



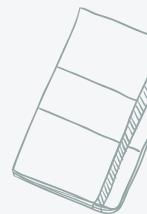




GROUP MEMBER

<u>Name</u>	<u>ID Number</u>
Abidur Rahman	142362004
Saimun Islam	153402316
Kamrul Islam	153402323
Sumva Zahan	153402315











OUTLINE:

- 2. Problem Statement
- 3. Objective
- 4. Proposed Solution
- 5. Result
- 6. Conclution
- 7. Future Work









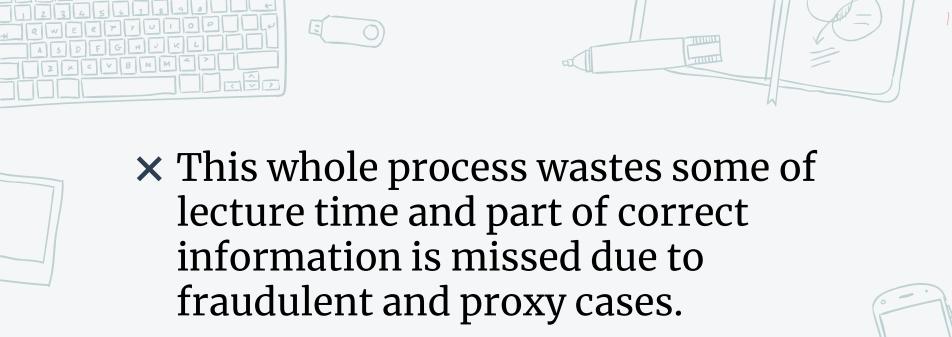
Traditionally attendance is marked manually by teachers and they must make sure correct attendance is marked for respective student.



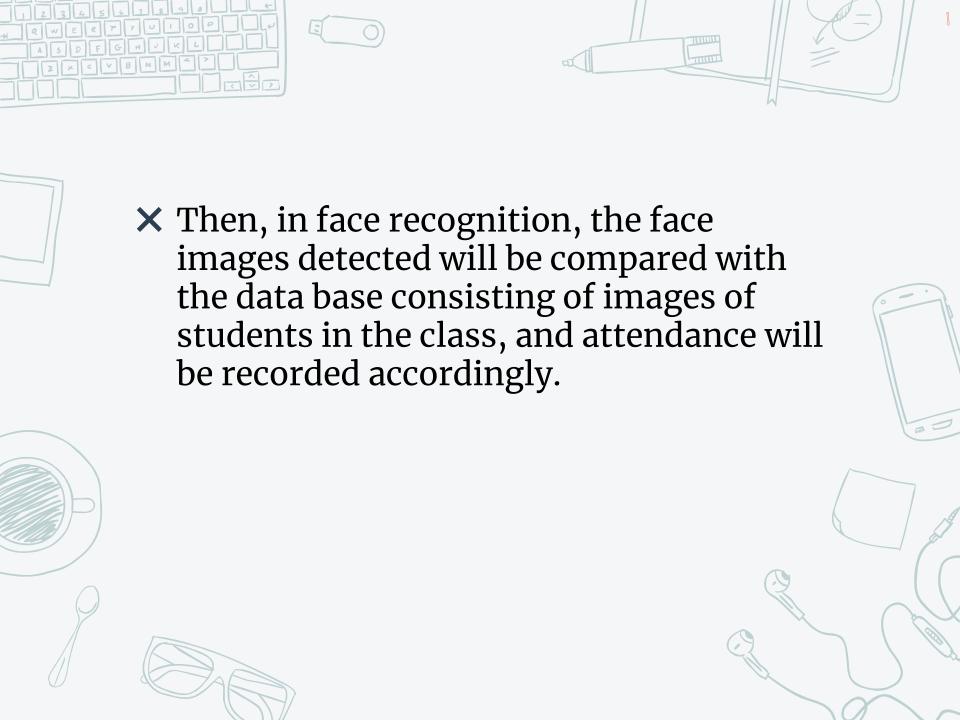








× In order to determine classroom attendance, face detection and face recognition are performed. Face detection is used to determine the location of the faces in the classroom image and extract sub images for each face.







