

Basic Details of the Team and Problem Statement

Problem Statement Title: Develop a smart Attendance Capturing system.

Team Name: Technosync

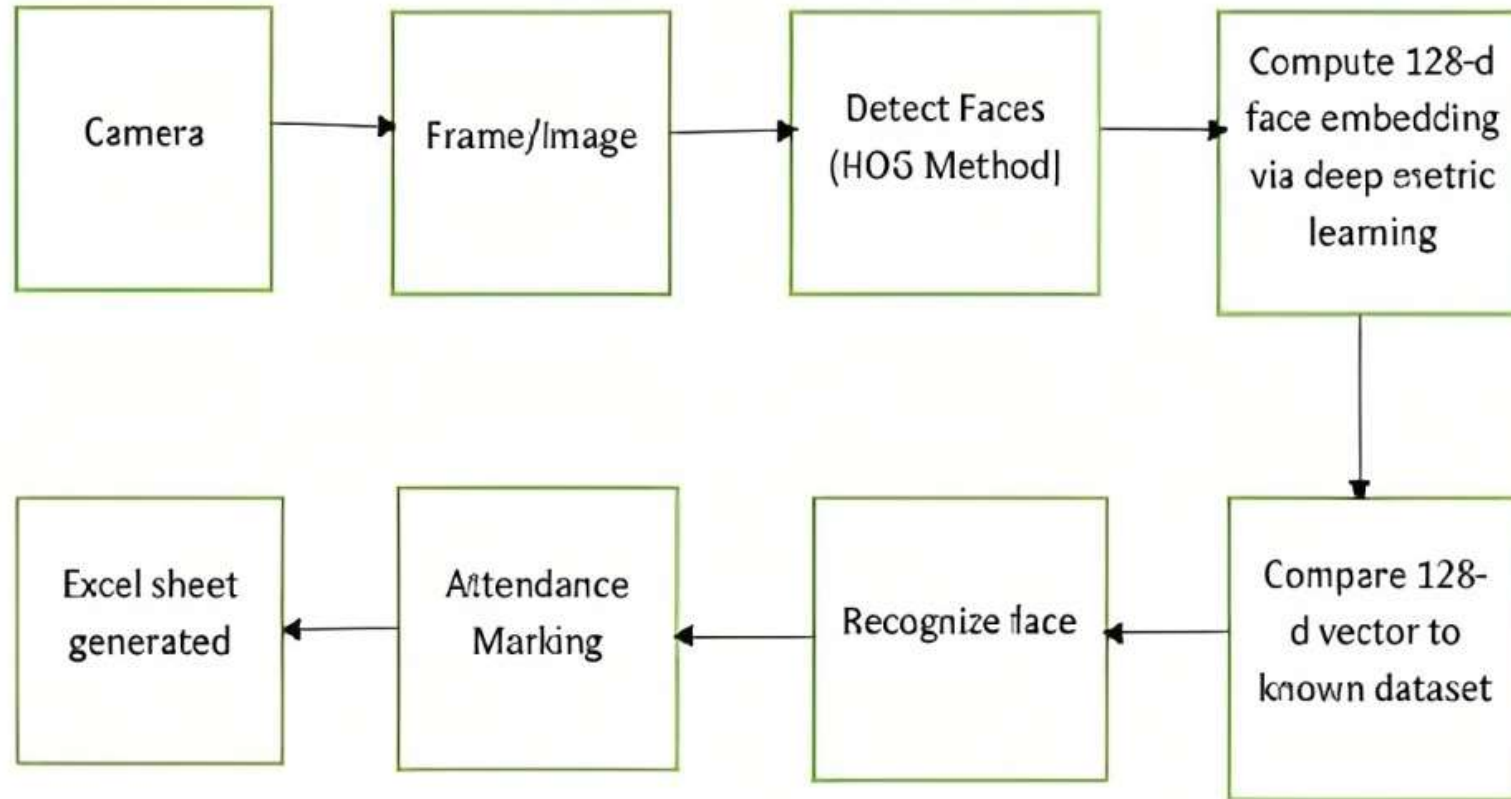
Team Leader Name: Charulatha N

Theme Name: Block chain & cyber security

Idea/Approach Details

- The mobile attendance system has been built to eliminate the time and effort wasted in taking attendances in schools and colleges. It also greatly reduces the amount of paper resources needed in attendance data management as we use spreadsheets to store data.
- Not only used in school and colleges but also due to our current life style is classified as before covid-19 and after covid-19. This project mainly focus on after covid-19. Before covid-19, Biometrics like fingerprint Sensor is used for security purpose and attendance, but after covid-19 directly contacting with these type of security devices is not recommended in public places. Hence this project is designed on high level security purpose.
- Our system is Smart and secure Attendance Capturing system, Which detect student/employee face and compare with the photo uploaded as data and capture their Name, date and the respective time they appeared.

