



STUDENT ATTEDENCE SYSTEM

BASED ON QR CODE SCANNER

Presented by:

Shwetank Gopnarayan(TU3S2223015)
Yameen Khan(TU3S2223010)
Rohan Khachane(TU3S2223017)

Guided by:

PROF. Mohini Misale



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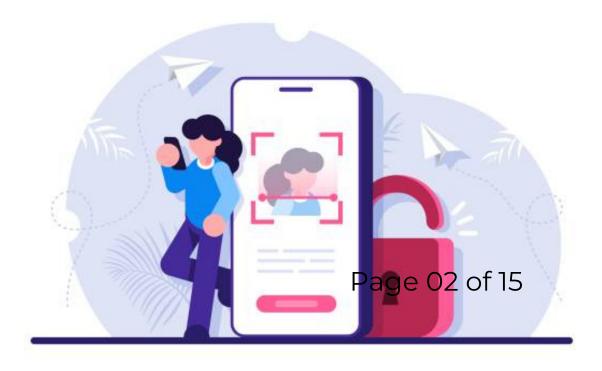
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INTRODUCTION

The most common difficulty that every teacher faces in the classroom is taking attendance of the students one by one in each and every class.

For the time being many automated systems have been proposed for taking student attendance

So here we had made a

Student Attendance System that is based on QR Code Scanner

Advantages

- Time-Saving For Your Workforce.
- Increased Efficiency and Capability.
- Cost Cutting And Saves
 Money.
 - Automated Time Tracking.
 - Easy To Manage Records.

PROBLEM STATEMENT

Student attendance is taken manually through the use of attendance sheets issued by department heads as part of the legislation in most learning institutions.

This approach is slow, time-consuming, and inconsistent as some students often sign up for their missing colleagues.

It also makes it difficult to track the attendance of individual students in a large classroom setting.

Objective:

In our work, we propose the design and implementation of a QR detection and detect students attending a lecture in the classroom and recognize their attendance by recognizing their Collage IDs.

Publisher

Research Gate

Author

Fadi Almasalha

Methodology

The Server Module generates an encrypted QR code with specific information to scan and record the attendence of the User

Advantage

Easy to use and user friendly, saves time and security is high

Publisher

P. IPCET-17 (2017)

Author

Visar Sheha

Methodology

Using HAAR classifier & computer vision algorithm to implement Face Recognition

Advantage

Achieve the goal of analyzing each method has overall system capacity throughput as well as accuracy

Problem

The Recognization rate is only 56%, having a problem to recognize student in year 3 or 4

Publisher

SSRN

Author

Arpankumar Patel

Methodology

used API to generate QR codes in our project. All the data is stored in the MYSQL database

Advantage

The system would be maintainable to a reasonable extent since there are not many hardware devices. The system is solely based on internet connectivity, and the database has to be maintained

Publisher

Researchgate (2020)

Author

Partha Chakraborty

Methodology

Used PCA algorithm for face recognition, EmguCV Library to process images

Advantage

Replaces the manual system with a simple, reliable, a cost-effective, timesaving automated system as it eliminates the stationary material and paperwork.

