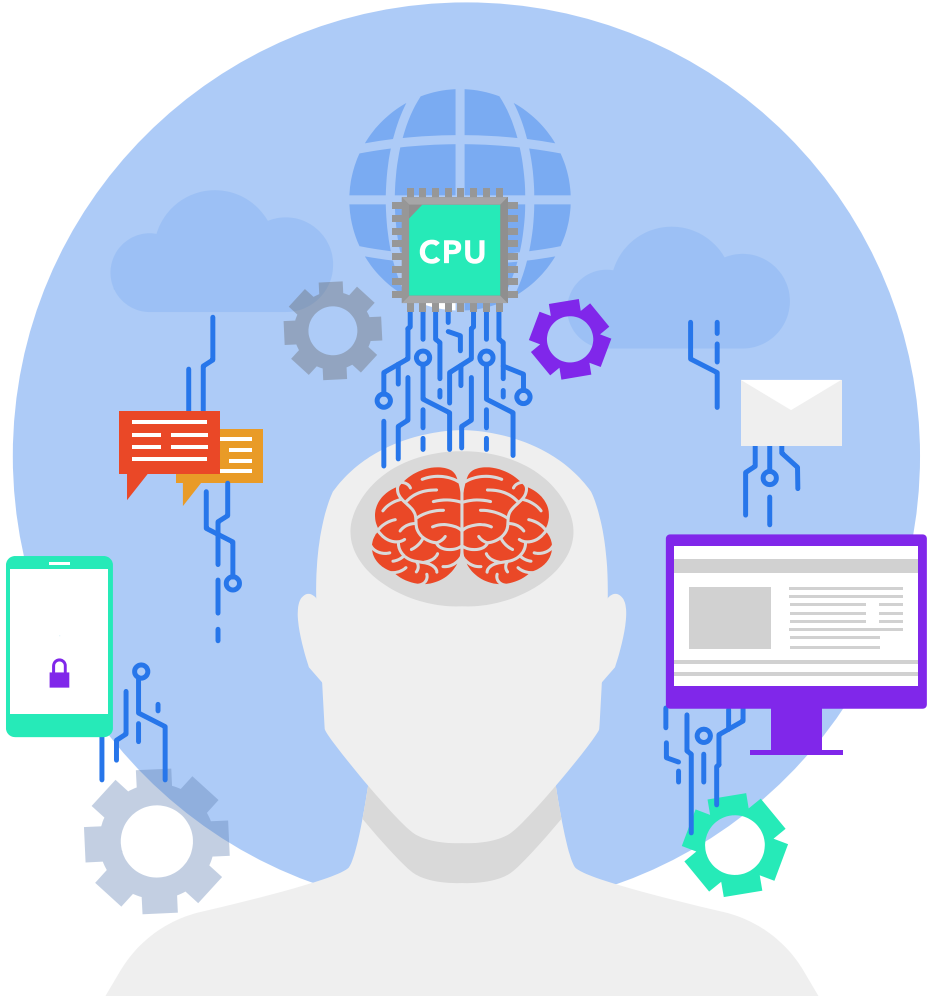

Face Recognition Attendance User Manual

Auhona Chakraborty

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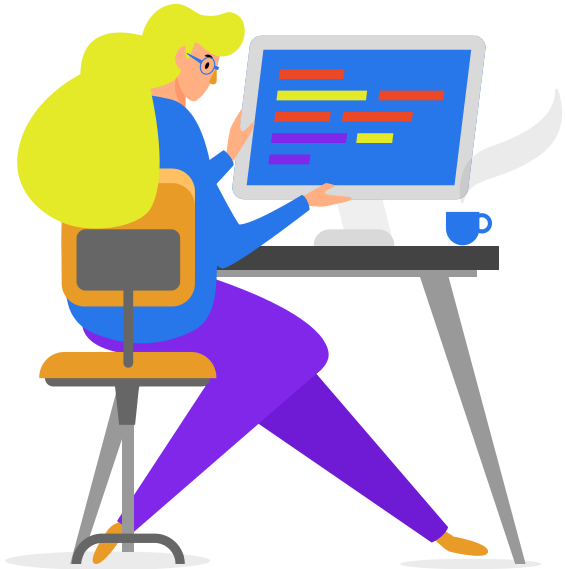

