



DEVNOVATE

presents

# HACK WITH RAJASTHAN





# PROBLEM STATEMENT



## AUTOMATED ATTENDANCE SYSTEM FOR RURAL SCHOOLS

(Build a Cost Effective Tech Enabled Solution For Tracking Student Attendance In Under Resource Schools.)

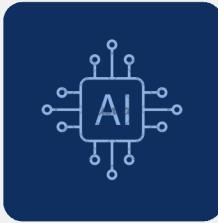
### PROBLEMS:

- 👉 Traditional Method Roll Call → TIME CONSUMING 
- 👉 False Attendance → UNFAIR MEANS 
- 👉 Existing Solution → SECURITY & PRIVACY GAPS 
- 👉 Tracking Attendance → TOO MUCH EFFORTS 





# SOLUTIONS



**AI - Powered Group Photo Attendance.**



**Real - Time Record Sheet Sync.**



**Biometric Backup In Error Condition.**

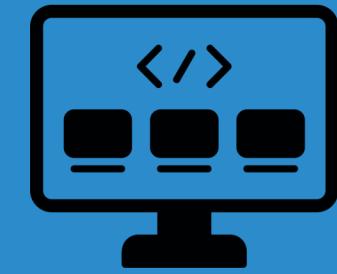


**Privacy - First : Photos Not Saved In Gallery.**



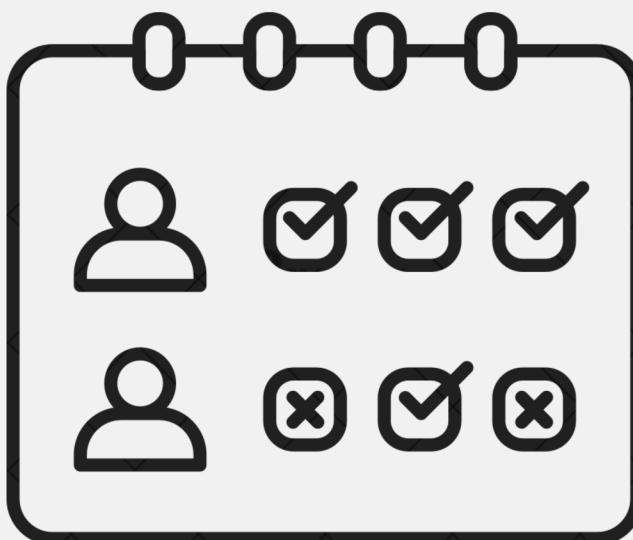


# TECH STACK



FRONTEND  
APP:

~flutter



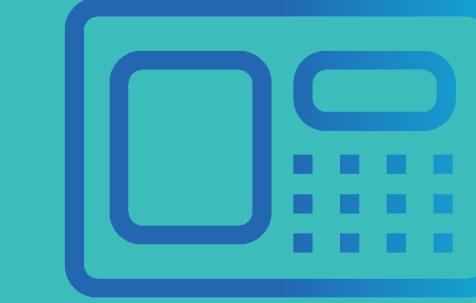
ARTIFICIAL  
INTELLIGENCE:

~tensorflow  
+opencv



DATABASE:

~firebase  
firestone



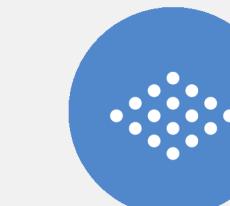
SYNC AND  
BIOMETRICS:

~google  
sheet API  
~native os API



BACKEND:

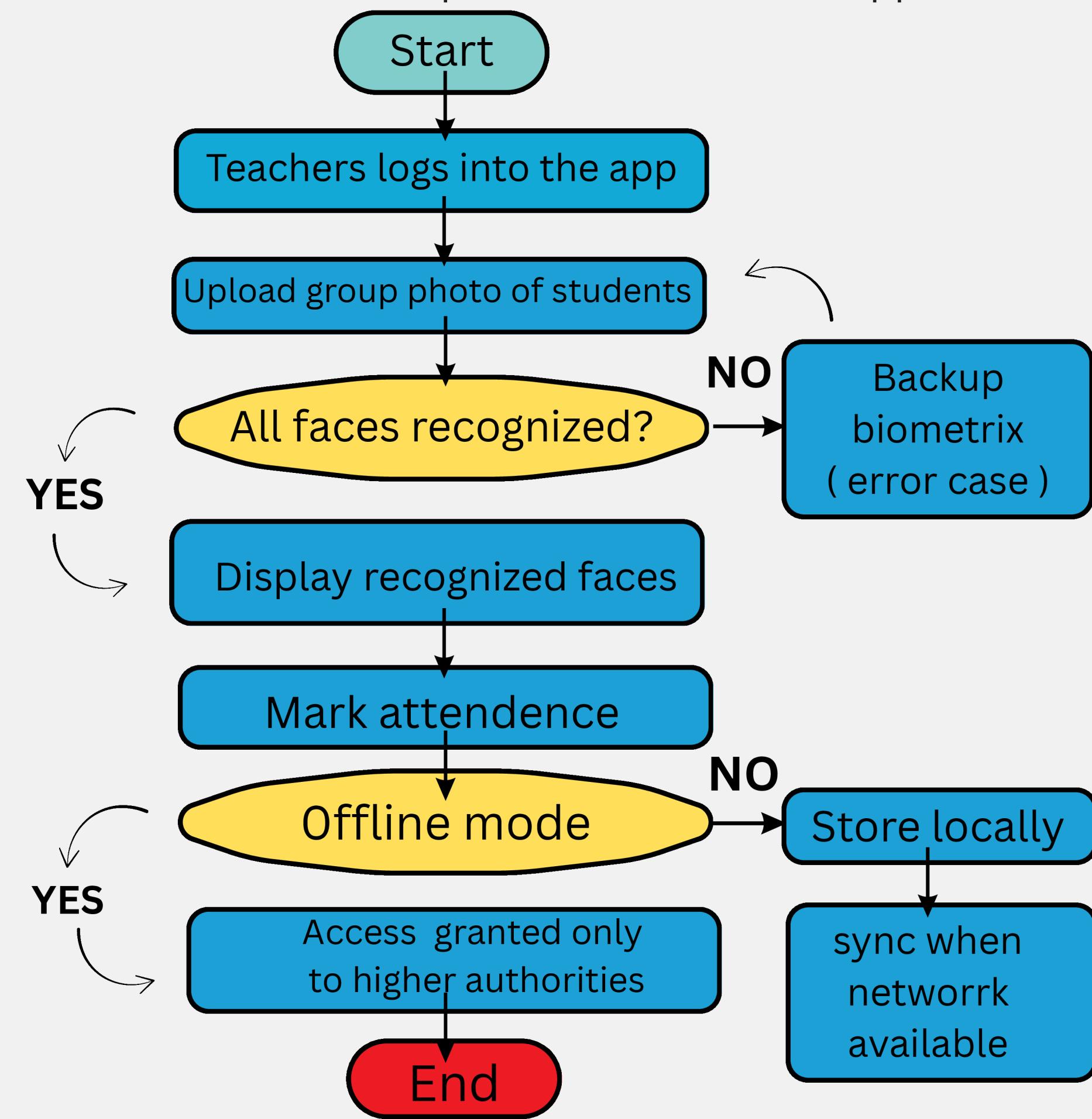
~ node.js with  
express  
(for admin  
dashboard APIs)





# WIREFRAME

Let's visualise our current process and build our app



**ATTENDIFY**  
Automated Attendance System

Upload a group photo of students

**MARK ATTENDANCE**

Attendance marked

Use fingerprint if not recog-

Excel Sheet

Name	Date	Status
		>
		>
		>
		>

**SYNC**



# UNIQUENESS AND POTENTIAL IMPACT

## FACE DETECTION ERRORS :

HD cameras + AI updates

UNIQUENESS

## FAKE PHOTO UPLOAD :

In-App Camera + Timestamp +  
Geo-Tag



POTENTIAL  
IMPACT

## PRIVACY CONCERN :

Auto Delete + Consent +  
Encryption

## INTERNET ISSUES :

Offline Mode + Auto sync

## TIME SAVED PER CLASS :

5 - 10 mins per day , 50+ hours  
saved yearly by per teacher.

## PROXY REDUCTION :

Nearly 100% eliminated.

## EFFICIENCY :

90%+ Accuracy With AI, Improving  
With Updates.

## REPORTS :

Instant Excel / Sheets Logo VS  
Manual Consolidation.



# TEAM MEMBERS



- **GRIVANSHI RAJPUT - LEADER**
- **KRITIKA KANDARI - FRONTEND DEVELOPER**
- **HRISHAKA KESHRI - APP DEVELOPER**
- **ISHANI - MANAGEMENT**

**THANK YOU!**  
**FROM - COGNIVOX**

