

FAST ATTENDANCE SYSTEM TECHNOLOGY (FAST)

BY GROUP ID : AD-008

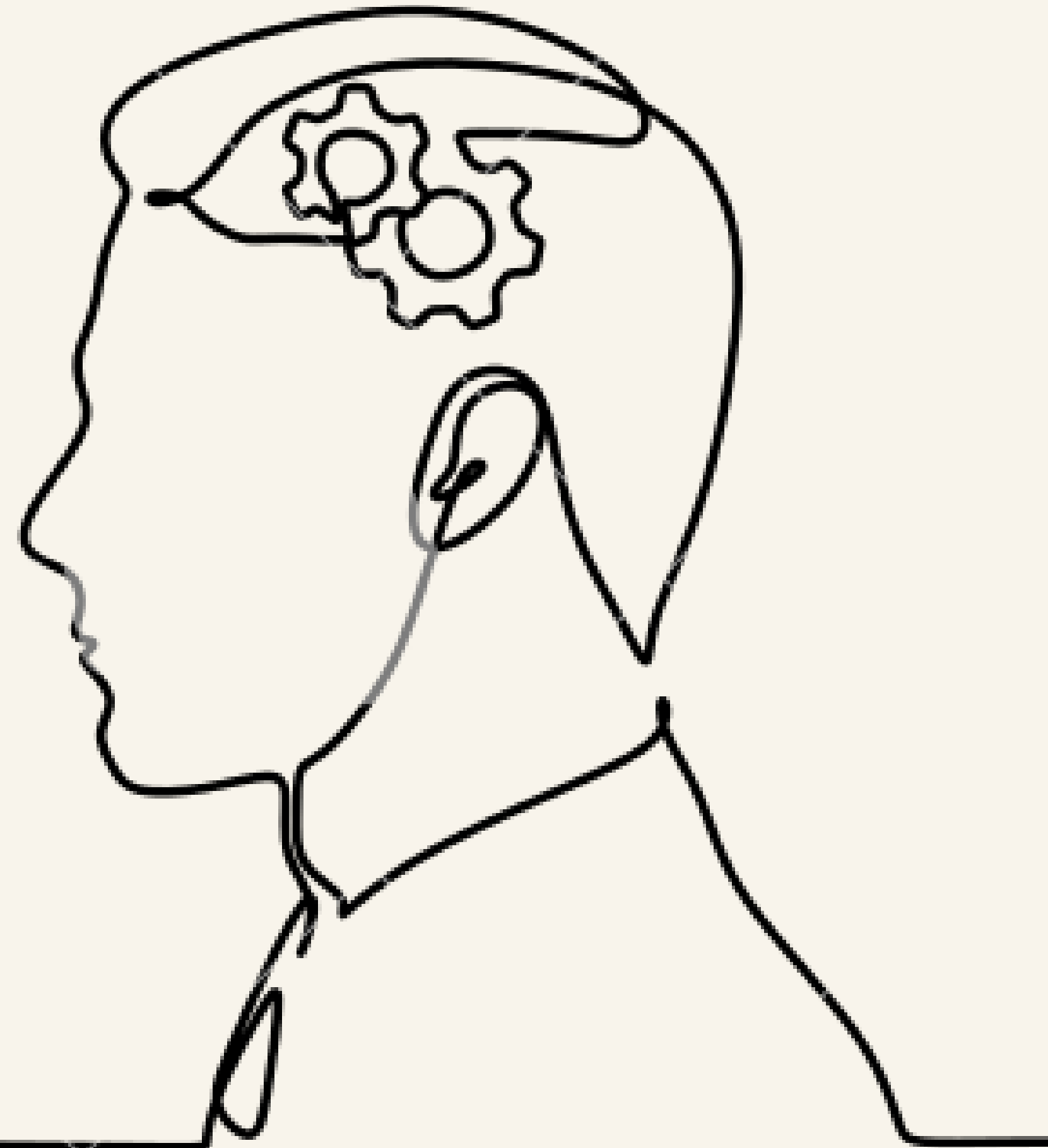
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F. Y. ENGINEERING

PROBLEM STATEMENT

Improvising the ease and reliability of
attendance-taking process.