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Acknowledgements

I would like to express my special thanks and gratitude to:

- Mr.Avishek, Ms.Shivani and Ms.Smita for guiding me throughout the project and always providing me with their support in the sessions and through email.
- Professor Ken Kahn for giving me the opportunity where I can seek in-depth knowledge about artificial intelligence and programming.
- My parents for consistently encouraging me and solving small doubts.
- A big thank you for everyone who have helped me.

About me!

Creations:

01 Facial Emotion Recognition using Snap

02 Paint in the air using Computer Vision

03 Attendance Marking System using Python

04 Draw and Paint through your voice using Snap

Hobbies & Interests

Chess: lichess.org; auhona6 05

Karate: Brown Belt 06

Astronomy, game building & AI 07

Playing music instruments, abstract painting & Dancing: Bharatnatyam 08

Try “Auhona Chakraborty” in YouTube to find more

Rockstar badges

And many others mentioned in emails!

The journey so far...

Mentoring Sessions

01

The mentoring sessions have been really insightful for me and I got to revise and learn many concepts.

Badges

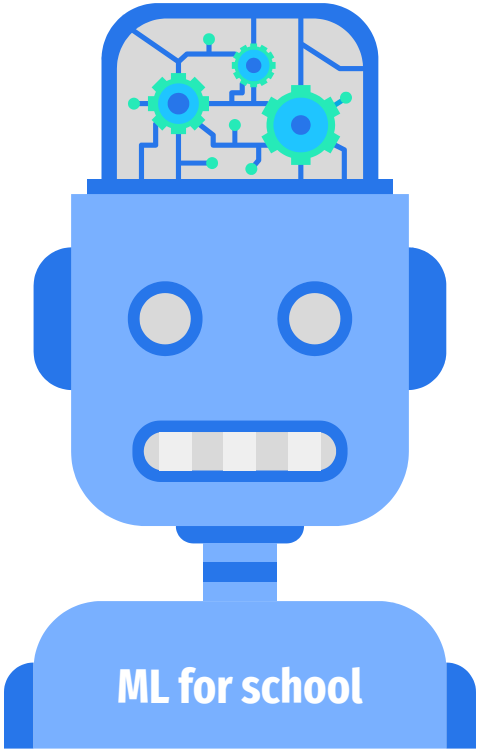
03

Clevered has introduced delightful badges to exhibit efforts and till date, I have received 13 badges.

Home assignments

05

The home assignments have assisted me a lot to work independently and gain more knowledge.



My Internmates

02

My Internmates have been really supportive and obliging throughout the journey.

Programming

04

I really enjoyed programming and surpassed obstacles throughout my project because of my mentors and parents.

The Overall Journey!

06

The overall journey has been really enjoyable and educative and I have learnt a range of new things.

