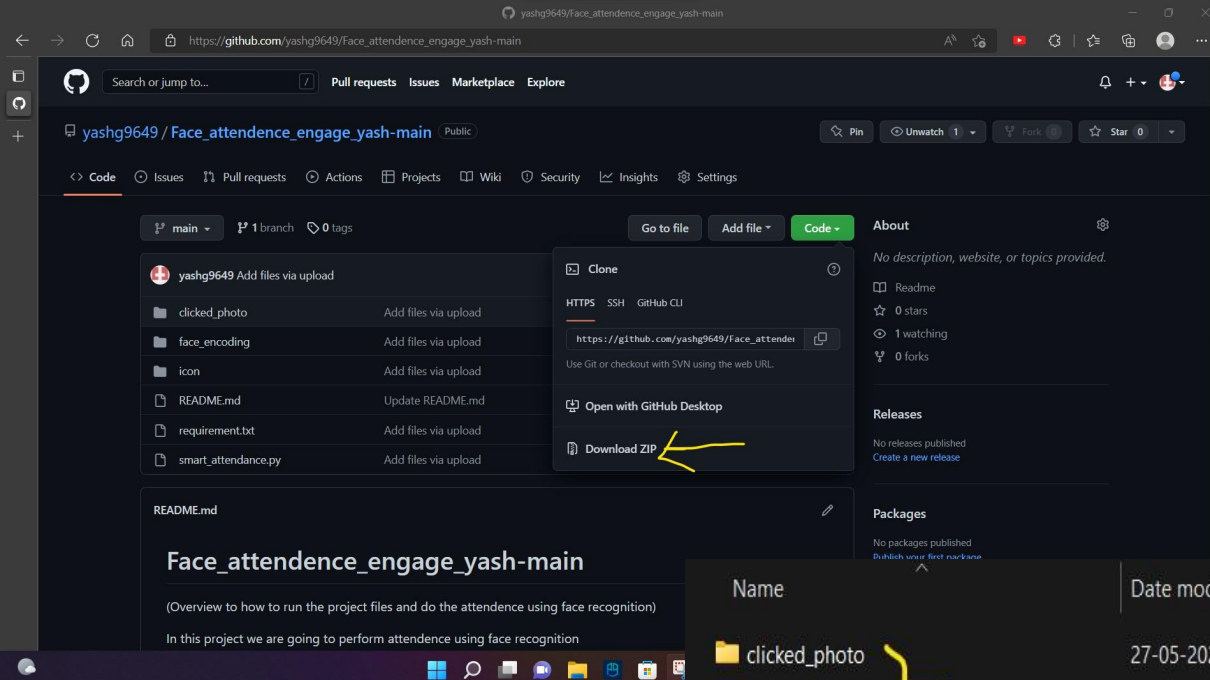# FACE RECOGNITION

ATTENDANCE SYSTEM

Engage 2022

PRESENTATION BY:
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1) Download the zip file from github

2) delete the photo.txt file from clicked_photo folder
And encode photo.txt file from face_encoding folder