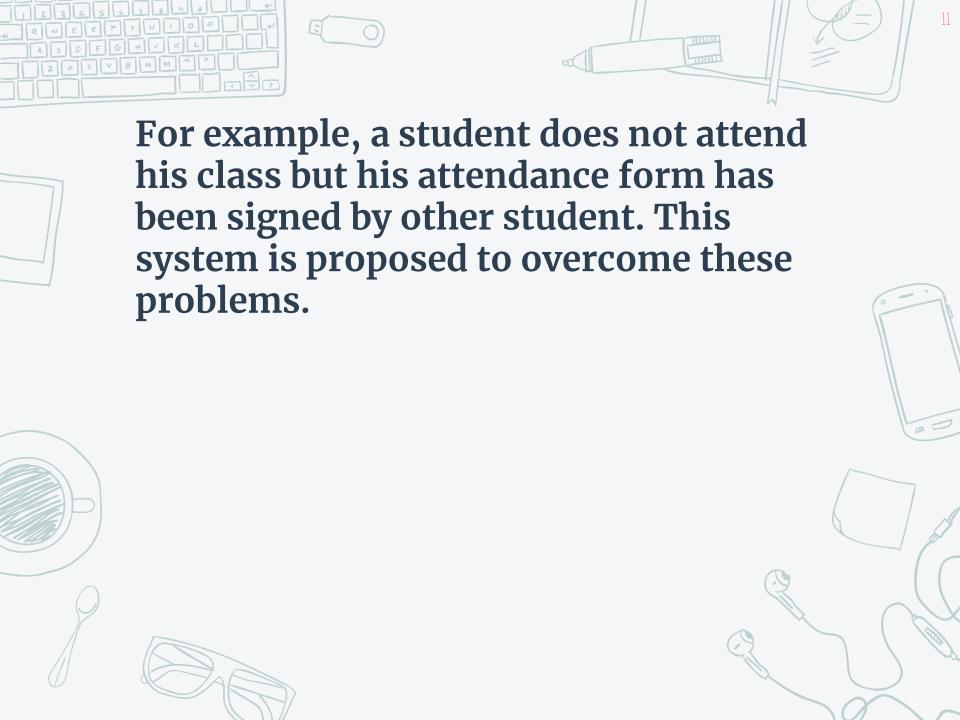
The various techniques for marking attendance are:

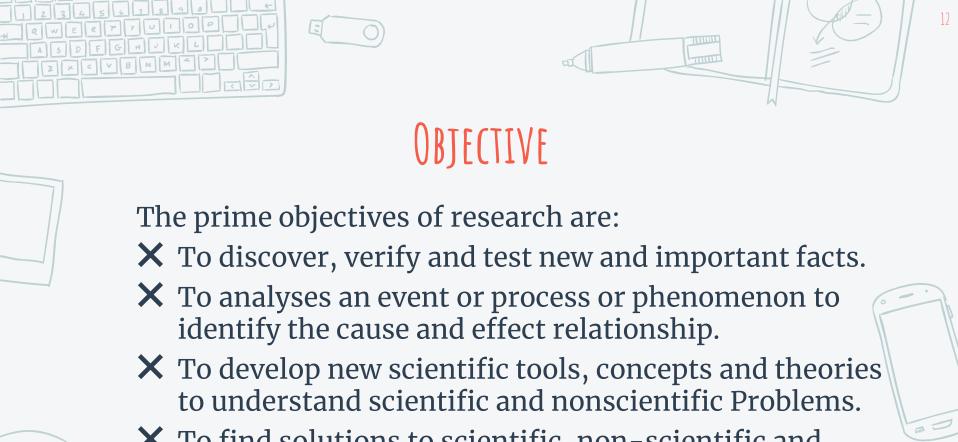
- Signature based System
- Fingerprint based System
- ❖Iris Recognition
- RFID based System
- Face Recognition





Daily student attendance in schools, colleges and institutes. It facilitates to access the attendance information of a particular student in a particular class. Some basic problems: This method is not flexible. **♦It's risk.** Losing the attendance sheet Unethical problem may be occurring such as cheating in signature.

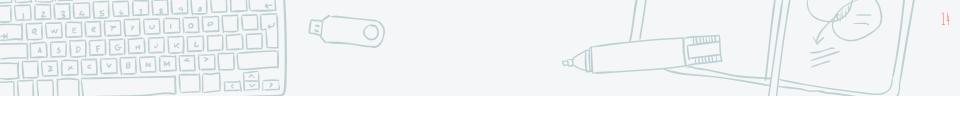




X To find solutions to scientific, non-scientific and social problems.



- It's built for automating the processing of attendance.
- It also enhances the speed of performing attendance task easily.
- ❖ After recognition, it will mark the attendance of the recognized student and update the attendance record.
- The admin will be able to print these record details afterward.



