

# Concept Note on Syntizen's Facial Attendance

1:1 & Group Face Attendance



Respected Sir/Madam,

**Sub: Submission of 'Concept Note' regarding Syntizen's Facial Attendance System (1:1 & Group Face Attendance) for seamless Subsidy Monitoring.**

**Greetings from Syntizen Technologies !**

Let me take this opportunity to introduce ourselves. We are a leading Digital Identity Startup in India offering services to 5 State Governments and 35+ BFSI Companies in India. In total we have completed more than 2 Billion transactions and are performing about 10 Million transactions every day on Digital Identity.

At this juncture, to seamlessly monitor subsidies & to have a clear view of the number of attendees attending classes/duty, Syntizen Technologies proposes our state of the art Facial Attendance Solutions powered by Artificial Intelligence & Machine learning.

Request you to please go through our concept note and provide us an opportunity to present our solutions along with a live demonstration.

Look forward.

**Yours Sincerely,  
K Siddharth  
Chief Business Officer  
Syntizen Technologies Pvt. Ltd.**



## CHALLENGE - 1

### Seamless Monitoring of Subsidies

- Fingerprint matching for kids is a problem
- Traditional Fingerprint based solutions are subject to fraud.
- Unable to digitally monitor subsidies due to lack of proper technology.



## PROPOSED SOLUTION



**Group Face based system provides a solution for all the above.**

- Works flawless for all age groups
- Complete attendance marking in 2 mins for a class of 50 thereby enabling period to period attendance.
- Monitor Subsidies seamlessly and take administrative calls for the future based on existing data.



## CHALLENGE - 2

### Longer Attendance Marking Times

An average time taken to mark attendance via Fingerprint based attendance system are prone to delays due to following reasons

- ❖ In primary schools children's fingerprints are more likely to produce false matches
- ❖ A student has to provide his/her attendee ID and then scan the finger
- ❖ Average time to mark attendance is 18 seconds per student thus taking 15 minutes for a class of 50 students

Thus time taken to mark attendance of entire class room eats up into the class period time. Class times become less productive and this leads to delay in syllabus completion and thus less time for teachers and students to assign time for revision of subjects.



## PROPOSED SOLUTION

### Marking of attendance in 2 minutes

Our innovative Group Facial Attendance Solution is capable of marking attendance for a group of 50 students in about 2 minutes. Using AI&ML techniques we are able to make attendance of students in groups thus bringing down the total time required. We can detect up to 8 faces in a single frame it takes only 2 to 3 seconds per attendee.