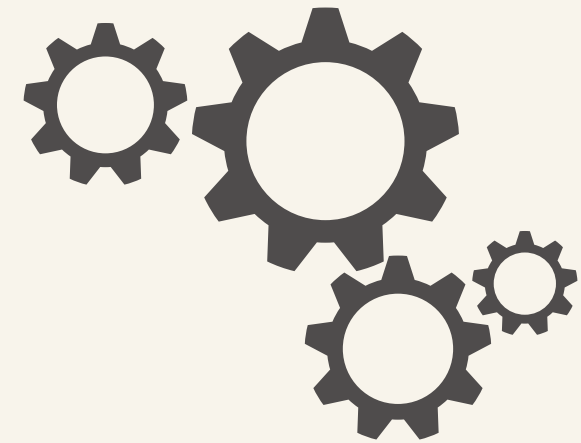


POTENTIAL PROBLEMS



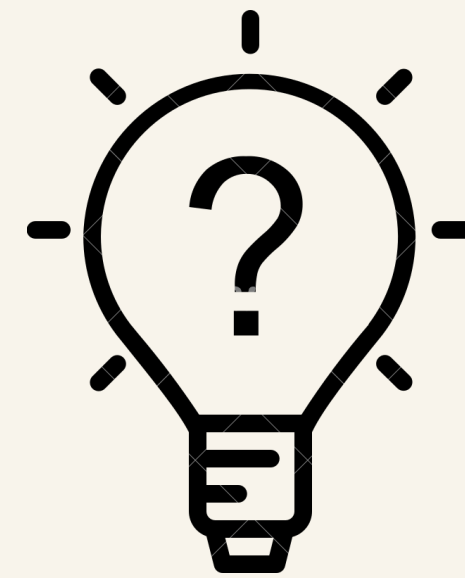
- Attendance-taking cumbersome
- Time-consuming
- Proxies
- Manual errors

POTENTIAL SOLUTIONS



Solution	Description
Roll-call	Calling Roll-numbers serially
Biometrics	Fingerprint scanning
	Face-scanning
RFID	Card-based
Bluetooth	Bluetooth-pairing

