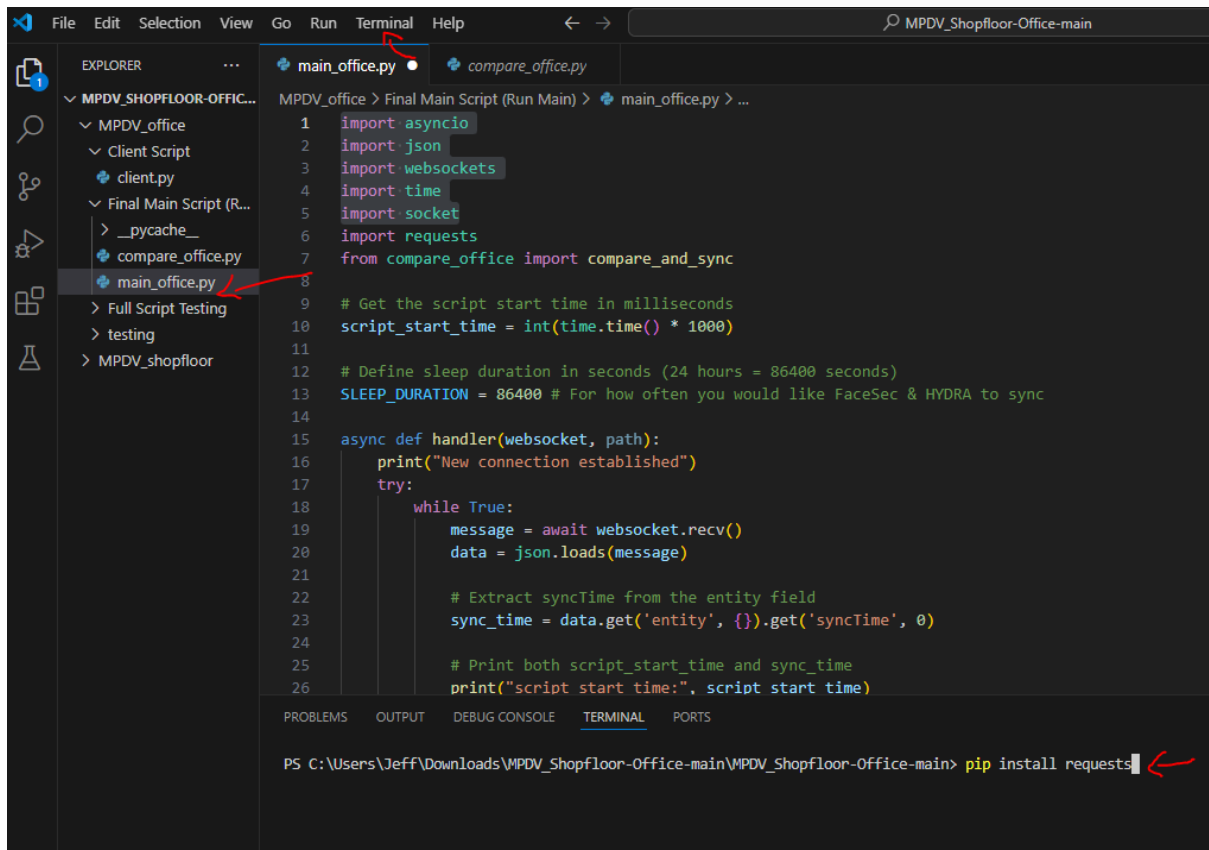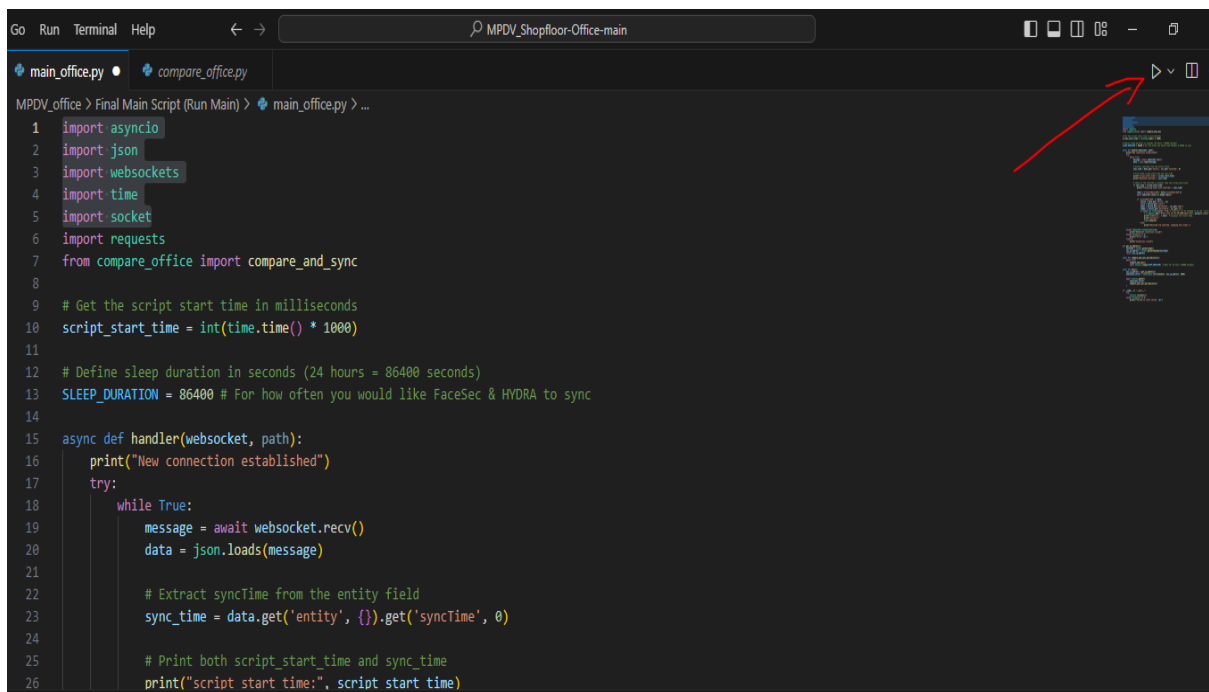
3. Tick the trust the author of all files and click yes i trust the author