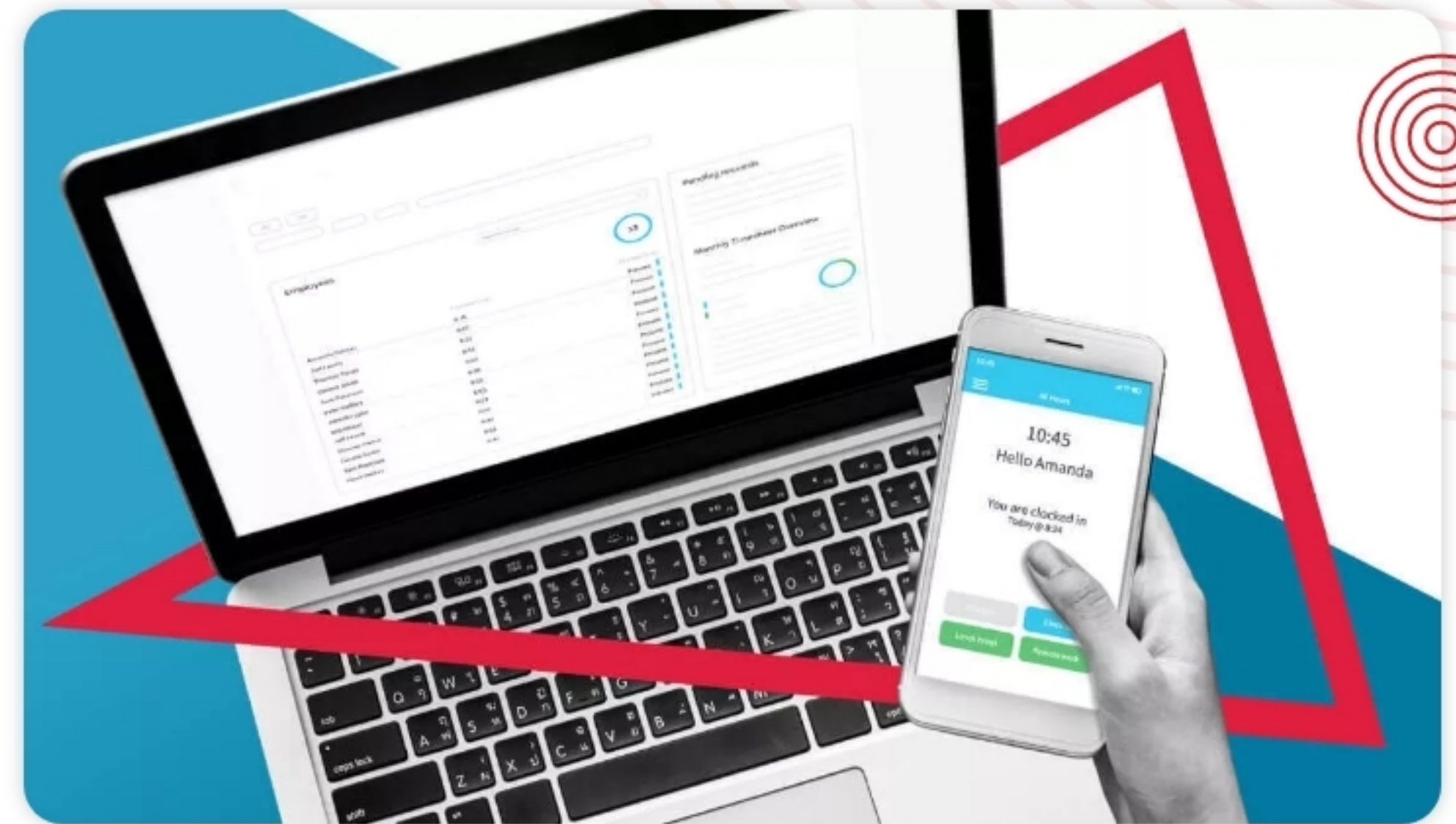
## CHALLENGE - 3

### Dependency On Internet

Current attendance systems are dependent on internet to send attendee information for verification and receive the verified response. Thus causing delays or interruptions to the attendance marking.



## PROPOSED SOLUTION



### Edge Level Solution

The proposed solution does not need internet connectivity to mark attendance. Ability to work at the edge level and sync the attendance records automatically when connectivity is restored.



