

Teacher



1. Initialization

Select Class (e.g. "Software Eng.")

GET /api/class/12/students

SELECT * FROM students JOIN student_classes...

Class Roster (List of Students)

2. Real-time Attendance Loop

Click "Start Attendance Camera"

Activate WebCam Stream

[Every 1 Second]

Capture Video Frame (Canvas > Blob)

POST /recognize (FormData: image)

Face Recognition Lib Processing

Detect Face -> Encode -> Compare

JSON (found_student_numbers: ["220706008"])

[Match Found in Roster]

Check if already marked "Present"?

[If Not Marked]

Update UI Card (Green Border)

POST /api/attendance/mark

INSERT INTO attendance_details (status='present')

Success

7

Saved

16

[No Match]

UI Status: "Scanning..."

3. Finalization

Click "Finish Attendance"

Stop Camera Stream

POST /api/attendance/finalize

UPDATE attendances SET total_present = X

Updated

Show Summary Report

25