

ONLINE ELECTION SYSTEM

TEAM

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17BTRCT012

17BTRMA021

17BTRCT051

17BTRCT055

17BTRCT018

Secure Voting is a complete solution for the online election system. The electronic voting system is 100% web based, easy to use, most convenient, user friendly, and integrated with ultimate security features. Our Internet voting system is a flexible, feature-rich election service ideal for all types of organizations large and small.

problem statement

- Voting at home would mean Elections could not ensure voters were able to vote in private and free of intimidation.
- While some experts say we have the technology to make it secure, there have been instances of security breaches in online voting systems. If a security breach did occur it could mean an entire election result would be thrown out.

Algorithm

Face Dataset

1. Import packages
2. Set video capture width and height.
3. Set face identification id counter.
4. Set count for image captures.
5. Set face color and designation to store Pictures.
6. Count reaches and leaves all permissions.

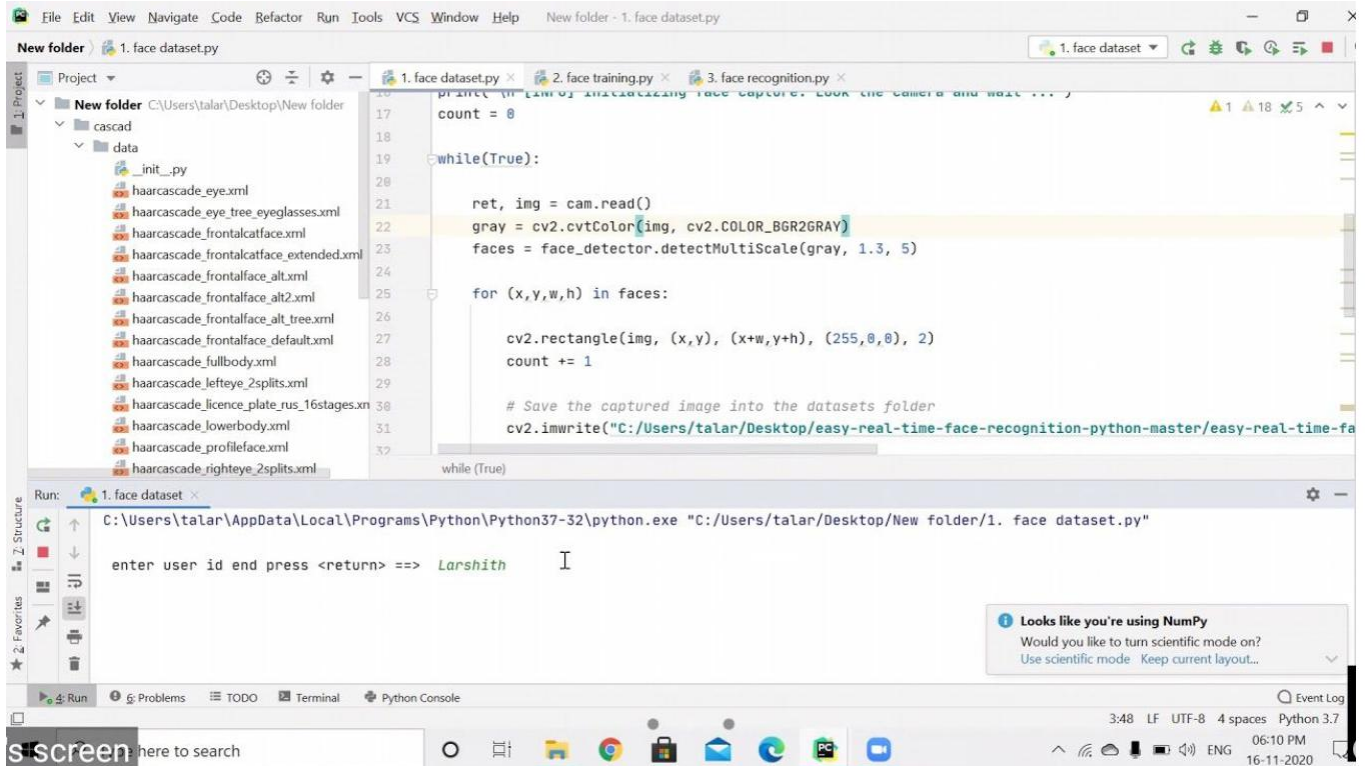
Face Training

1. Import package Pillow (PIL).
2. Locate Images database.
3. Convert the image into grayscale .
4. Store grayscale into .yaml format to analyze.