## CHALLENGE - 4

### Contact Based Solutions

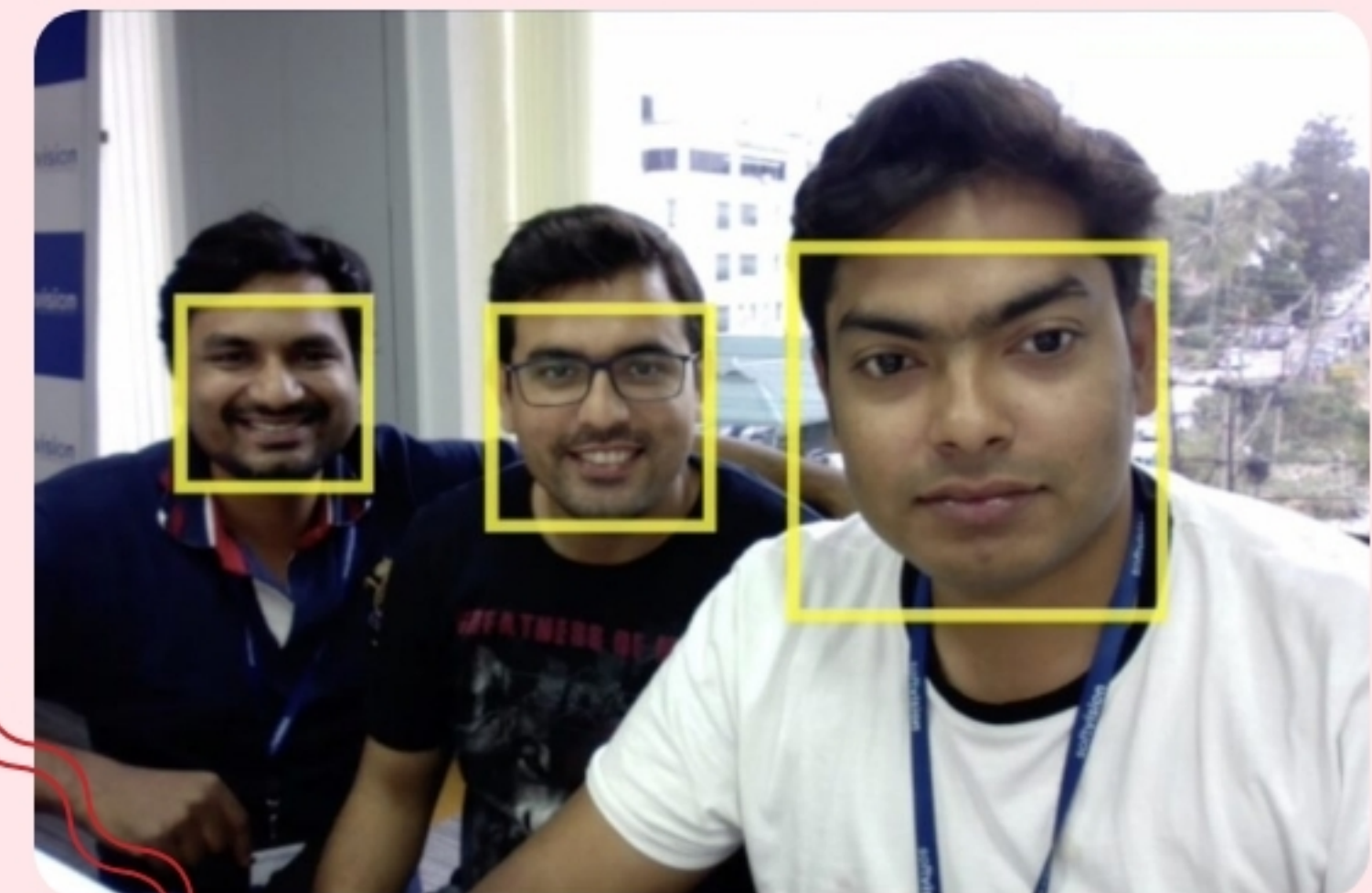
Fingerprint based solutions work by touch, where same surface comes in to contact with multiple students. Times like Covid & other pandemic diseases can cause spread of infections and thus forcing governments to instruct stoppage of attendance marking by fingerprint based solutions.



## PROPOSED SOLUTION

### Contact-less, Safe!

AI&ML enabled advanced facial attendance system can detect students and mark attendance within safe distance of 6 feet. Being contact-less by nature, doesn't spread diseases and ensures system functionality in tough times.





