



Care Tracker
Care your missing by tracking



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Readme File

Github Repository





Care Tracker:

Helps to find the missing persons.

This Application consists of two parts one we have hosted on azure ([link](#)) which takes care of the interaction with the user and another is a group of scripts that needs to run on a local computer which handles all the cameras connected with this application.

IDEA: The application is used to find missing persons in the city, for this we need to connect the application with all or some of the cameras installed in the city. A user need to sign up on the web application with some basic credentials and after signing up using these credential the user will have access to the service, user can apply for an application which demands for a photograph of the user having single face and in vertical position, as soon as any such missing person comes under the surveillance of the camera the utility application updates the last track location and time in the account of that user.

HOW TO SET UP THE UTILITY:

1. First install python3(version == 3.8 better) if not installed:
Check if already installed or not using below command:
 Pyhon --version
If not installed install one:
 <https://www.python.org/downloads/>
2. Make sure to install PIP along with the python.
Check if pip is installed or not: python -m pip3 --version
3. Download or clone the repository in your system at your desired location.
To Clone:
 git clone <https://github.com/Prachiiitd/EngageFr.git>
To Download:
 You can simply click on the download button at the top right at the link below.
 <https://github.com/Prachiiitd/EngageFr.git>





4. Install ODBC drivers:

Way to Install odbc driver on windows only:

The complete information about the installation can be found [here](#) though the minimal requirements are explained below.

- a. Download driver file(msodbcsql.msi) from following links
Page containing the links can be found [here](#) or you can go with any of the below link as
per your system requirements this will download the msodbcsql.msi file in your system

For 32 bit:

<https://go.microsoft.com/fwlink/?linkid=2187028>

For 64 bit:

<https://go.microsoft.com/fwlink/?linkid=2186919>

- b. Move to the location where you have downloaded the driver file (msodbcsql.msi) and open the command prompt at this location.
- c. Execute the following command

```
msiexec /i msodbcsql.msi IACCEPTMSODBCSQLLICENSETERMS=YES ADDLOCAL=ALL
```

- d. Now the odbc driver will be installed in the system.
- e. Check by typing the following command in command line
pip install pyodbc

If the above command runs errorless than drivers are installed

5. Now move to the location where you have cloned or downloaded the github repository.
6. Open command prompt as an administrator at this location.
Alternatively, You can create a virtual environment at this location and run the following command in the command prompt at this location. For the time being we will go without a virtual environment.

Pip install -r requirements.txt

7. This will install all the required libraries.
8. Now move to the FrDetection folder of the repository in your system.
9. Here we have two main files viz. main_for_ipCam.py and main_for_webCam.py





Note: The remaining part of the application we made is already hosted at this [website](#) using azure service and can be used directly. There is no need to set them locally.

How to use the utility:

User Work: first you need to sign up on the web app and the sign in with your credentials and then need to apply for a new application for the person got missed with photograph

Admin works: Someone admin works need to be done in case of the local setup been run using **main_for_ipCam.py** file:

1. Install Ip Webcam application in you android phone.
2. Connect the laptop and the android phone with the same network
3. Click on start server.
4. Note the ip which is <http://xxx.xxx.xxx.xxx:xxxx> here xxx.xxx.xxx.xxx:xxxx is the ip address
5. Go to the following link:
<https://caretrackerfr.azurewebsites.net/auth/admin/>
6. Use the following credentials:
Username: ipadder
Camera address: location of the camera
Ip address: ipaddress from above method
Password: Engage@123
7. This will add the ip of the phone camera in the system to detect the missing persons.

main_for_webCam.py :

This file detects the missing person using the webcam installed in the laptop itself.

Run this file using the following command:

```
python main_for_webCam.py
```

In this way the camera will start and ready to detect any missing person for hom someone have applied at the web application ([caretracker](#))

main_for_ipCam.py:(The X-feature)

This file detects the missing person using the ip camera.

Run this file using the following command:

```
python main_for_ipCam.py
```

In this way the camera will start and ready to detect any missing person for hom someone have applied at the web application ([caretracker](#))

If any of the above files stops, use the following command in the command prompt.

```
python faceRecognition.py
```

If some result showed up than you are good to go with again running the abov command of any of the main files.





The camera will detect the missing if it comes under the surveillance and update data for that.

The users can check if the person have been found somewhere or not and can meet with him.

Note: I accept that the application may be in some bugs as nothing is bug free until someone finds it but I have tried my best to make it user friendly, bug free, and as much as interactive as possible.

It would be really helpful if you can write to me if you find any bug at prachi20098@iiitd.ac.in.
Thanks in advance.