PROBLEMS

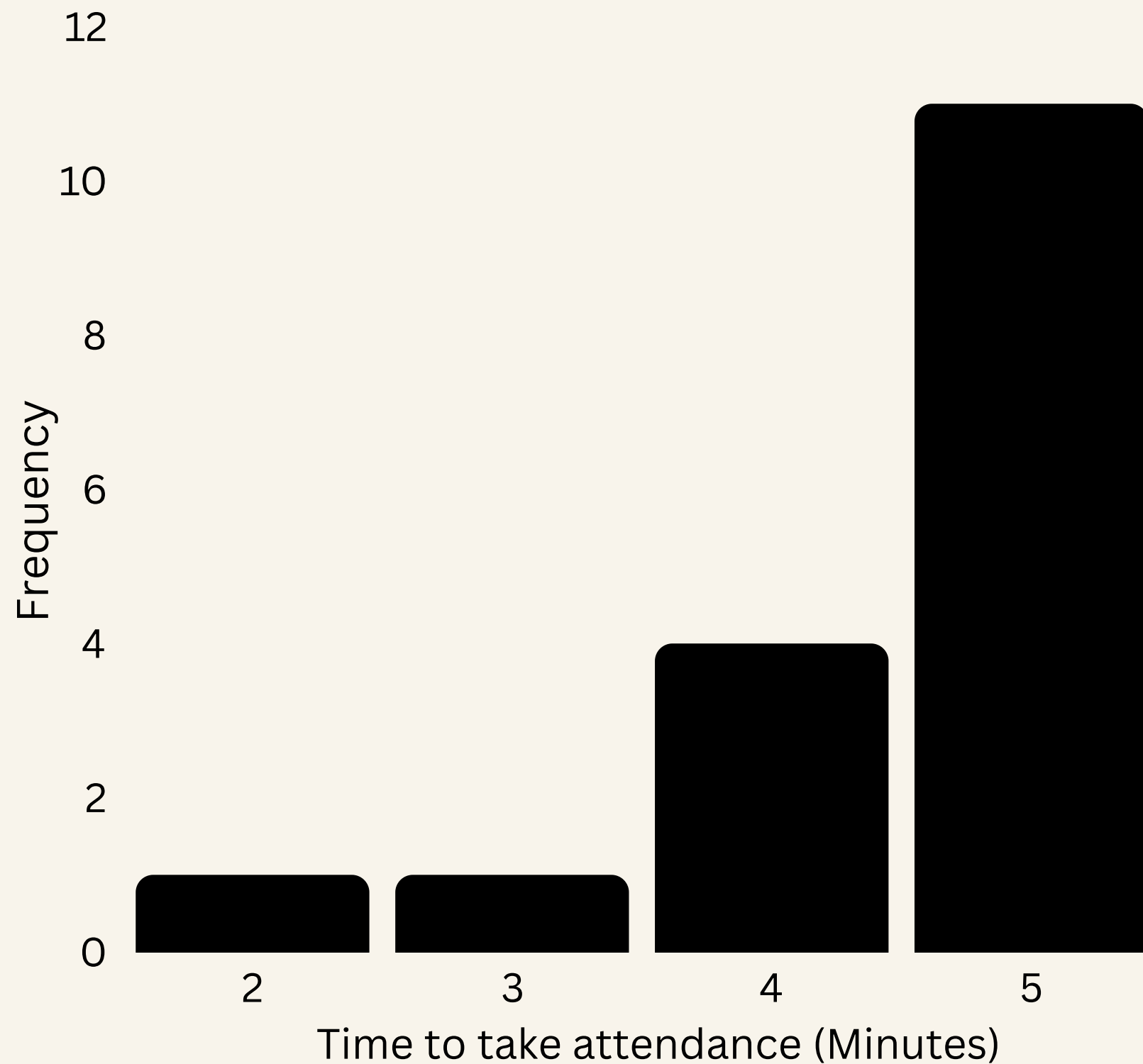


Previous Solution	Problem
Roll-call	Extremely slow, tiring, prone to proxies
Biometrics - fingerprint	Expensive, slow
Biometrics - face	Prone to errors and proxies (Might be expensive)
RFID	Prone to proxies
Bluetooth	Slow, prone to errors, confined to a limited range