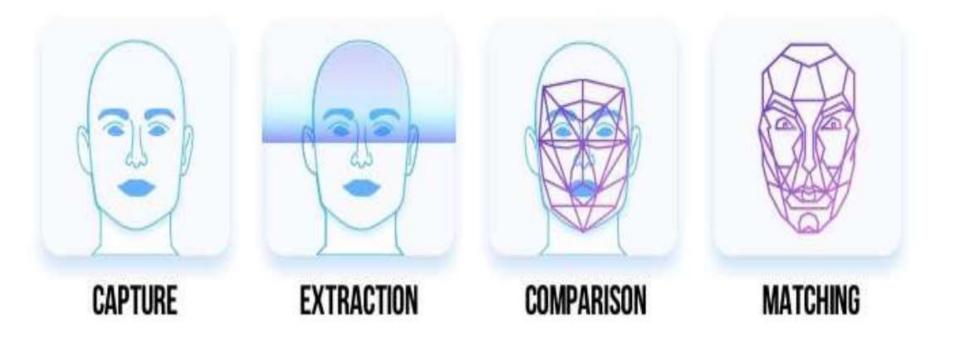


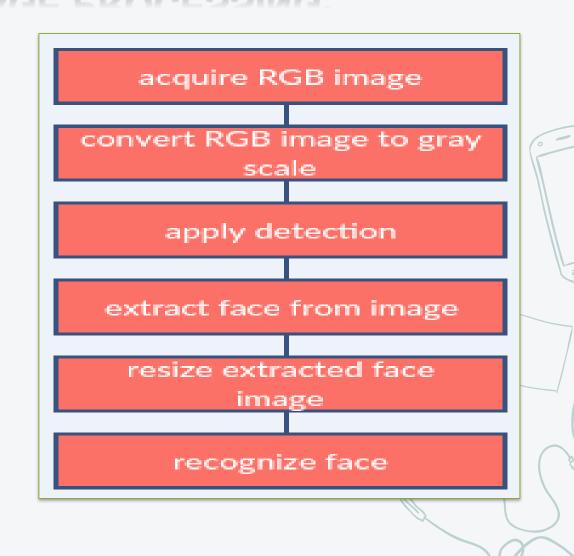








IMAGE PROCESSING:





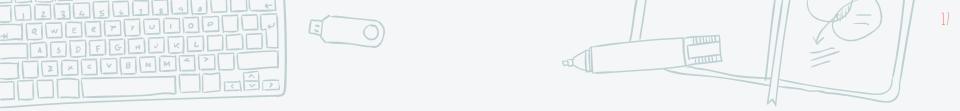


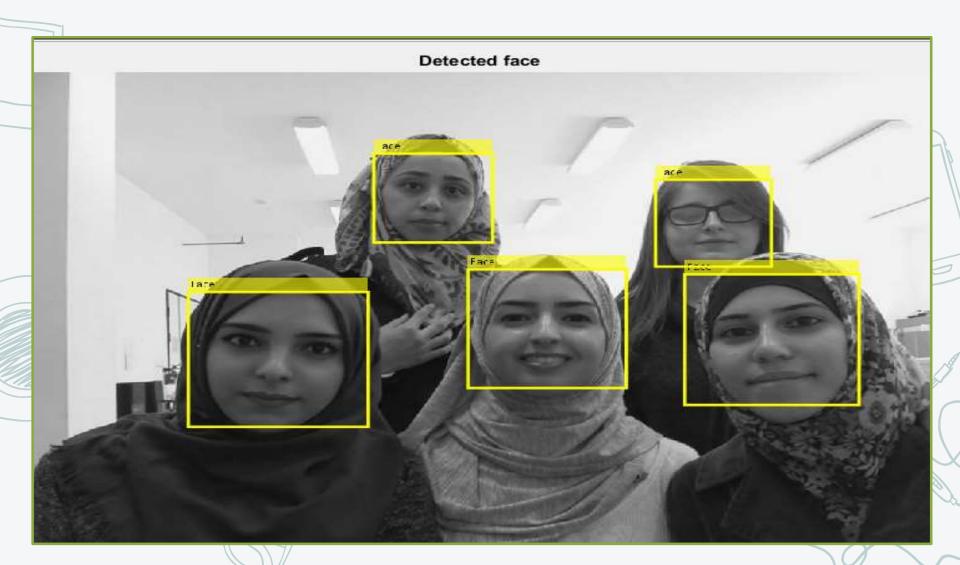
FACE DETECTION:

× Face detection is a computer technology used to identify human faces in digital images by determining the location of the faces in the image and extract sub images for each face.











In our project we have faced many of problems and we have overcome them:

- 1- Download Python and library for it on OpenCV.
- 2- Version of the OpenCV and Python.









CONCLUTION

× From our experiment, we noticed the face recognition was sensitive to face background, light, and head orientations. This technique described the accurate and efficient method of automatic attendance in the classroom which could replace the traditional method.





X An automatic attendance has many advantages, most of the existing systems are time consuming and require semi manual interference from lecturers, our system seeks to solve these issues by using face recognition in the process to save the time and labor. And No need for installing complex hardware for taking the attendance in classroom, all we need is a camera and laptop. We used algorithms that can detect and recognize faces in the image.

FUTURE WORK

× Automatic attendance system can be improved by increasing the number of features which can be extracted to increase accuracy of face recognition. Once the software is developed and tested properly, it could be improved to cover full institutions such as the faculty of engineering.





Thanks!

To All