Note - Install python and pip in the same folder which contain git file.


```
Command Prompt

Microsoft Windows [Version 10.0.22000.675]
(c) Microsoft Corporation. All rights reserved.

C:\Users\yash>cd engage\Face_attendence_engage_yash-main\Face_attendence_engage_yash-main

C:\Users\yash\engage\Face_attendence_engage_yash-main\Face_attendence_engage_yash-main>pip install -r requirement.txt
Requirement already satisfied: click==8.1.3 in d:\lib\site-packages (from -r requirement.txt (line 1)) (8.1.3)
Requirement already satisfied: cmake==3.22.4 in d:\lib\site-packages (from -r requirement.txt (line 2)) (3.22.4)
Requirement already satisfied: colorama==0.4.4 in d:\lib\site-packages (from -r requirement.txt (line 3)) (0.4.4)
Requirement already satisfied: comtypes==1.1.11 in d:\lib\site-packages (from -r requirement.txt (line 4)) (1.1.11)
Requirement already satisfied: dlib==19.24.0 in d:\lib\site-packages (from -r requirement.txt (line 5)) (19.24.0)
Requirement already satisfied: face-recognition==1.3.0 in d:\lib\site-packages (from -r requirement.txt (line 6)) (1.3.0)
Requirement already satisfied: face-recognition-models==0.3.0 in d:\lib\site-packages (from -r requirement.txt (line 7)) (0.3.0)
Requirement already satisfied: numpy==1.22.3 in d:\lib\site-packages (from -r requirement.txt (line 8)) (1.22.3)
Requirement already satisfied: opencv-python==4.5.5.64 in d:\lib\site-packages (from -r requirement.txt (line 9)) (4.5.5.64)
Requirement already satisfied: Pillow==9.1.0 in d:\lib\site-packages (from -r requirement.txt (line 10)) (9.1.0)
Requirement already satisfied: pypiwin32==223 in d:\lib\site-packages (from -r requirement.txt (line 11)) (223)
Requirement already satisfied: pyttsx3==2.90 in d:\lib\site-packages (from -r requirement.txt (line 12)) (2.90)
Requirement already satisfied: pywin32==304 in d:\lib\site-packages (from -r requirement.txt (line 13)) (304)

C:\Users\yash\engage\Face_attendence_engage_yash-main\Face_attendence_engage_yash-main>python smart_attendance.py
```
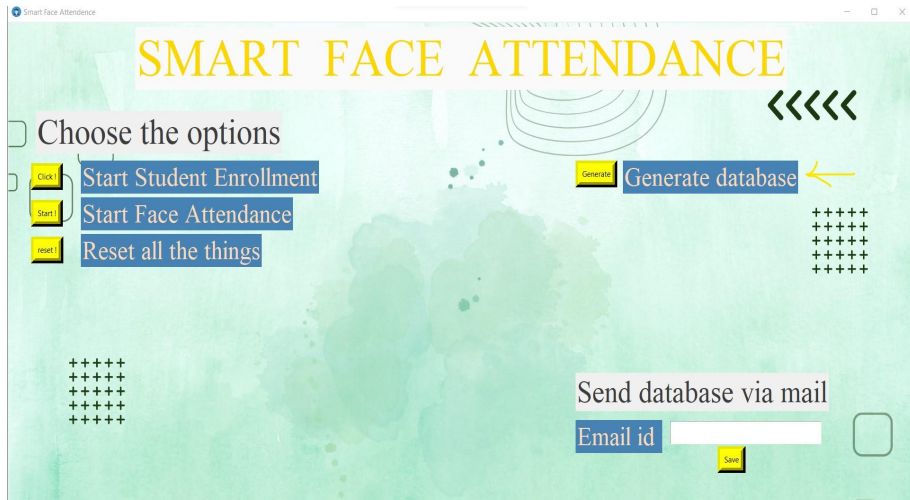
3) Now open the command prompt , go into the folder which contain smart_attendance python file using cd command. After then to install the packages from requirement.txt run the command 'pip install -r requirement.txt' .

4) Now run the python file using command 'python smart_attendance.py'.

'We can change the password from line 378 in smart_attendance.py file'

