

AI Advance Internship

ClassConnect - App Manual

FACE RECOGNITION - ATTENDANCE
MARKING SYSTEM

By Saanvi Chouraria



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MY INTERNSHIP JOURNEY

This Internship journey started on 22nd December 2023 with the Orientation session. I have completed this successfully and presenting my Final Project. It has been a great learning experience where I explored and enhanced my Python skills, learnt Tkinter, new libraries etc. The home assignments were very helpful when making my Final Project.

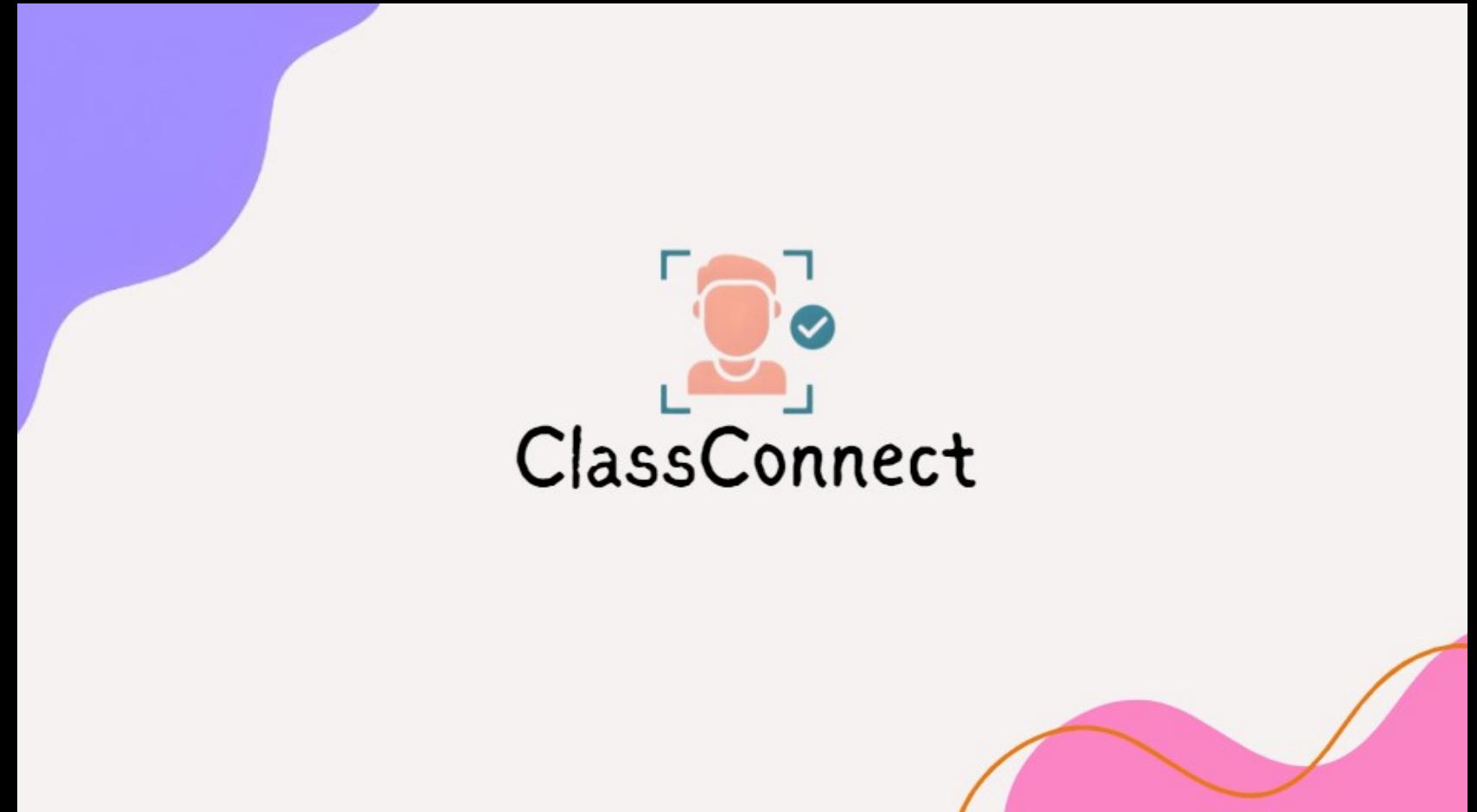




ABOUT CLASSCONNECT

ClassConnect is a Attendance Marking app that uses Face Recognition to identify and verify the students' face to record the attendance of the student.

It can be used by teachers to digitize the attendance rather than doing it manually.



FRONTEND AND BACKEND

The frontend, also known as GUI, has been designed using Tkinter which is a built-in Python library used for creating GUIs. It was simple to use and create buttons, labels and other GUI elements.

The backend has been developed on Jupyter Notebook using Python along with its builtin libraries such as pandas, numpy, opencv, os, face_recognition, dlib etc and some user defined functions.



HOW THE TECHNOLOGY WORKS

Extracting:

Extract the unique facial data from the images

Capturing:

First, capture the image and that can be done by scanning the existing images or using a camera.