Face Recognition

1. Import package CV2 ,numpy.
2. Initiate id counter, the number of persons you want to include
3. Load .yaml file to read grayscale.
4. Capture face width and height and convert grayscale.
5. Compare grayscale with face dataset.
6. Generate score and check criteria reaches.
7. Release camera permissions .

Output



```
File Edit View Navigate Code Refactor Run Tools VCS Window Help New folder - 1. face dataset.py

New folder 1. face dataset.py

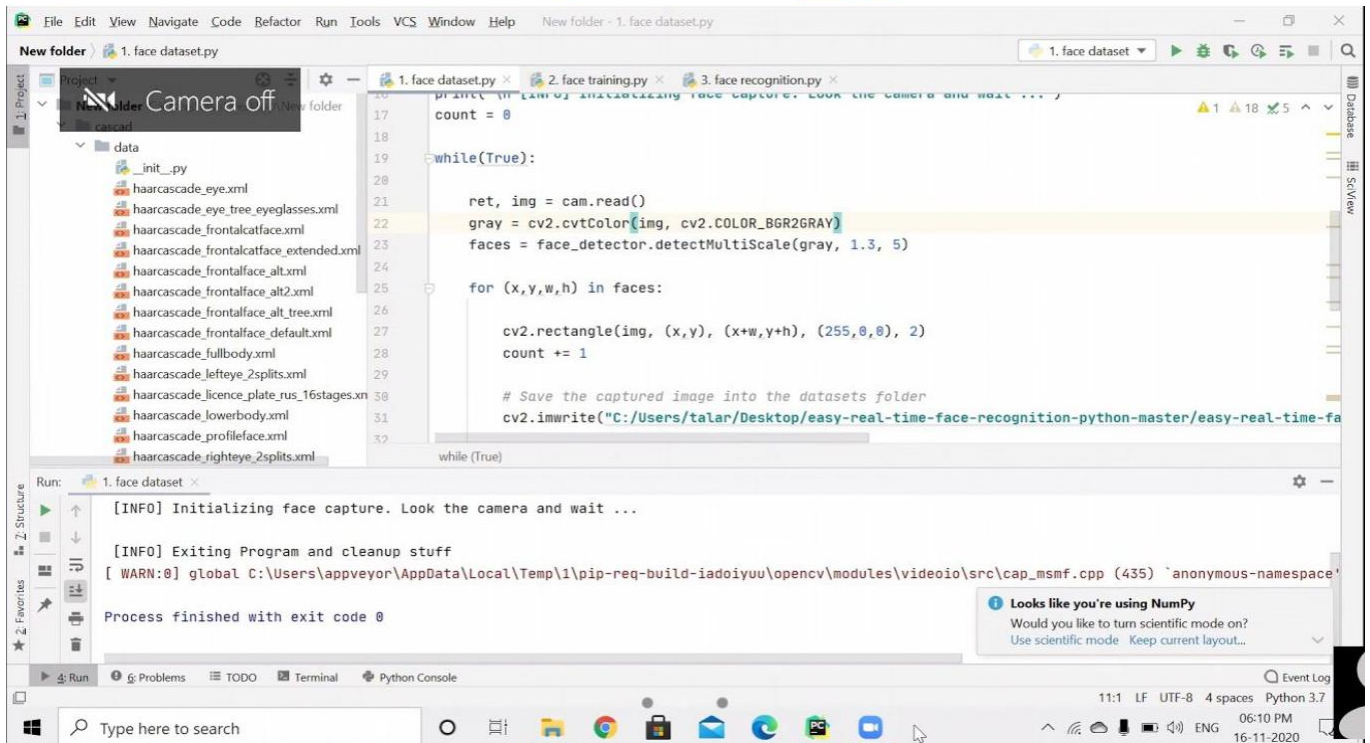
Project
  New folder C:\Users\talar\Desktop\New folder
    cascaded
      data
        _init_.py
        haarcascade_eye.xml
        haarcascade_eye_tree_eyeglasses.xml
        haarcascade_frontalcatface.xml
        haarcascade_frontalcatface_extended.xml
