

Facial Recognition Attendance System

Streamline Attendance Management

Team Members

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The Problem: Time Consuming & Error-Prone

Manual Attendance

Time consuming, prone to errors, and vulnerable to fraud.

Our Solution

Automated facial recognition for accurate and efficient attendance tracking.



Key Features: Simplicity and Accuracy

1

Registration

Capture student faces for database.

2

Attendance Marking

Real-time facial recognition to mark attendance.

3

Data Logging

Time-stamped attendance records stored in a CSV file.

4

Attendance Viewer

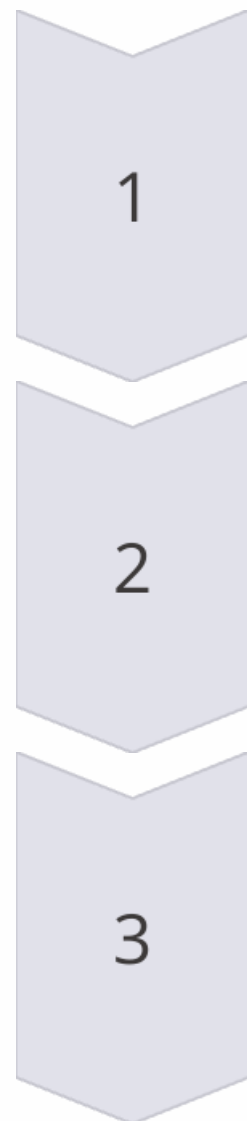
View logged attendance in table form.

5

Exporting

Can export attendance file for further processing.

Workflow: Seamless and Efficient



1. Register

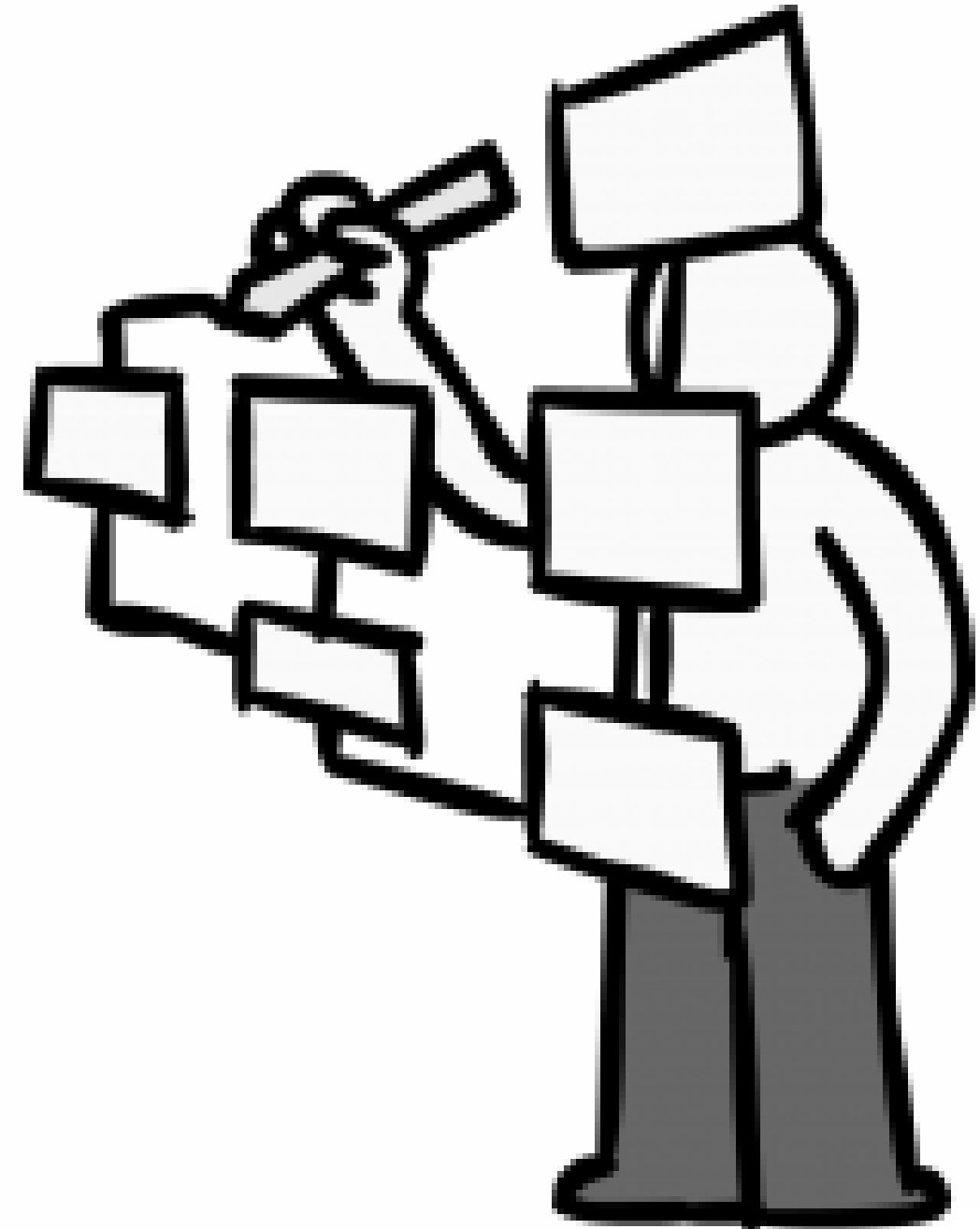
Capture and save student photos

2. Mark Attendance

Match faces against registered database.

3. Log Data

Record attendance details in CSV file.



Tools & Technologies: Robust and Powerful



Python

Programming language for system development.



Tkinter

GUI library for creating user interface.



OpenCV

Library for image processing and capturing.



Face Recognition

Library for facial recognition algorithms.



Csv Module

For logging attendance in CSV file.





Benefits: Efficiency, Accuracy, Security

Efficiency

Saves time and eliminates
manual data entry

Accuracy

Eliminates proxy attendance
and ensures accurate records.

Security

Provides reliable identification and reduces the risk of unauthorized
access.

Future Development: Enhanced User Experience

Integration of advanced features for a more robust and user-friendly experience.



Conclusion: A Modern Solution for Attendance

This facial recognition system offers a simple, effective, and secure approach to managing attendance, saving time and resources.

