

PROJECT TITLE

Camera Auto Attendant

BACKGROUND

Attendance management is an important activity in institutions and organizations. Traditional methods such as manual registers and card-based systems are inefficient, prone to errors, and allow fraudulent practices like proxy attendance. With advances in computer vision technology, camera-based systems can automatically identify individuals and record attendance accurately. This project aims to design and implement a camera-based automatic attendance system to improve efficiency and reliability.

PROBLEM STATEMENT

Existing attendance systems require manual input and supervision, which leads to errors, time wastage, and attendance fraud. These challenges affect productivity and record accuracy. There is a need for an automated attendance system that uses camera technology to reliably record attendance with minimal human intervention.

OBJECTIVES

General objective

To design and implement a camera-based automatic attendance system for employees.

Specific objectives

- I. To develop a system that captures employee images using a camera.
- II. To automatically identify employees and mark attendance.
- III. To reduce attendance fraud and manual errors.
- IV. To store attendance data in a digital database for reporting.

SCOPE OF THE PROJECT

The system will be developed for employee attendance management within a single organization. It will capture facial images, process them for identification, and record attendance. Payroll and biometric hardware integration are beyond the scope of this project.

SIGNIFICANCE OF THE PROJECT

The system will improve attendance accuracy, reduce administrative workload, and minimize fraudulent practices. It will also enhance the use of modern technology in institutional management.

METHODOLOGY

The project will follow a system development life cycle approach including requirements analysis, system design, implementation, and testing. Camera hardware and software tools will be used to develop and test the system.

EXPECTED OUTCOMES

- I. A working camera-based automatic attendance system.
- II. Accurate and secure attendance records.
- III. Automated attendance reports.

CONCLUSION

The proposed system will provide an effective solution to attendance management challenges by automating attendance recording using camera technology.