## CHALLENGE - 5

### Tedious Maintenance of Fingerprint Devices

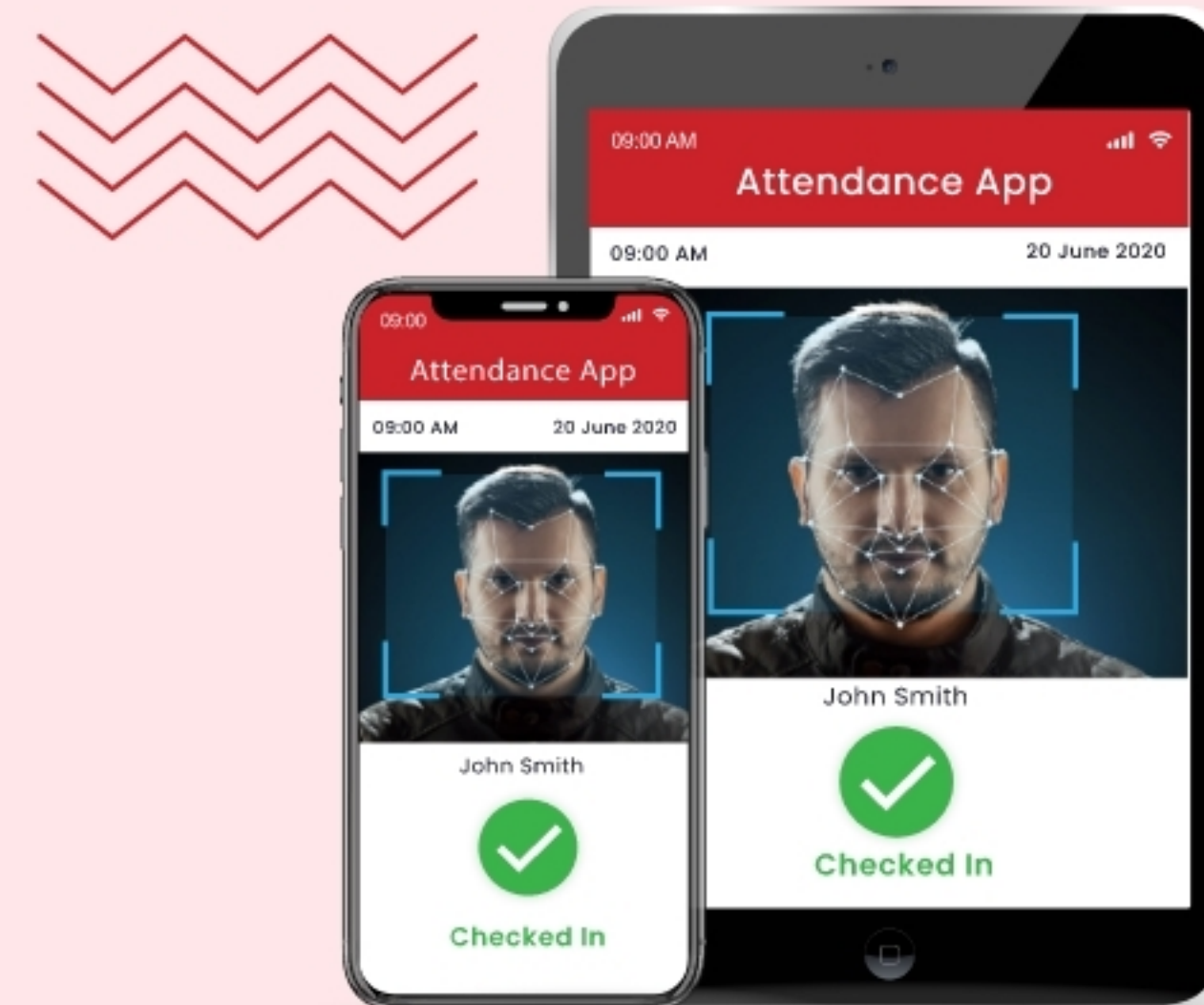
Since used unsupervised by students and being operated repeatedly, fingerprint devices are prone to issues. A device if develops issues needs technicians intervention to be fixed at the field level or replacement of device. This leads to delays, in some cases bypassing the attendance system and mark attendance manually.



## PROPOSED SOLUTION

### Less Maintenance Required

Smartphones used to mark attendance using face based attendance system needs minimal operation and since used by faculty are prone to less issues, thus less maintenance needed.





## CHALLENGE - 6

### High Associated Overall Cost

Procurement of devices, annual maintenance, transportation, and installation of fingerprint devices result in high associated overall cost of the fingerprint based attendance systems.



## PROPOSED SOLUTION

### Cost Effective Solution

Less maintenance needs, and minimal logistical efforts needed result in overall cost effective solution.





## CHALLENGE - 7



### Tedious Efforts and Delayed Deployment

Procurement of devices, mounting devices at field location, activation of devices and training of students and faculty is a tedious process which leads to delayed deployment of attendance solution and also results in challenges in re-adapting the usage after a long pause.