4. Click on Main_office
5. Click on Terminal to download libraries needed to run
6. Pip install requests
7. Pip install websockets
8. Pip install time
9. Pip install json
10. Pip install asyncio
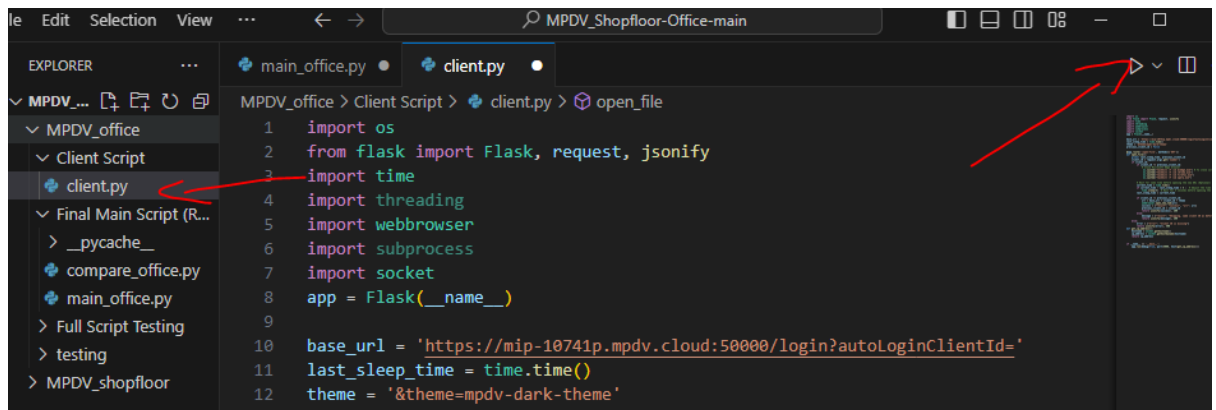11. pip install socket
12. pip install flask