About the App & Usages

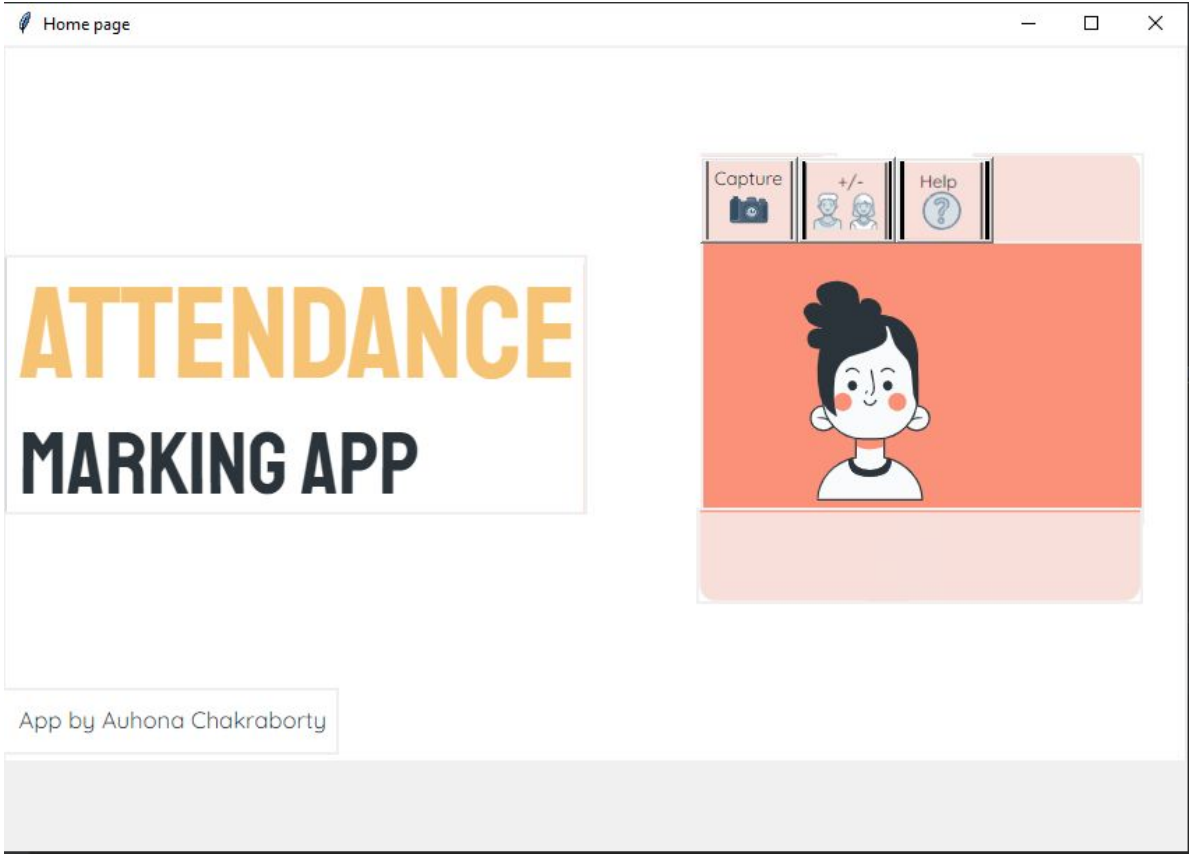
Introduction to the App

Facial recognition technology has become increasingly popular. Its popularity skyrocketed when Apple introduced Face ID instead of Touch ID for unlocking iPhones. The general way in which this app works is each user enrolls by taking a baseline picture of their face; ideally a clear picture in a well-lit environment. When it's time to clock in, the user captures photo of their face. The newly captured photo is compared to the baseline photo. Using machine learning, the face detection tool confirms whether the images match.

App's Main Menu

The App's Main Menu consists of a capture screen to capture images and mark attendance, a registration screen to register new user profiles and a help screen to do small amount of error handling for the user. In the registration screen, the user inserts their name, ID and clicks on the take image for registration. On the camera/capture screen, there is a clock in and clock out button to take attendance. Clock in is used for entering and clock out for exiting. **Q must be clicked to stop image capturing.**