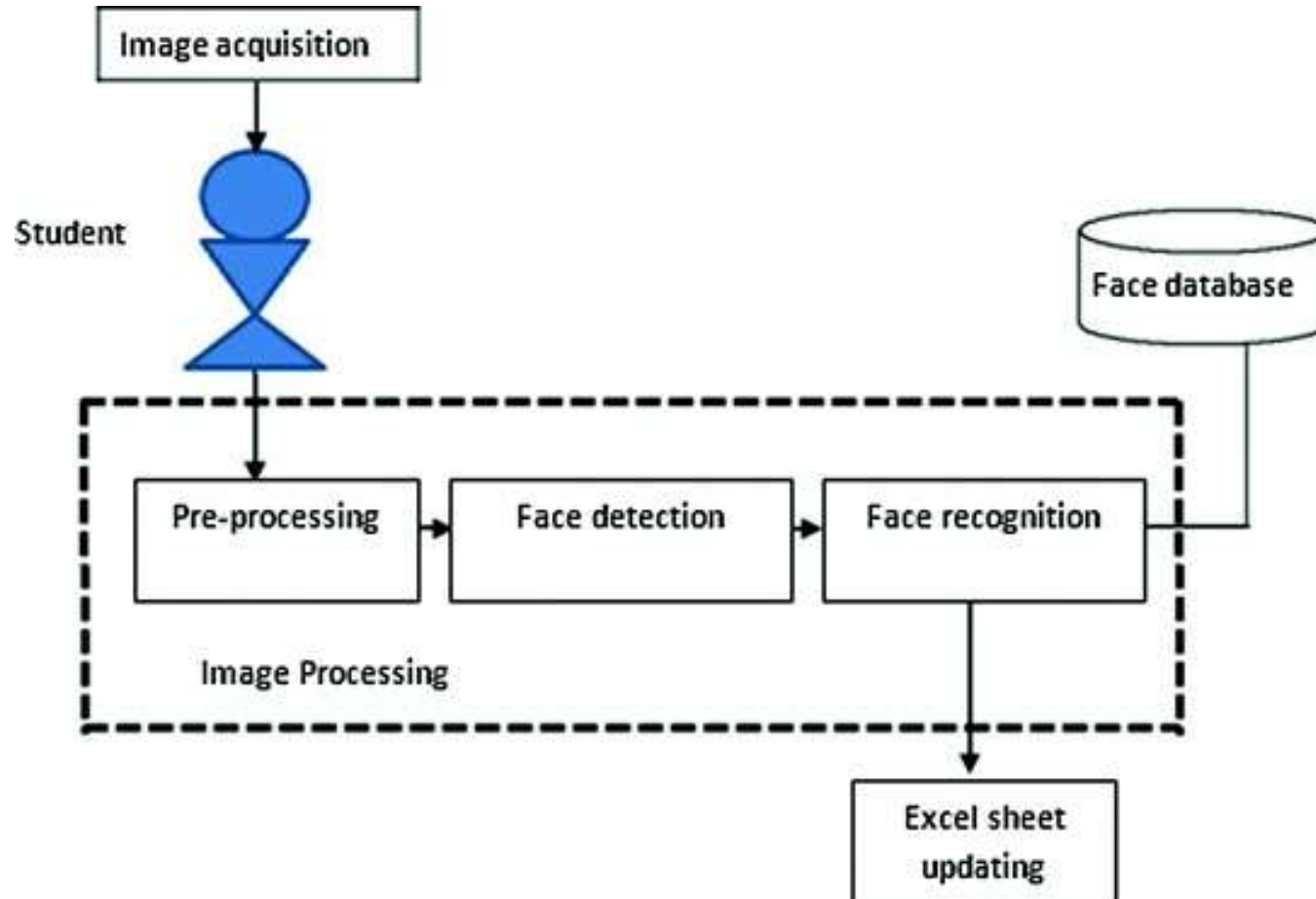
Add process flow chart or simulated image of prototype or any relevant image related to your idea



Describe your Technology stack here:

- Python 3.0
- OpenCV
- Face recognition
- CV2
- CSV
- Machine learning
- MS Excel
- JSON

Describe your Use Cases here



- **Education Institutions:** Schools, colleges, and universities can use face recognition for attendance management. Students' faces can be recognized as they enter the classroom, eliminating the need for manual roll call.
- **Corporate Offices:** Large organizations can implement face recognition for employee attendance tracking. This can streamline the process of clocking in and out, making it more efficient and reducing the chances of time fraud.
- **Healthcare Facilities:** Hospitals and clinics can use face recognition to monitor staff attendance and ensure that the right medical professionals are available when needed.
- **Prisons and Correctional Facilities:** Face recognition can be used to monitor inmate movements and count prisoners during headcounts.

Describe your Dependencies / Show stopper here

Dependencies:

- Schools
- Colleges
- Universities
- Corporate offices
- Hospitals and clinics
- Government offices
- Prisons and correctional facilities

Show stopper:

- Privacy concerns
- Accuracy and reliability
- Technical challenges
- Data security

Team Member Details

Team Leader Name: CHARULATHA N

Branch : B.TECH

Stream : IT

Year : II

Team Member 2 Name: AMALA MAHALAKSHMI P

Branch : B.TECH

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Team Member 3 Name: DEEPAK S

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Year : II

Team Member 4 Name: JEMIMA I

Branch : B.TECH

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