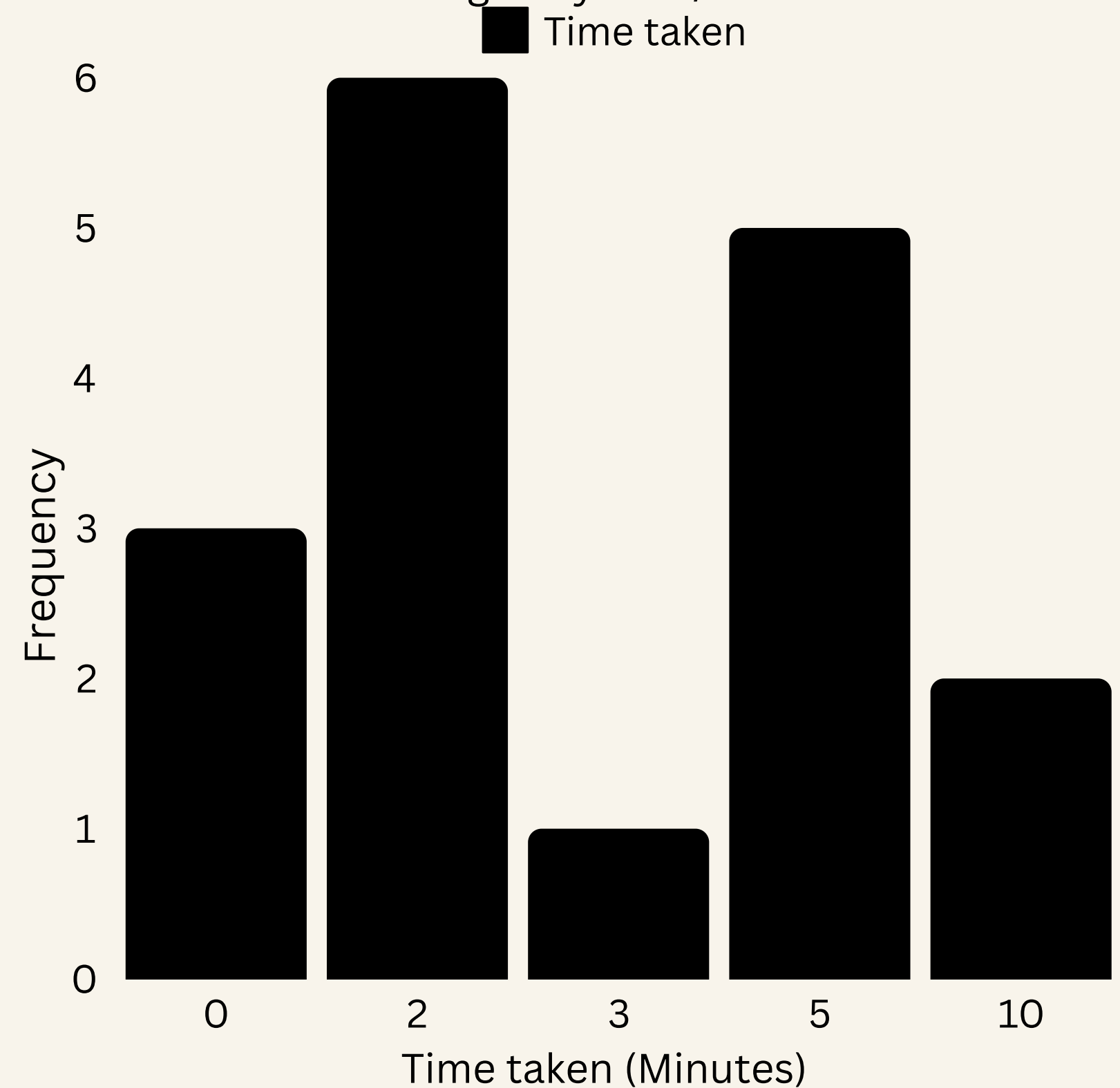
SURVEY



Time taken on average to take attendance

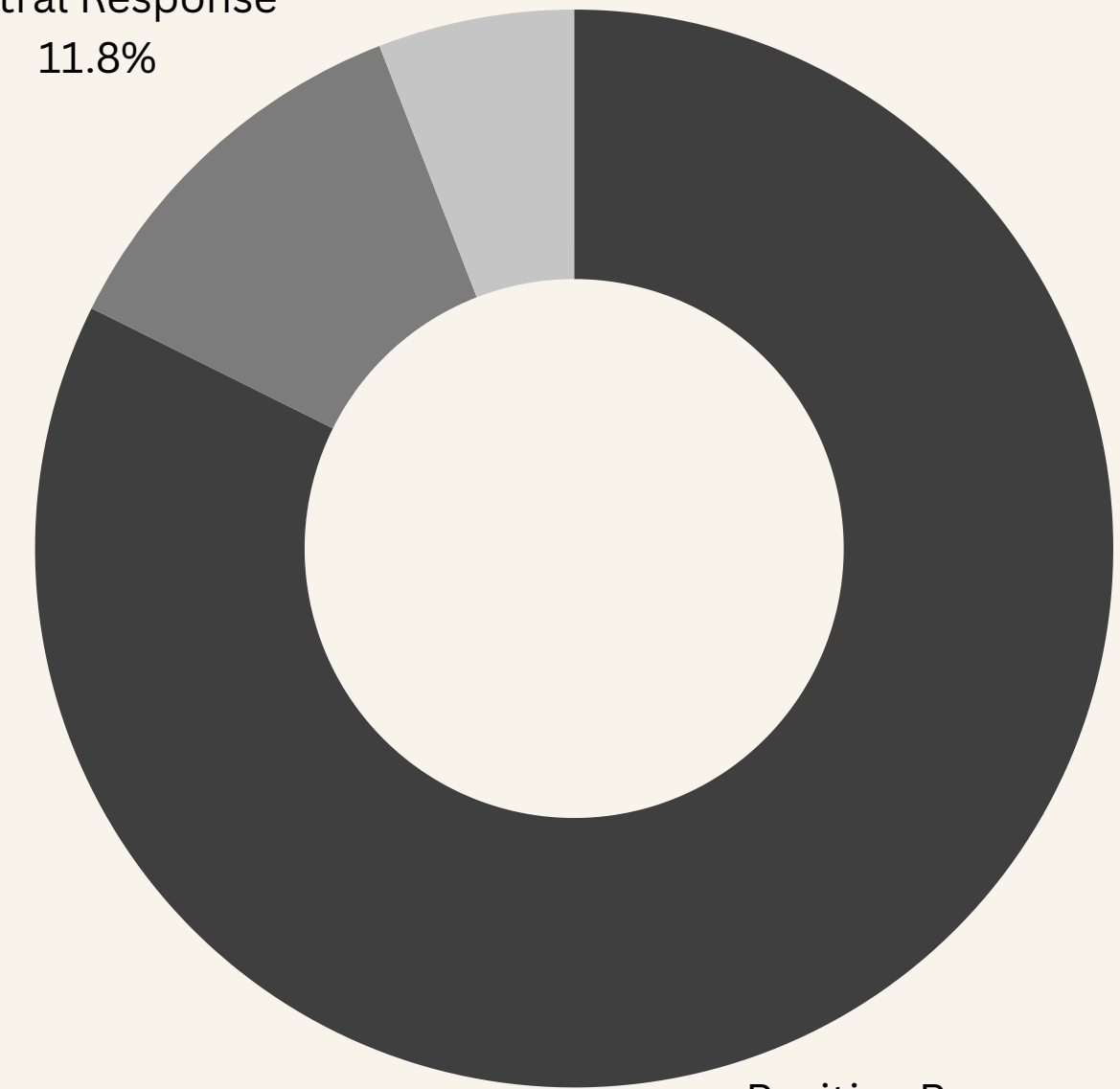


Time taken on average to transfer attendance to college's system/records



What if attendance-taking was digitalised?