Option Names

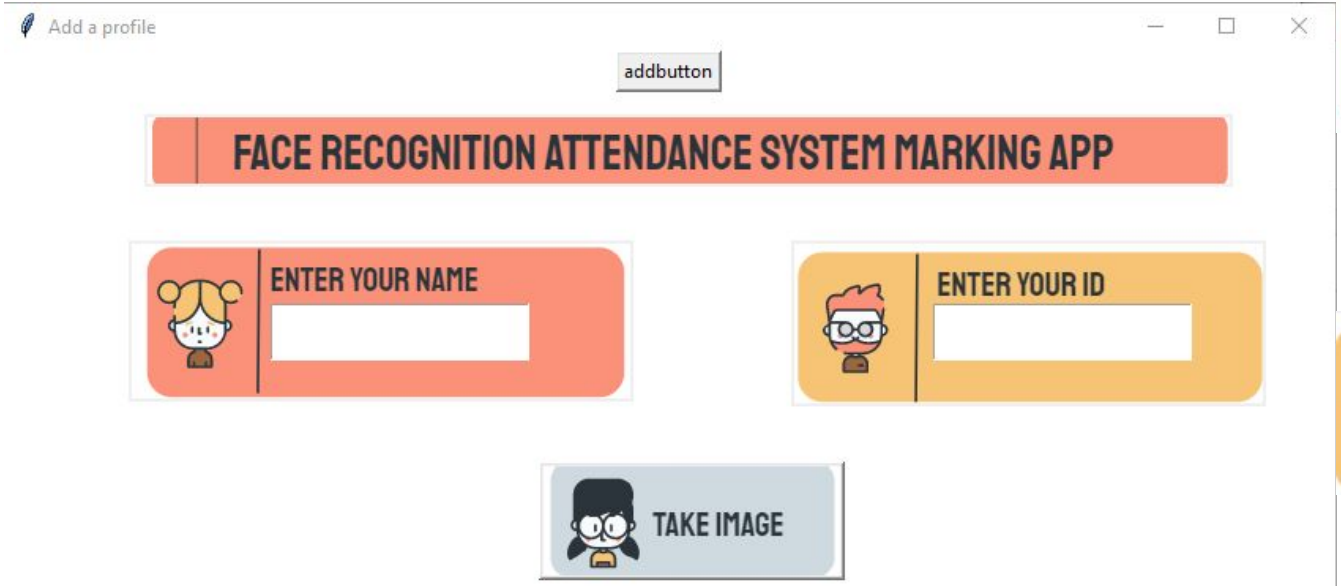


Capture button is used for the actual attendance and storing it in csv file.

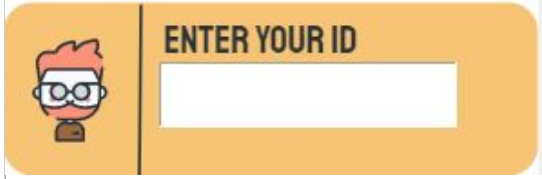
Registry button is used to add new profiles to the database and later used for face recognition

Help button is for helping users out with minor problems. Essentially it is used for error handling.

Option Names Continued...