        haarcascade_frontalface_alt.xml
        haarcascade_frontalface_alt2.xml
        haarcascade_frontalface_alt_tree.xml
        haarcascade_frontalface_default.xml
        haarcascade_fullbody.xml
        haarcascade_lefteye_2splits.xml
        haarcascade_licence_plate_rus_16stages.xml
        haarcascade_lowerbody.xml
        haarcascade_profileface.xml
        haarcascade_righteye_2splits.xml

1. face dataset.py
17 print("INFO: Initializing face capture. Look the camera and wait ...")
18 count = 0
19 while(True):
20
21     ret, img = cam.read()
22     gray = cv2.cvtColor(img, cv2.COLOR_BGR2GRAY)
23     faces = face_detector.detectMultiScale(gray, 1.3, 5)
24
25     for (x,y,w,h) in faces:
26
27         cv2.rectangle(img, (x,y), (x+w,y+h), (255,0,0), 2)
28         count += 1
29
30         # Save the captured image into the datasets folder
31         cv2.imwrite("C:/Users/talar/Desktop/easy-real-time-face-recognition-python-master/easy-real-time-fa
32
while (True)

Run: 1. face dataset
C:\Users\talar\AppData\Local\Programs\Python\Python37-32\python.exe "C:/Users/talar/Desktop/New folder/1. face dataset.py"

enter user id end press <return> ==> Larshith

Looks like you're using NumPy
Would you like to turn scientific mode on?
Use scientific mode Keep current layout...
```



```
File Edit View Navigate Code Refactor Run Tools VCS Window Help New folder - 1. face dataset.py

New folder 1. face dataset.py

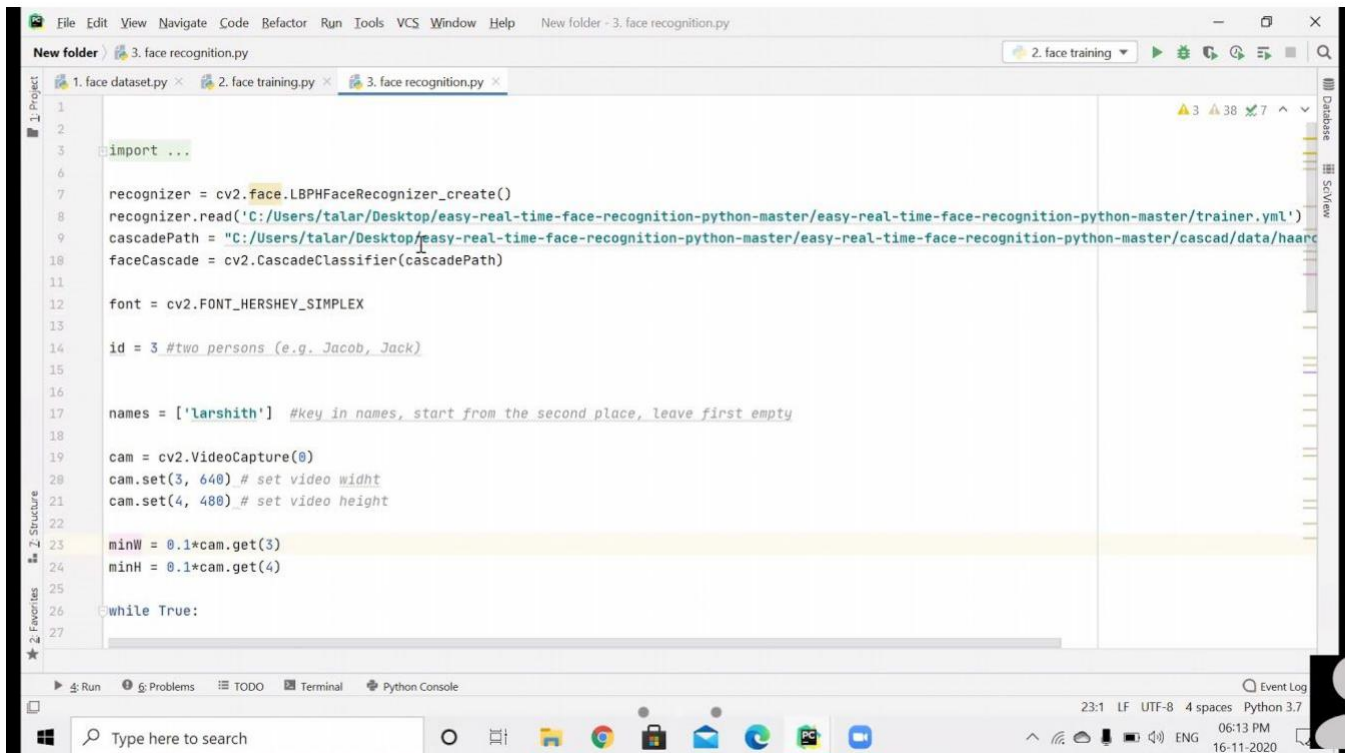
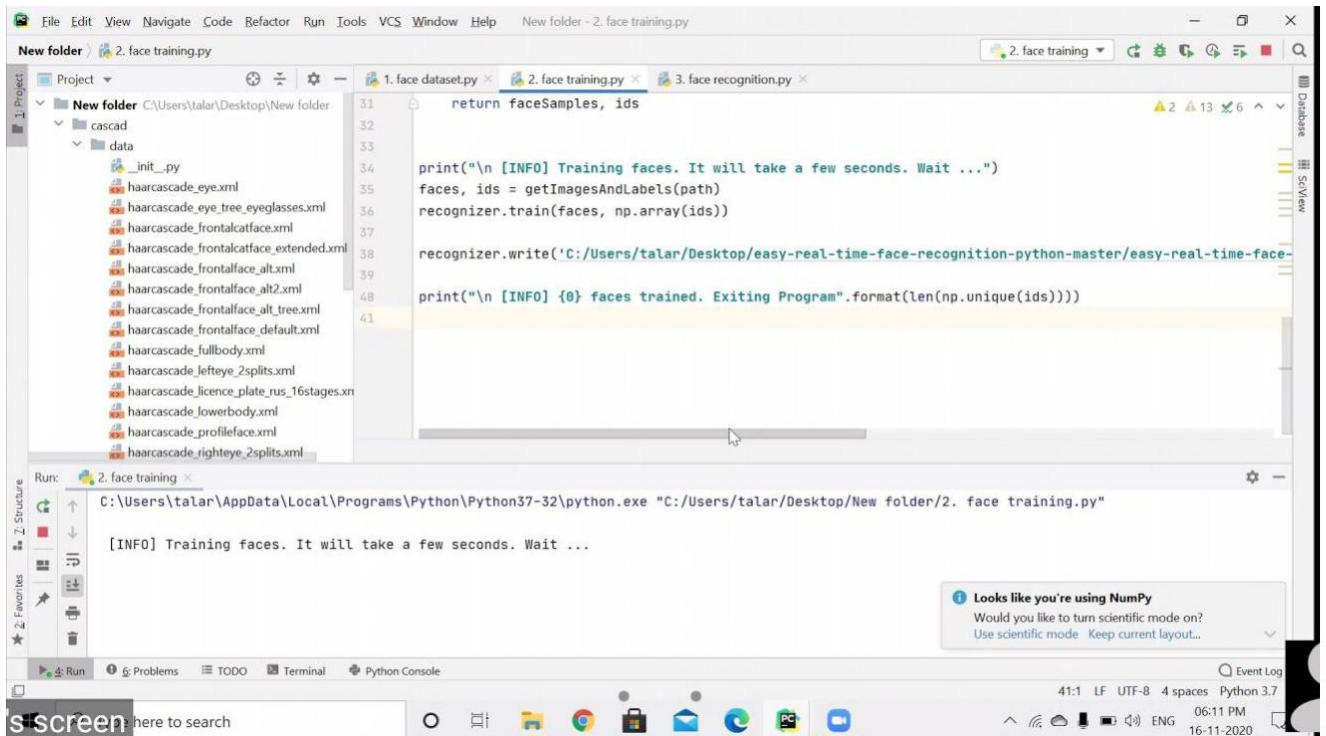
