

SaferLife Surveillance System with Face Recognition

Github repo: <https://github.com/saoudnazir/SaferLife>

Prerequisites:

1. Python
2. Face_recognition: pip/pip3 install face_recognition
3. CMake : pip/pip3 install cmake
4. Opencv-python : pip/pip3 install opencv-python
5. [Xampp](#)
6. Django: pip/pip3 install Django

Steps:

1. Install Python from official [website](#).
2. Install Xampp
3. Once you install XAMPP successfully, Move "SaferLife" directory into htdocs folder in xampp folder.
4. Import "saferlife.sql" in project-folder/ to XAMPP server to update the database in Mysql Sever
5. Open Terminal/Command Prompt, change directory to "server" directory and run "python manage.py runserver 0.0.0.0:8000"
6. Open another Terminal / Command prompt and change directory to project directory and then to "socket" directory.
7. Open browser and type "<http://0.0.0.0:8000/socket/>" to start accepting socket connections.
8. Run "python client.py"
9. Open browser and type "localhost/Saferlife/".
10. It will automatically take you to Sign In page (if you haven't logged in yet). The account will be:
 - Username: manhhuyvo
 - Password: huy123
11. Then, you will be able to see live stream on the browser. The default page is index.php
12. Also, you can use the Web UI to add new records, search, display a person by choosing from side menu.
13. Click "Generate Local DB" to update your local DB if you added a new person / criminal. The new db.json file will be saved in project-folder/backend/server/
14. Click "Save Video" to save the whole session. The new video file video1.avi will be saved in project-folder/backend/server/

Note:

1. For Mac, Running "client.py" is recommended from Terminal because Mac OS does not allow VS Code to access Camera from it's terminal.
2. You may need to change IP address with your local IP address. You can change it in "connect.php".

3. You also need to change IP Address with your local IP address in `project-folder/backend/server/MyApp/views.py`. The variable inside `views.py` is `"ipAddr"` on line 28.