Here I added the feature of password so that only authority has the access to create the database.
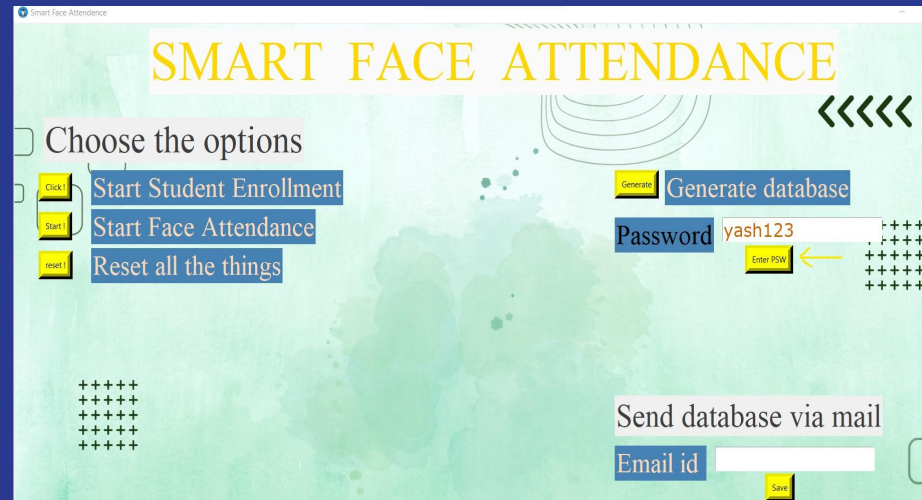
5) After running the python file, showed window will open.
First generate the database (using password - 'yash123')   for storing the student data and attendance report.
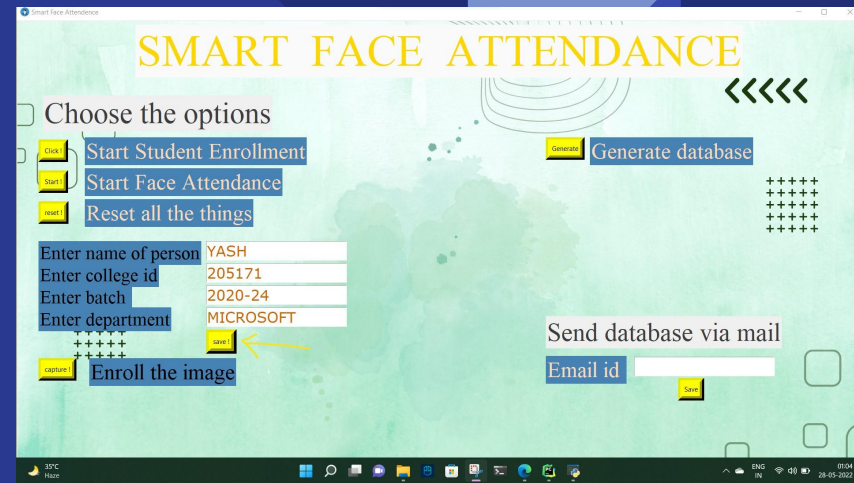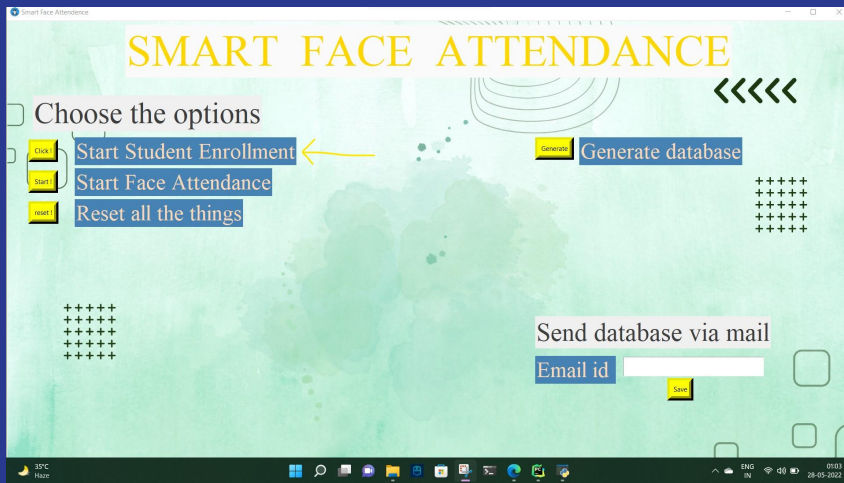
6) Now enroll the student face and data using 'Start Student Enrollment' button.

Now we can enter the students detail.
Here I added the feature we can move from one filling box to another using 'up' and 'down' arrow key.
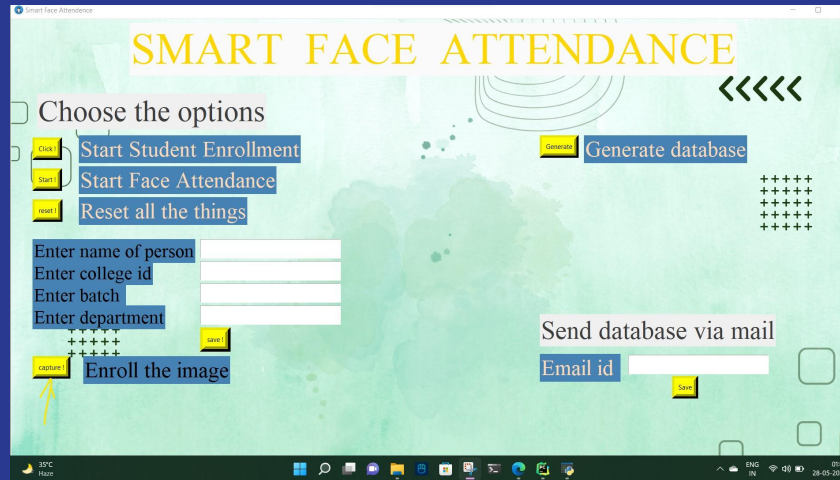
7) After clicking the 'Save' button click 'Capture' to save the image.

```
SELECT * FROM 'student_table' LIMIT 0,30
```

college_id	name	batch	department
205171	YASH	2020-24	MICROSOFT

```
SELECT * FROM 'present_student_table' LIMIT 0,30
```