PROPOSED METHODOLOGY

Python Tkinter for GUI



Open CV for Camera



CSV to store data



PyZbar for QR Scan

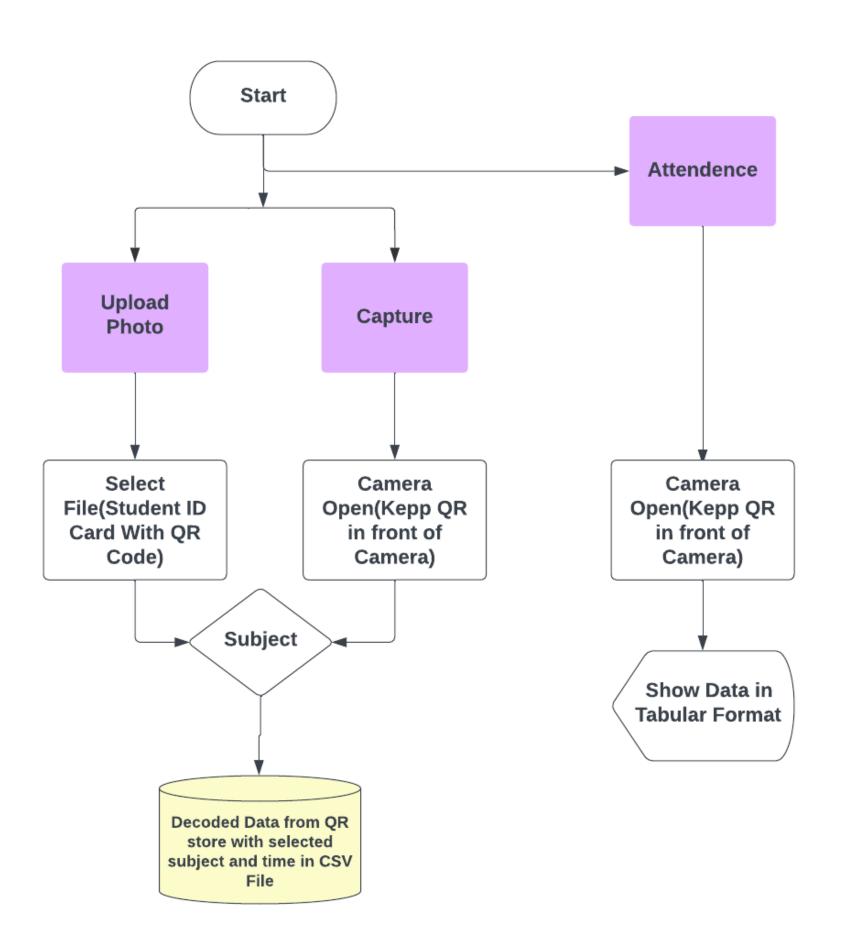


DESIGN AND IMPLEMENTATION

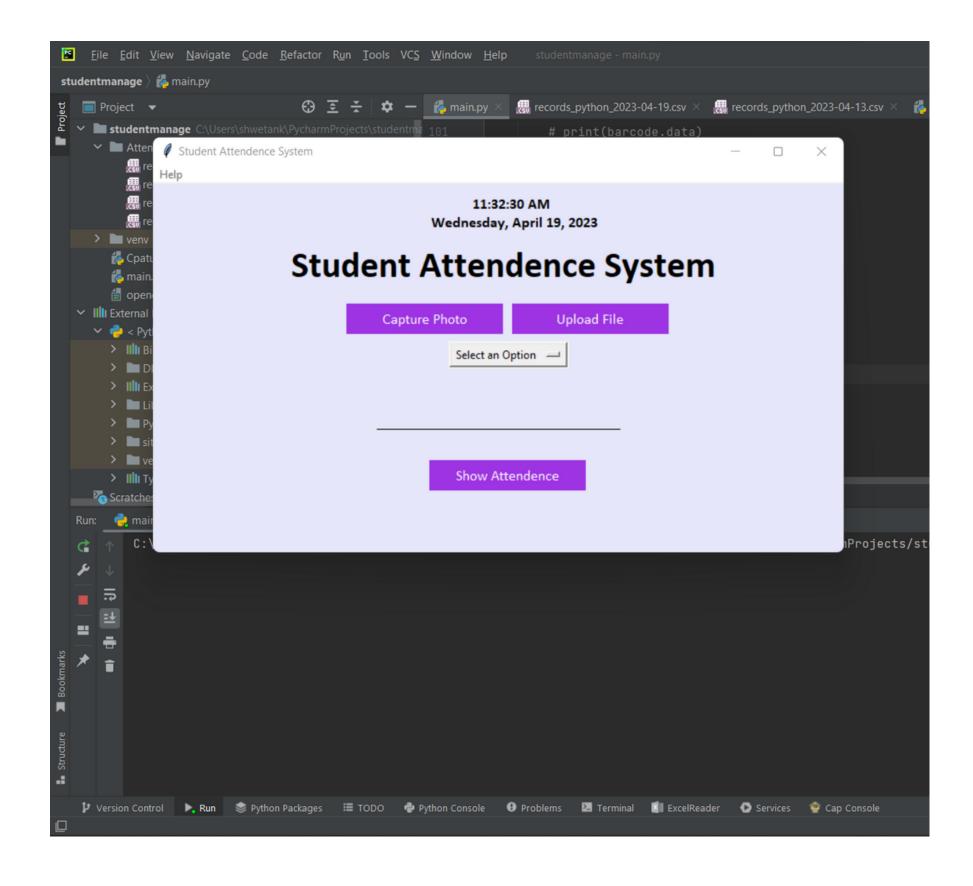
Hardware:

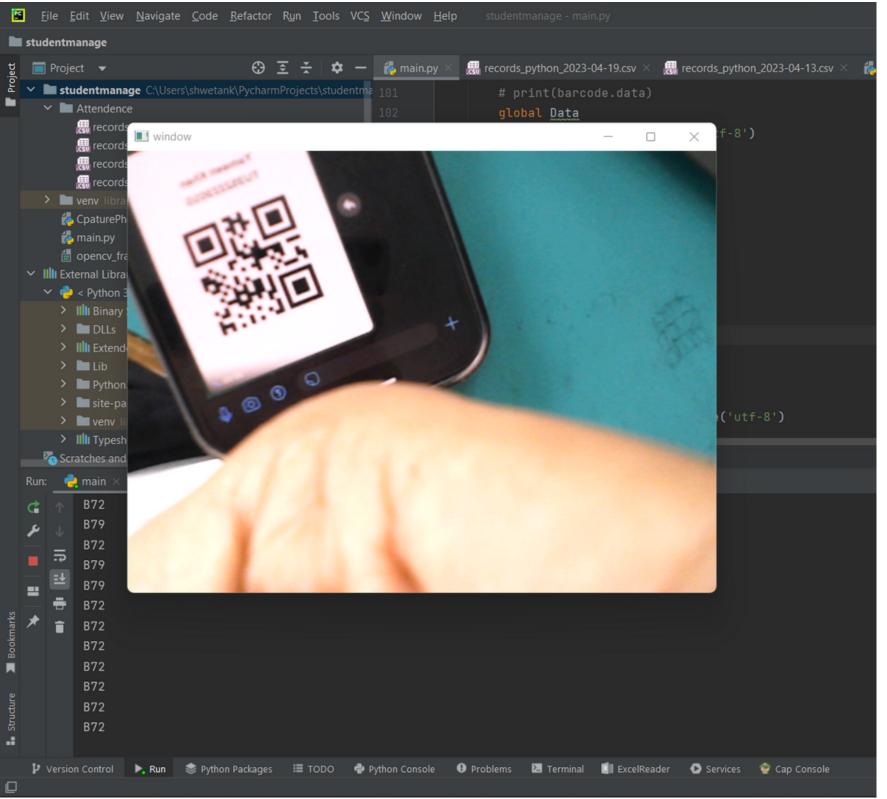
- PC or Laptop Windows 7 or Higher
- 13 Processor or Higher
- Web Cam or High Quality Inbuild Camera