## PROPOSED SOLUTION



### Effortless and Quick Deployment

Setting up of the solution is effortless since it doesn't need much efforts in procurement, installation and activation of devices, which results in easy adaption and effective usage. This also ensures easy re-adaptation after a long pause



## CHALLENGE - 8



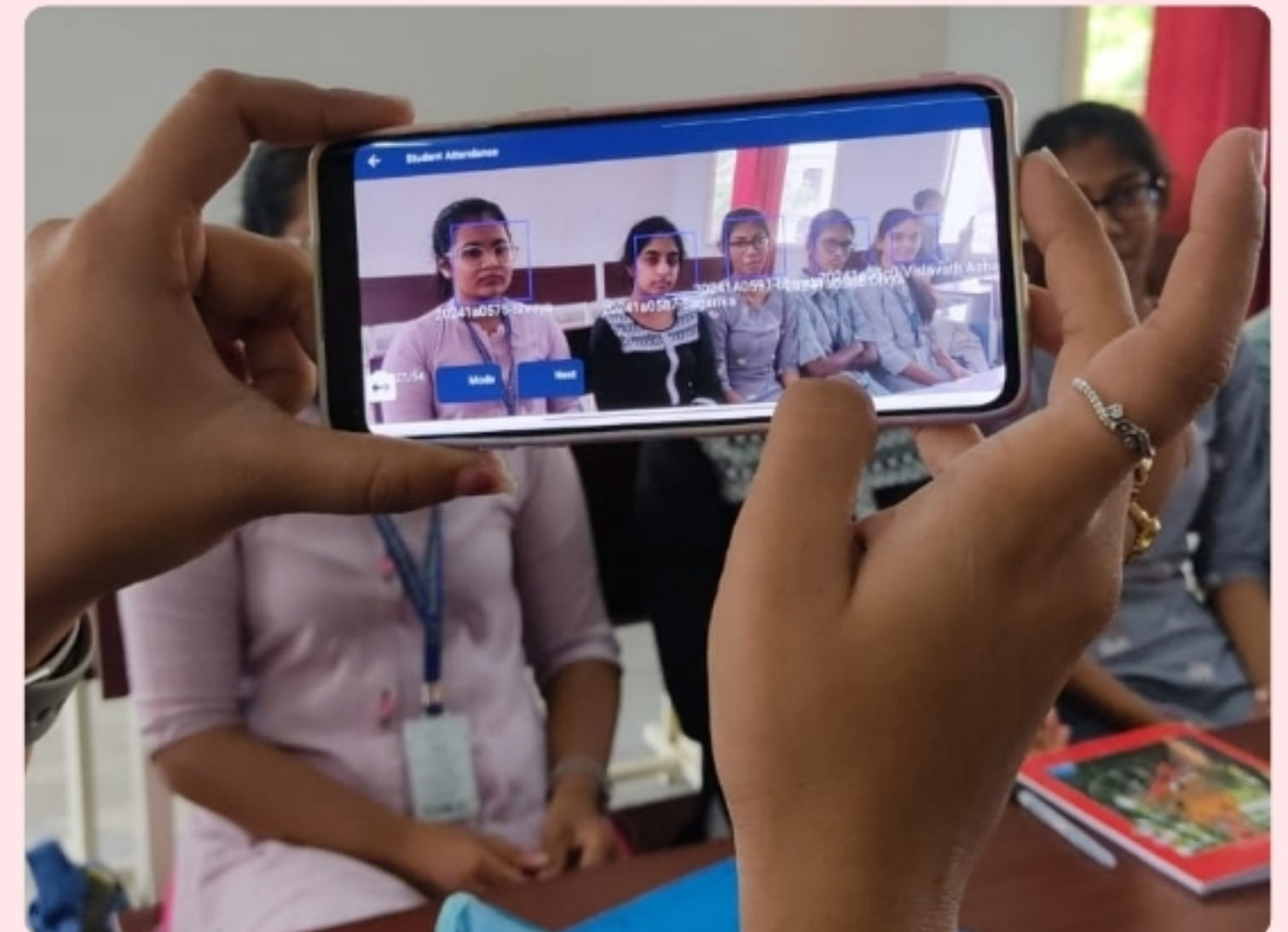
### Rigid System

Current fingerprint based attendance solution is quite rigid in nature. Only works on internet, single attendance can be marked at a time, needs certified devices to work. Such dependencies result in a non versatile solution which limits its usage to a greater extent.