college_id	name	present_date_time
205171	YASH	29-05-2022 06:54PM

Now I can verify photo enrollment in 'clicked_photo' and 'face_encoding' folder
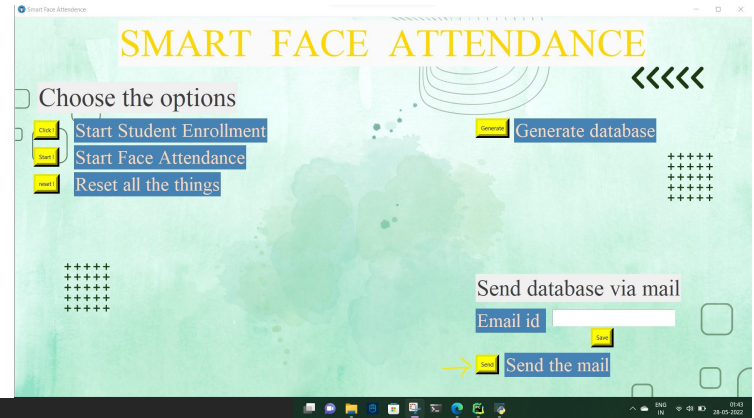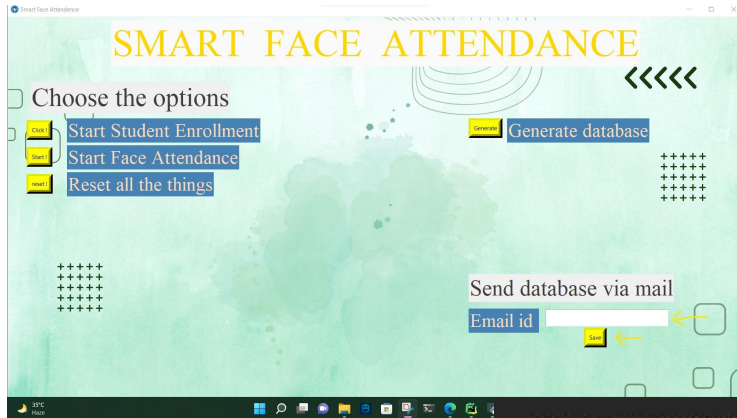
8) After enrollment of every student data, we can start the attendance.
    Click 'Start Face Attendance'. As we can see in the last photo it showing the name (one time only) on the video. Now we can see the student logging time in the database table 'present_student_table'.
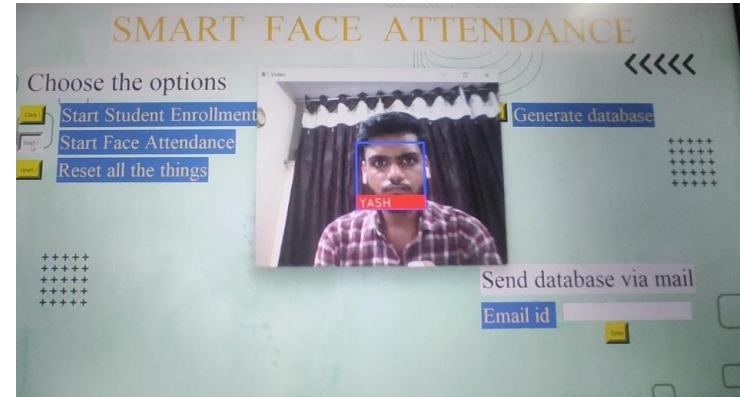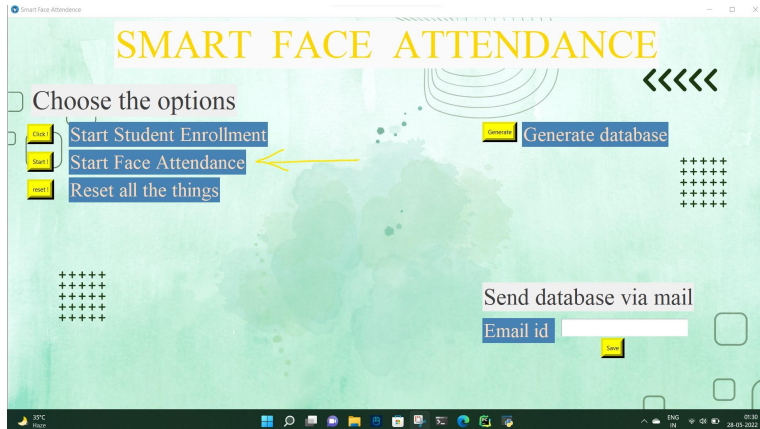
I added one more feature of sending the database to any person by mail

For now the mail is send by id - 'ygarg042005@gmail.com' we can change it from line 57, 79 from 'smart_attendance.py'.