FLOWCHART

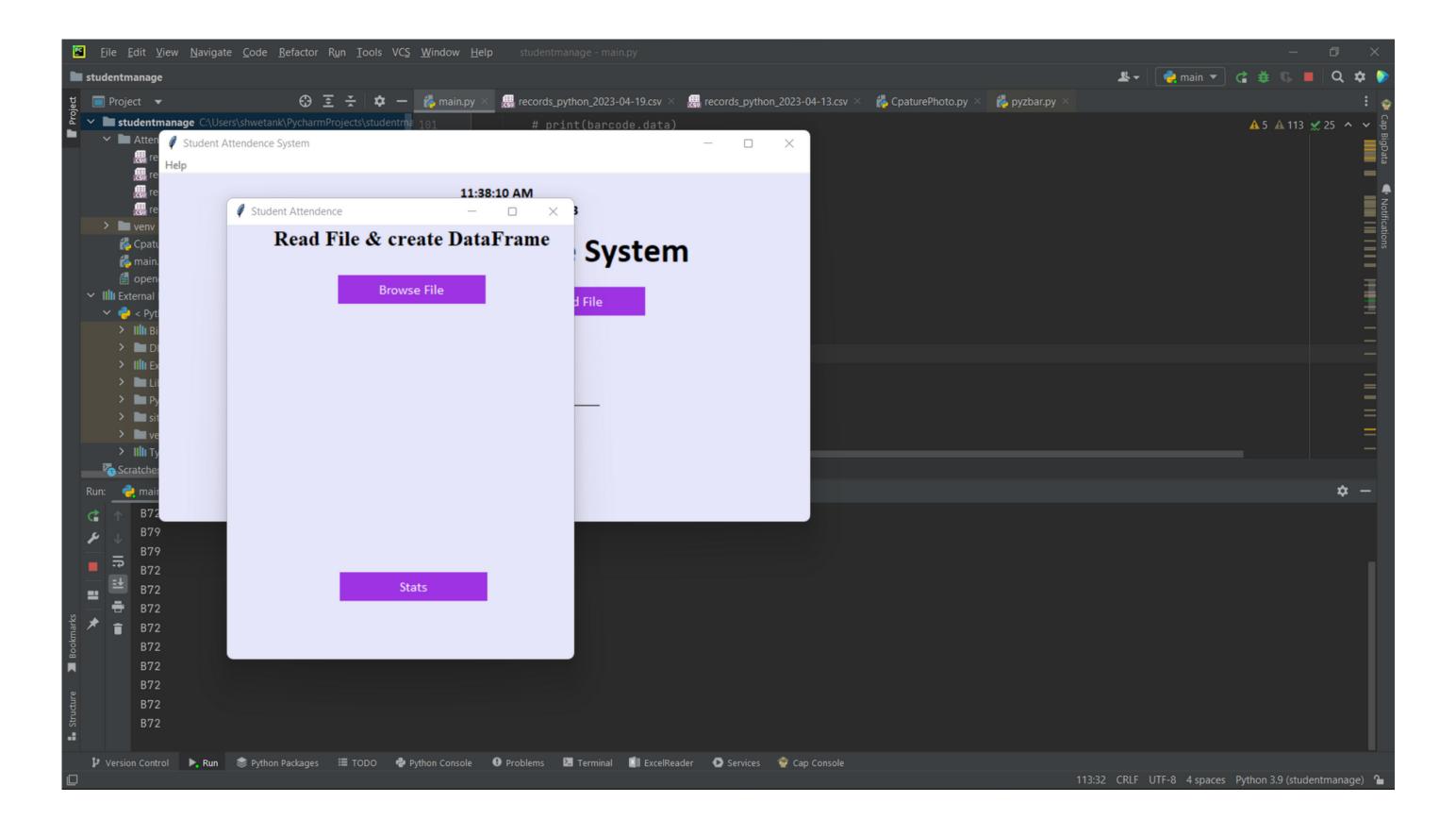


RESULT

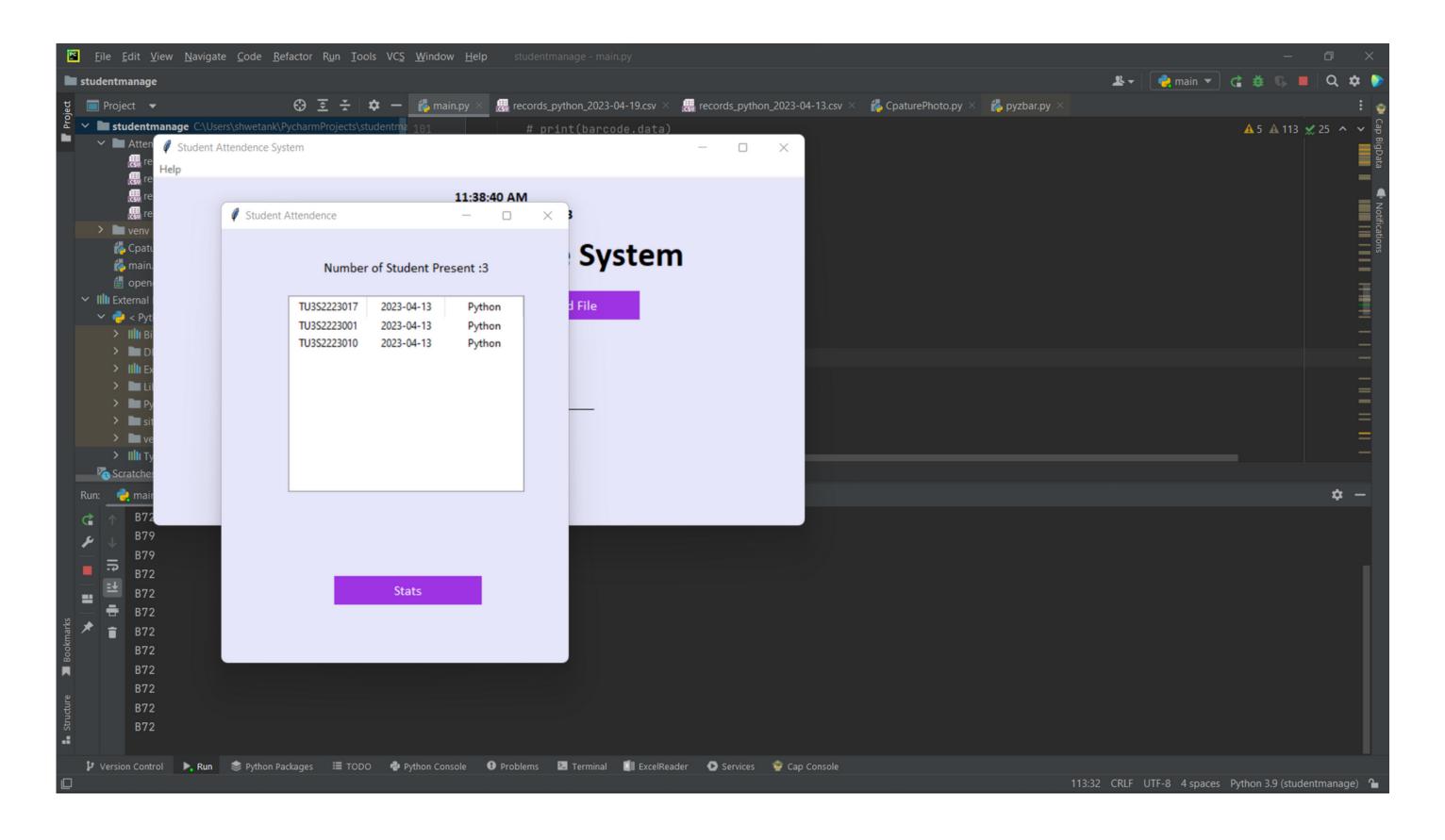




RESULT



RESULT



CONCLUSION

A program has been suggested to ensure attendance. This replaces the manual system with a simple, reliable, cost-effective, time-saving automated system as it eliminates the stationary material and paper work

FUTURE WORK

- Data will be stored Online using Server to make it easy to handle data more efficiently
- This system is manual, in the future, we will try to make it automatic
- We will add the function to calculate the Defaulter list of the student

REFERENCE

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- 5. https://www.ijert.org/

THANK YOU!