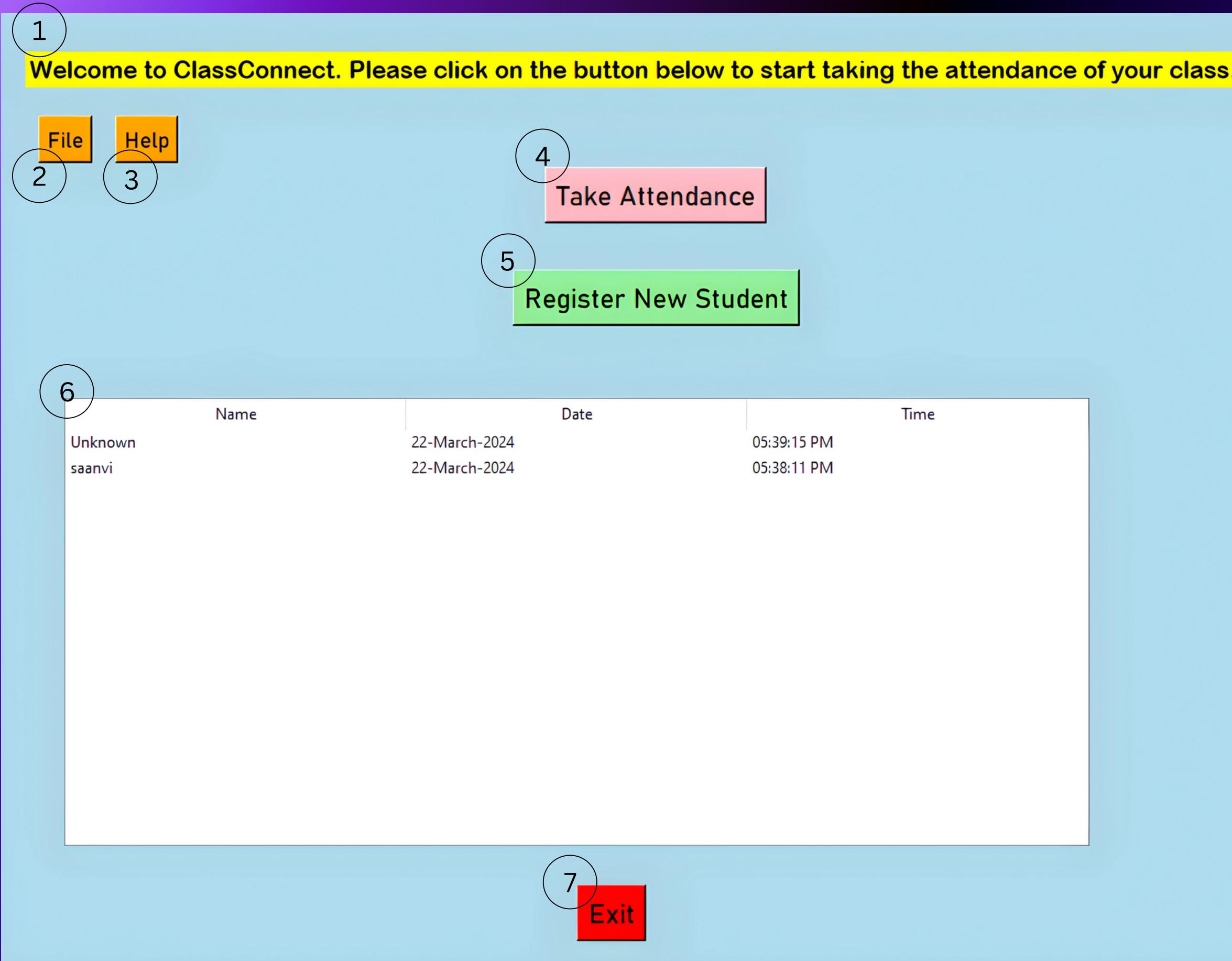
Comparing:

The data is then compared with the data.

Identify:

The model then decides whether the image matches any of the images in the dataset.

APP MANUAL



1. Label: Introduction and tells the user what to do.
2. Button: Opens a different window where the teacher can download the class attendance in the csv format and save it in their device.
3. Button: Opens a different window where teacher can understand how the app works.
4. Button: When the teacher clicks on the button, the webcam appears so that the model can take the students' attendance.
5. Button: Opens a different window and user has to write the name of new student to register. Once that is completed, a webcam will appear to capture the face of the new student.
6. Label: Captures the Name, Date and Time of the student.
7. Button: Closes the app.

GET IN TOUCH WITH ME

Whether you're curious about the features of the app or you have feedback, I am happy to answer any and all questions. You can reach out to me using the below information.



+971 55 512 2815



saanvichouraria@gmail.com



[savvy_saanvi](#)



Abu Dhabi, UAE



FEEDBACK

Kindly share your expert opinion on ClassConnect. I appreciate you to rate and review my app.



Dr. Ken Kahn



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