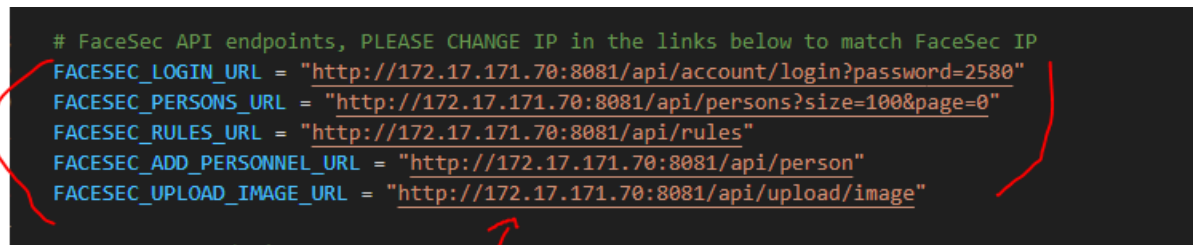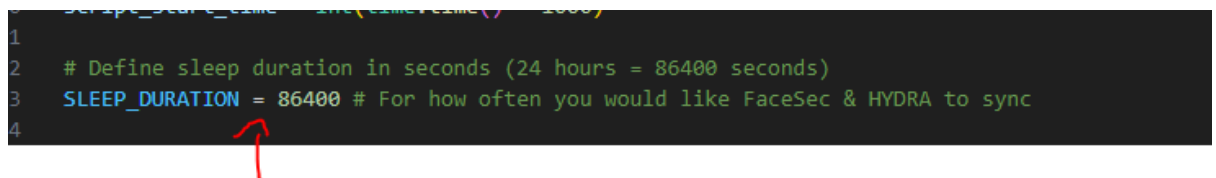13. Run main_office.py by click on the arrow on top right

14. Click on Client.py
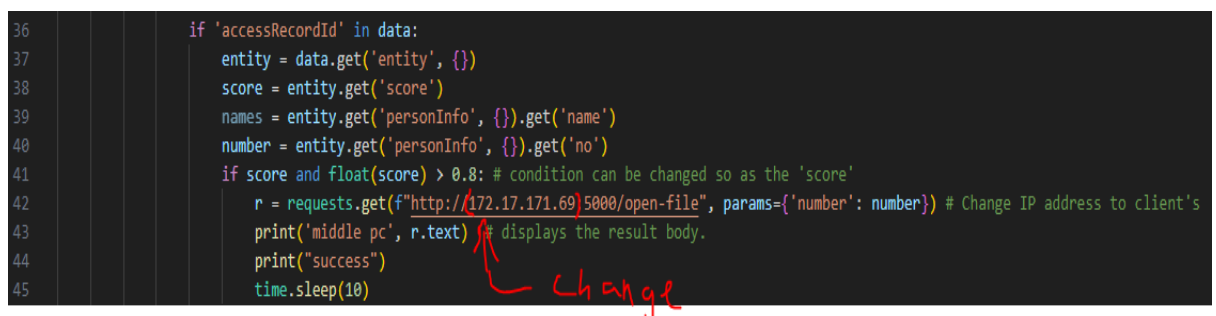
15. Run Client.py by click on the arrow on top right

16. CHANGE all IP in the links below to match FaceSec IP(From Compare_office.py)

```python
# FaceSec API endpoints, PLEASE CHANGE IP in the links below to match FaceSec IP
FACESEC_LOGIN_URL = "http://172.17.171.70:8081/api/account/login?password=2580"
FACESEC_PERSONS_URL = "http://172.17.171.70:8081/api/persons?size=100&page=0"
FACESEC_RULES_URL = "http://172.17.171.70:8081/api/rules"
FACESEC_ADD_PERSONNEL_URL = "http://172.17.171.70:8081/api/person"
FACESEC_UPLOAD_IMAGE_URL = "http://172.17.171.70:8081/api/upload/image"
```

17. Change it to how often you would like FaceSec & HYDRA to sync(from Main_office.py)

```python
# Define sleep duration in seconds (24 hours = 86400 seconds)
SLEEP_DURATION = 86400 # For how often you would like FaceSec & HYDRA to sync
```