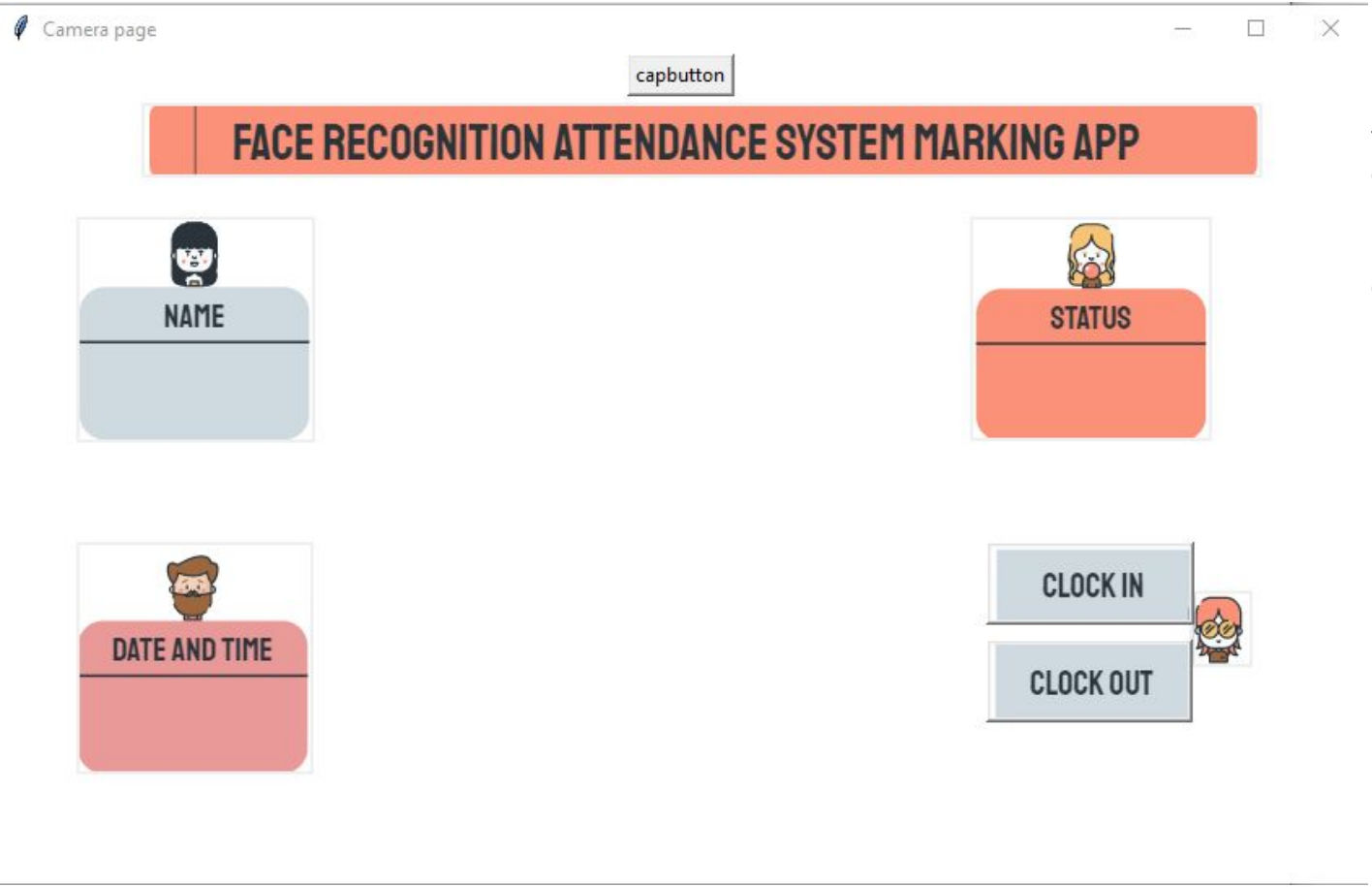


This is a text box for users to enter their name which will saved as the file name of their picture.

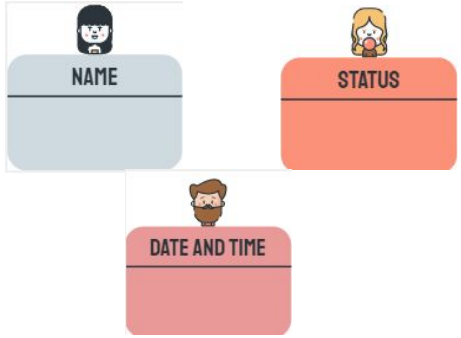


This is a text box for users to ender their ID/roll numbers and it is saved along with their names

This button is for taking images and later used for recognition.



Clock in is used for the actual facial recognition where the live camera starts and saves the attendance in the csv file. Clock in is when the person enters and clock out is when the person leaves. Click q to stop capturing.



The name, status and date & time box is used to display the details of the user live.

Help Page

helpbutton

FACE RECOGNITION ATTENDANCE SYSTEM MARKING APP

STOP EVERYTHING?

Click home-screen and click the cross to close all screens

APP IS NOT WORKING?

Close all the other files and close the app to reopen

MODIFY BUTTON

This is just to edit an existing profile, not to add/remove

CAMERA NOT WORKING ?

Go to settings to see your app permissions or use an external webcam

MY NAME EXISTS

If your name exists and if still the computer is showing error contact fgams@gmail.com

ADD/REMOVE BUTTON

This button is to add a new profile or remove an existing profile by using names

The help page is to help the users for minor error handling and to let the users have a contact email to seek help from.

Contact Person

To contact about any issues faced about this product contact fgmas@gmail.com or chakrabortyatanu.78@gmail.com.
No copyrights allowed.
Kindly ask the developer for any developing purposes.
Thank you.

THANK
YOU