## PROPOSED SOLUTION

### Versatile and adaptable

Facial attendance solution offers a greater amount of flexibility since it can be operated at edge level without any internet connectivity, doesn't need certified devices to work. It can capture single attendance and group attendance based on the requirement. Solution available in iOS and Android





## BENEFITS OF FACE ATTENDANCE SYSTEM



Marking of attendance  
in less than 2 minutes  
(Group of 50 Attendees - 1:N)



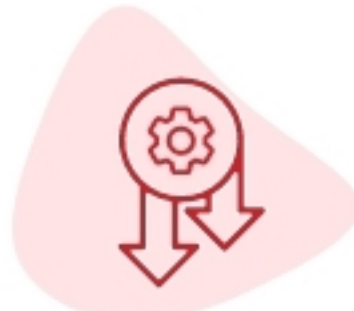
Marking of Single attendance  
in less than 1 Second - 1"1



Edge level  
solution



Contact-less,  
Safe!



Less Maintenance  
Required



Cost effective  
solution



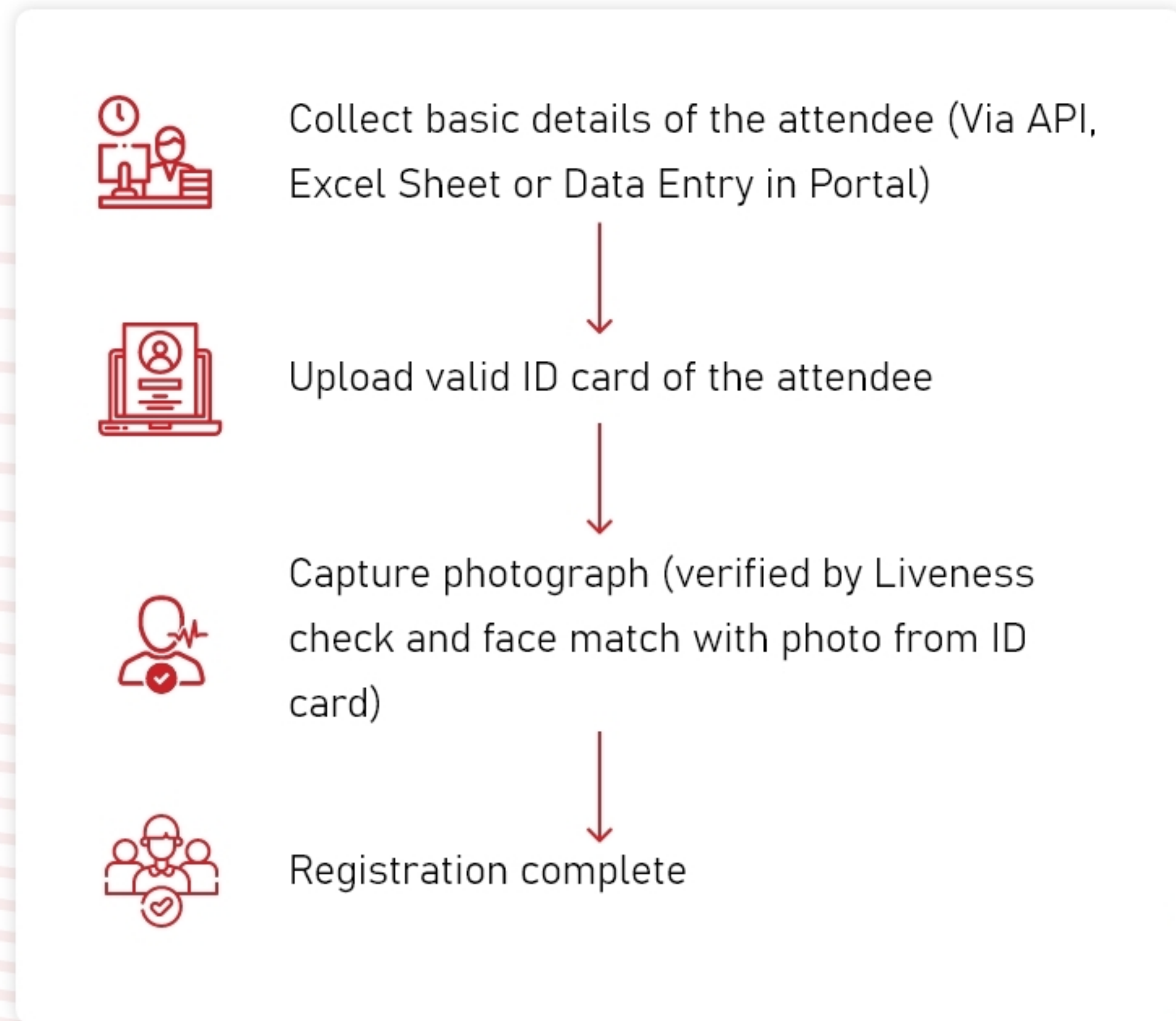
Effortless and  
Quick Deployment



Versatility of solution to  
suite various requirements

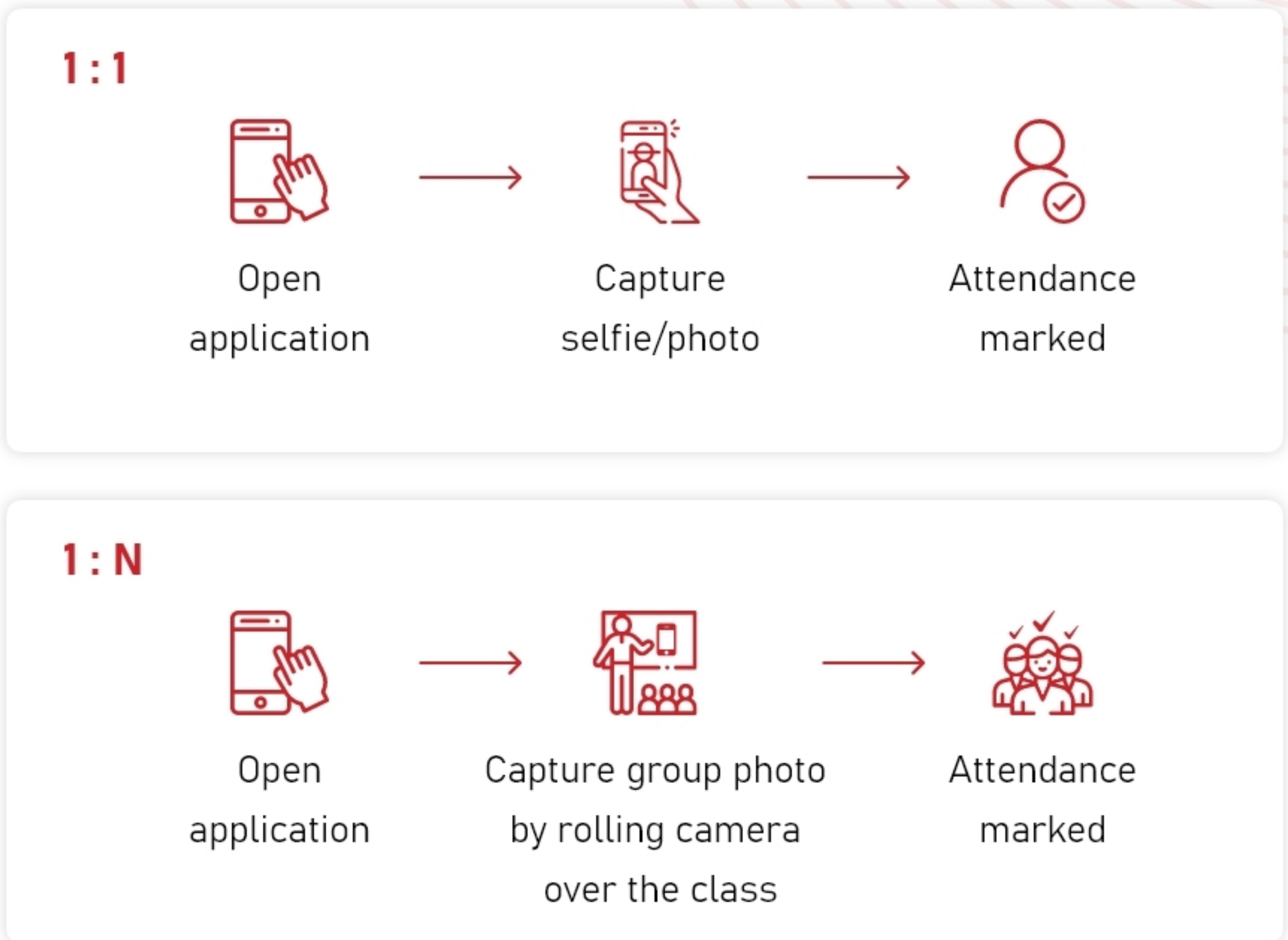


## 1. Registration of Attendees (One Time Process)



\* Internet Required

## 2. Marking Attendance



\* No Internet required edge level Solution



## GOVERNMENT IT DEPARTMENT/PSU



Infrastructure



Attendee data



Marketing to departments

## SYNTIZEN



Core solution



Attendance application to  
mark attendance (1:1 or 1:n)