Project
  New folder Camera off
    cascaded
      data
        _init_.py
        haarcascade_eye.xml
        haarcascade_eye_tree_eyeglasses.xml
        haarcascade_frontalcatface.xml
        haarcascade_frontalcatface_extended.xml
        haarcascade_frontalface_alt.xml
        haarcascade_frontalface_alt2.xml
        haarcascade_frontalface_alt_tree.xml
        haarcascade_frontalface_default.xml
        haarcascade_fullbody.xml
        haarcascade_lefteye_2splits.xml
        haarcascade_licence_plate_rus_16stages.xml
        haarcascade_lowerbody.xml
        haarcascade_profileface.xml
        haarcascade_righteye_2splits.xml

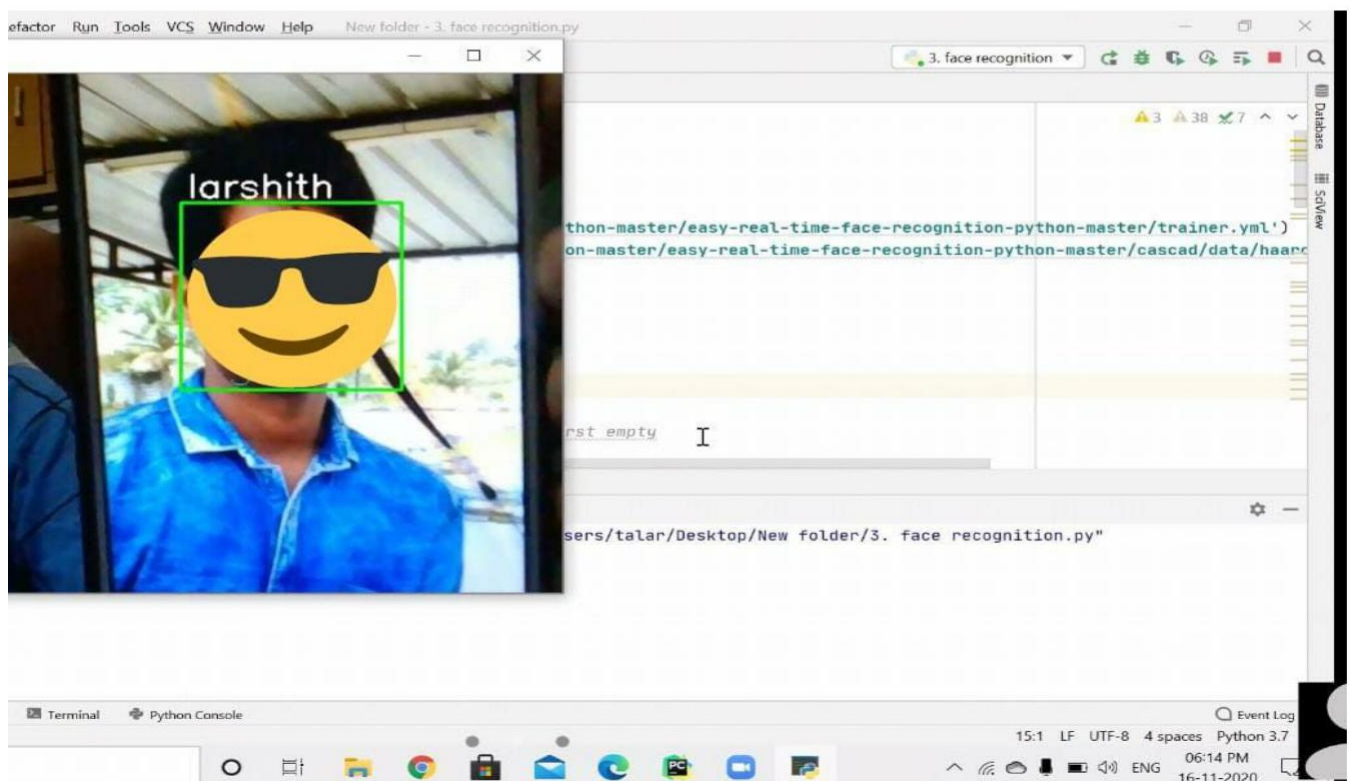
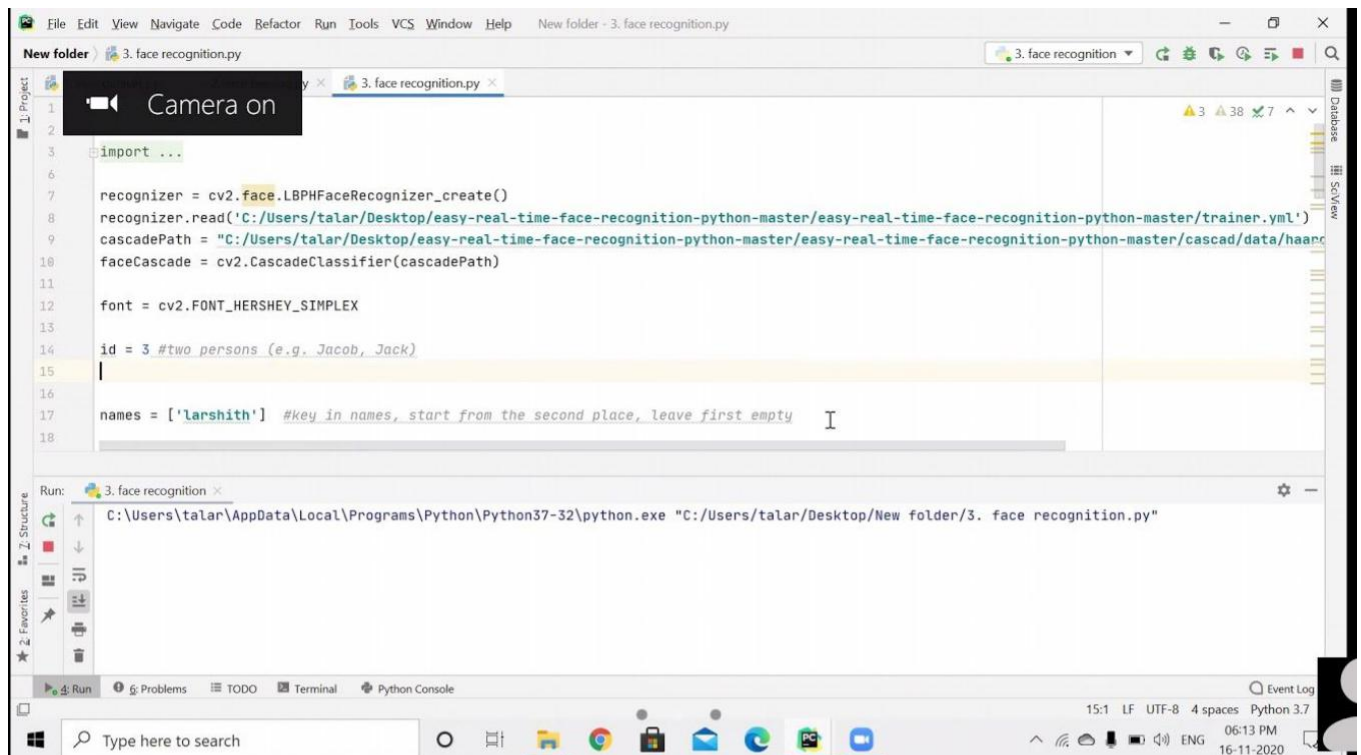
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23     faces = face_detector.detectMultiScale(gray, 1.3, 5)
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25     for (x,y,w,h) in faces:
26
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32
while (True)

Run: 1. face dataset
[INFO] Initializing face capture. Look the camera and wait ...

[INFO] Exiting Program and cleanup stuff
[ WARN:0] global C:\Users\appveyor\AppData\Local\Temp\1\pip-req-build-iadoiyuu\opencv\modules\videoio\src\cap_msmf.cpp (435) `anonymous-namespace'
Process finished with exit code 0

Looks like you're using NumPy
Would you like to turn scientific mode on?
Use scientific mode Keep current layout...
```





Code Link :

<https://drive.google.com/drive/folders/12nGL7tG0oQNymIFI9Odc8kEfVe08IJhP?usp=sharing>