SMARTINVIGILATION SYSTEM MANUAL SCRIPT

❖ Face Pose Detection

This project will look into a technique that might help detect face orientation or pose. And I will focus on only detecting three main poses which are:

- Frontal Face.

- Right Profile.

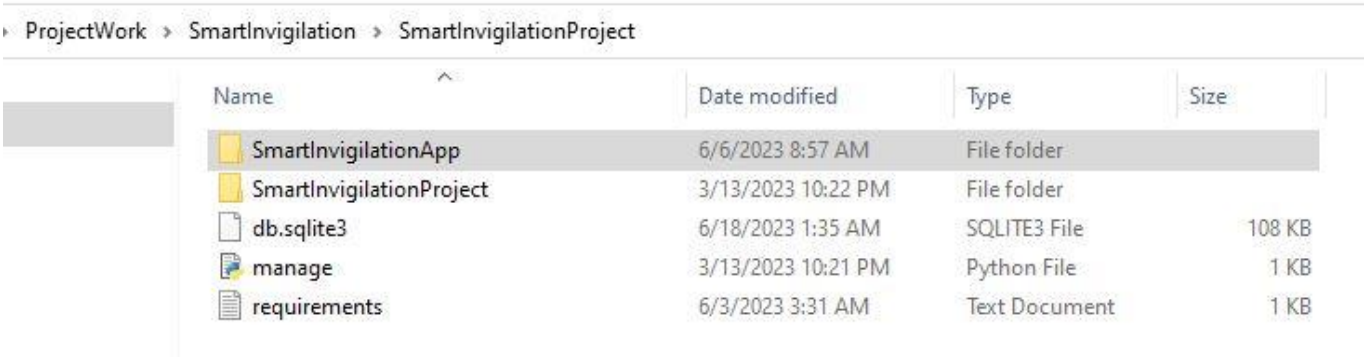
- Left Profile.

❖ Project requirements

1. torch==1.9.1
2. requests==2.25.1
3. matplotlib==3.3.4
4. numpy==1.18.2
5. facenet_pytorch==2.5.2
6. Django==4.2
7. Pillow==8.3.2
8. gunicorn==20.1.0
9. opencv-python==4.7.0.72
10. opencv-contrib-python==4.8.0.74

❖ Installation

1. Open the root directory of the project, and then open it with your command prompt.



2. Then run this command in your command prompt
    - Pip install –r requiremts.txt

```
C:\Windows\System32\cmd.exe
Microsoft Windows [Version 10.0.19043.928]
(c) Microsoft Corporation. All rights reserved.

C:\Users\DIMOSO JR\Desktop\ProjectWork\SmartInvigilation\SmartInvigilationProject>pip install -r requirements.txt
```

3. After installing all requirements, then run these commands in your command prompt.
    - Python manage.py makemigartions
    - Python manage.py migrate
    - Python manage.py runserver
4. The next step, copy the ip address that is generated after running the last command in step 3, and paste it on your browser.
5. The invigilator interface will be opened, so the next step is to login using email and password.
    - Testing email: invigilator-1@gmail.com
    - Testing password: invigilator-1
6. Start Invigilation process