18. Change this part of the code from Main_office.py, Ip Address to the Ip of the device running Client.py(Different Ip address)

```python
if 'accessRecordId' in data:
    entity = data.get('entity', {})
    score = entity.get('score')
    names = entity.get('personInfo', {}).get('name')
    number = entity.get('personInfo', {}).get('no')
    if score and float(score) > 0.8: # condition can be changed so as the 'score'
        r = requests.get(f"http://172.17.171.69:5000/open-file", params={'number': number}) # Change IP address to client's
        print('middle pc', r.text) # displays the result body.
        print("success")
        time.sleep(10)
```

Change

19. This Ip address below is just an example it is different between wifi and devices


```python
import os
from flask import Flask, request, jsonify
import time
import threading
import webbrowser
import subprocess
import socket
app = Flask(__name__)

base_url = 'https://mip-10741p.mpdv.cloud:50000/login?autoLoginClientId='
last_sleep_time = time.time()
theme = '&theme=mpdv-dark-theme'
previous_client_id = False

@app.route('/open-file', methods=['GET'])
def open_file():
    global last_sleep_time, previous_client_id
    client_id = request.args.get('number')
    if client_id:
        if client_id != previous_client_id:
            # Close Microsoft Edge browser
```

```
PS C:\Users\Jeff\Downloads\MPDV_Shopfloor-Office-main> & C:/Users/Jeff/AppData/Local/Programs/Python/Python312/python.exe "c:/Users/Jeff/Downloads/MPDV_Shopfloor-Office-main/MPDV
Shopfloor-Office-main/MPDV_office/Client Script/client.py"
 * Serving Flask app 'client'
 * Debug mode: on
WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.
 * Running on http://192.168.1.95:5000          Change   to   this
Press CTRL+C to quit                            Ip address
 * Restarting with stat
 * Debugger is active!
 * Debugger PIN: 549-437-807
```

6

FaceSec Device

To configure wifi settings, follow the steps:

- Connect to the power plug and press the power button on the side to turn it on.
- It will connect to the wifi in the C4AI room if the router is turn on,if it is not, manually change the wifi to the C4AI_5GHz(name of wifi) wifi
- The password of the device is 2580
- To get to the web UI for FaceSec, click the 4th icon and type the url into your computer to access the web browser
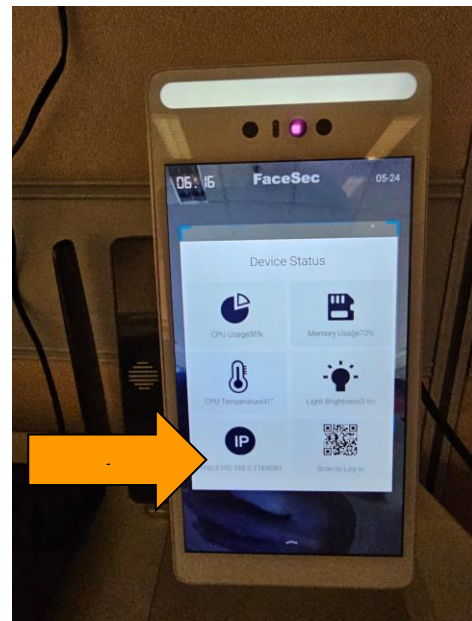
- The Account name is: **admin** and Password is: **2580**
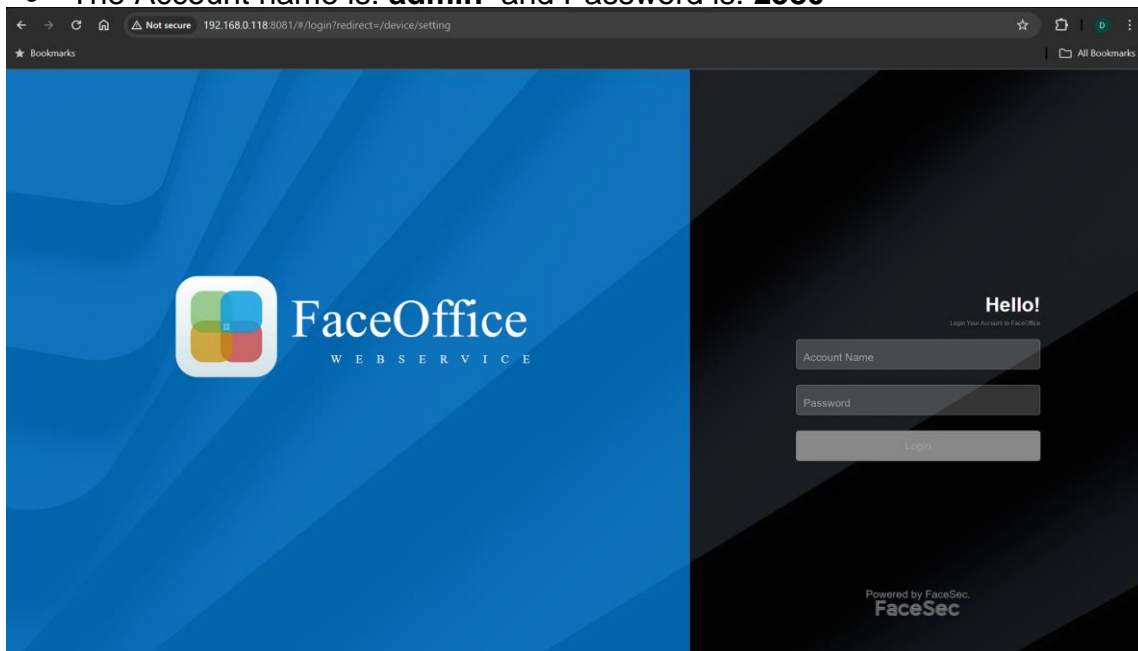
● Go to 'Device' > 'Access Records' and change ip address to your laptop's
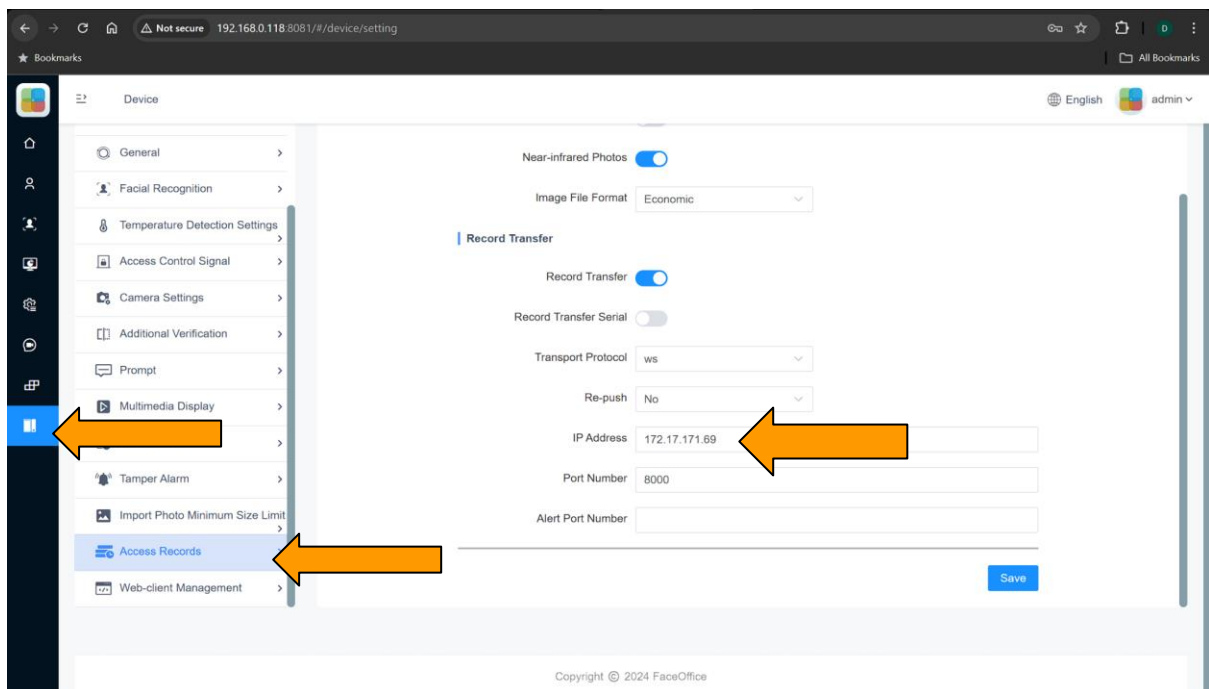
To add your face, press third icon & enter 2580> add personnel > fill in

required fields (picture), name & no.