Portal for enrollment &  
management



MIS dashboard  
and reports





## Syntizen's Product - (AUA/KUA) its Usecases in different Departments

(The QR code is both clickable and Scannable)



## RELEVANT EXPERIENCE



### ANDHRA PRADESH GOVERNMENT

Won a tender with Andhra Pradesh Govt to provide Group Face Attendance Solution for marking attendance in Schools for 14 lakh students



### TELANGANA - DOST APPLICATION

Online counselling for Degree colleges for Intermediate passout students



**Orissa** : Pension services were avail through our Video KYC solution



### Telangana -RTA DEPARTMENT :

No longer visiting the office physically for Driving license or vehicle registration



**GVK EMRI** : Face based attendance application was provided to the ambulance drivers to mark their attendance shift wise

## CURRENT RUNNING POC'S



### TELANGANA IN DIFFERENT DISTRICTS

- \* **Mancherial District** :  
Face based Attendance Application
- \* **Janagoan District** :  
Face based Attendance Application



### UP GOVERNMENT

Group based Attendance Application





**PER ATTENDEE  
PER YEAR MODEL**



**SCAN QR FOR OUR  
PRODUCT VIDEO**



**NEED DEMO ?**

**CONTACT**

**sales@syntizen.com**

**7337494488**



**2  
BILLION**



Digital  
Identification Transactions



**35+**  
Banking & Financial Clients



**05**  
Indian State Government Clients



Saved **2 Billion** INR for  
Governments with our Tech



सत्यमेव जयते  
**Govt of India**  
recognized Startup



**NASSCOM Emerge 50 Startup**  
in India



Currently performing **10 Million**  
transactions per day



**100+** Team Size



PARTNERS





Governments (State & Central)



Government of Telangana  
Transport Department



TNeGA

Banks



Securities/ Stock Broking





Housing Finance



Public Safety



Education



Non Banking Financial Organizations



Life Insurance





# THANK YOU

Reach out to CXO's at :

**VAMSI KOTTE**

Chief Executive Officer

✉ vamsi@syntizen.com

**K SIDDHARTH**

Chief Business Officer

✉ siddharth@syntizen.com



General Enquiries : [info@syntizen.com](mailto:info@syntizen.com)

Business Enquiries : [sales@syntizen.com](mailto:sales@syntizen.com)

Reach us at : [www.syntizen.com](http://www.syntizen.com)



### Headquarters

Syntizen Technologies Pvt. Ltd.  
Manjeera Majestic Commercial



### US Address

Syntizen Inc.  
16192 Coastal Hwy. Lewes,  
DE 19958