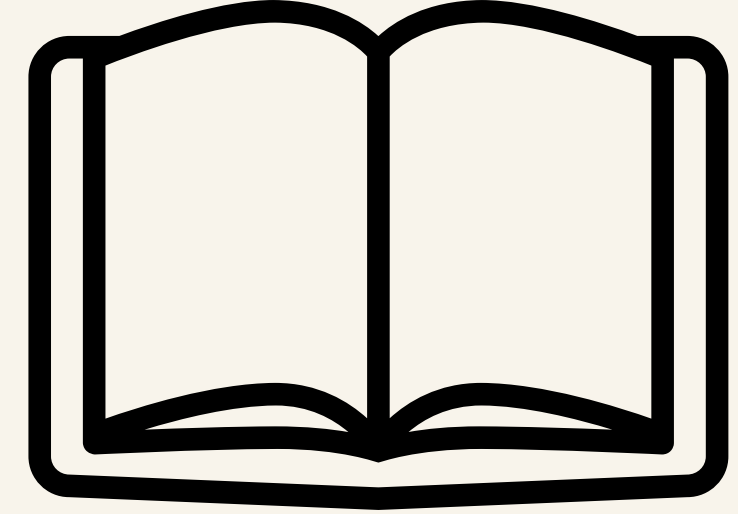
Neutral Response
11.8%



Positive Response
82.4%



LITERATURE REVIEW



1	A COMPREHENSIVE STUDY ON ACADEMIC AND INDUSTRY AUTHENTICATION AND ATTENDANCE SYSTEMS	Vibin Mammen Vinod, Thokaiandal S, Sindhuja C S, Mekala V, Manimegalai M, Prabhuram N	Comparison of various attendance systems and their advantages / disadvantages
2	A Students Attendance System Using QR Code	Fadi Masalha, Nael Hirzallah	QR Code based attendance with facial check and time- difference since start of displaying QR Code
3	Smart Attendance System Applying QR Code	Md Rizal Md Hendry, Mohd Noah A. Rahman and Afzaal. H. Seyal	QR Code for check- listing and records purposes

4	Development of Web-Based Smart Security Door Using QR Code System	Ahmad Fahmi Mohd Fauzi, Nur Nabila Mohamed, Habibah Hashim, Mohammed A. Saleh	Door lock and attendance system using QR Code
5	QR Code Based Smart Attendance System	Xiong Wei , Anupam Manori, Nandgopal Devnath, Nitin Pasi, Vivek Kumar	Simple QR-based attendance, unique QR for each student
6	Smart Student Attendance System Using QR Code	Arpankumar Patel, Ansel Joseph, Shubham Survase, Rohini Nair	Timestamp-based QR Code Attendance

OUR SOLUTION



Attendance-taking system, based on technology of Smart Codes like QR Codes

Application:



'Mode1' and 'Mode2' are clickable

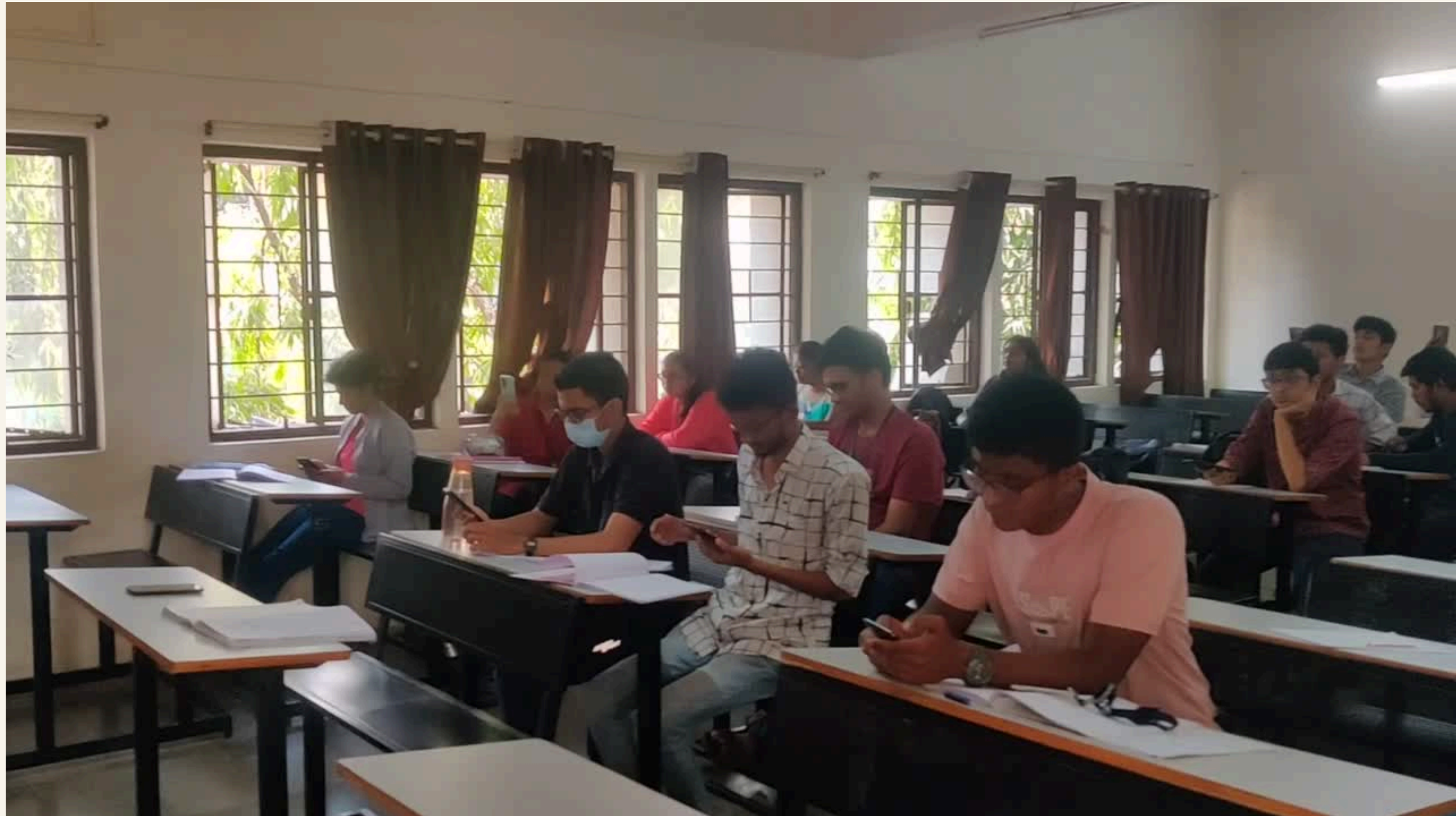
PREVIOUS PROBLEM COMPARISON



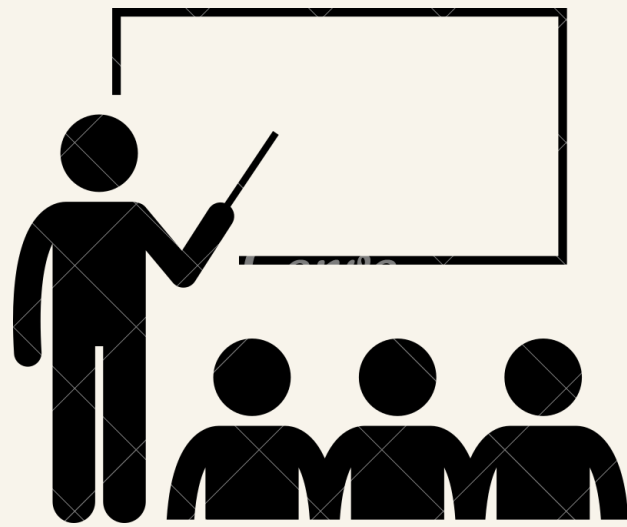
Problem	Roll-call	Biometrics	RFID	Bluetooth	Our solution
Low-cost	✓			✓	✓
Proxy-proof		✓			✓
Fast			✓	✓	✓

DEMONSTRATION

VIDEO OF IMPLEMENTATION IN CLASS



GENERALIZATION



Educational Institutions



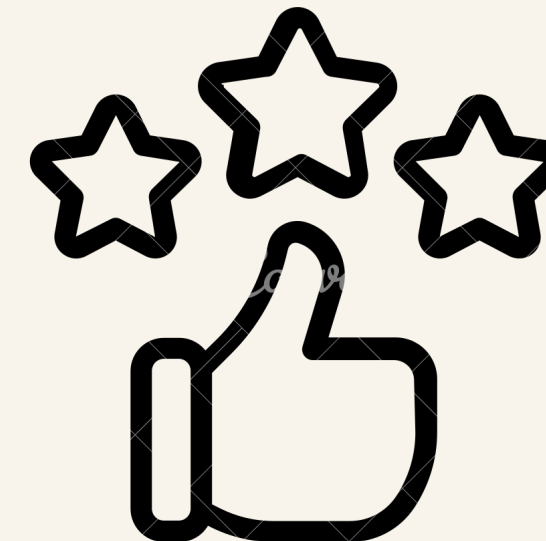
Seminars



Criminal Nexus



Corporate

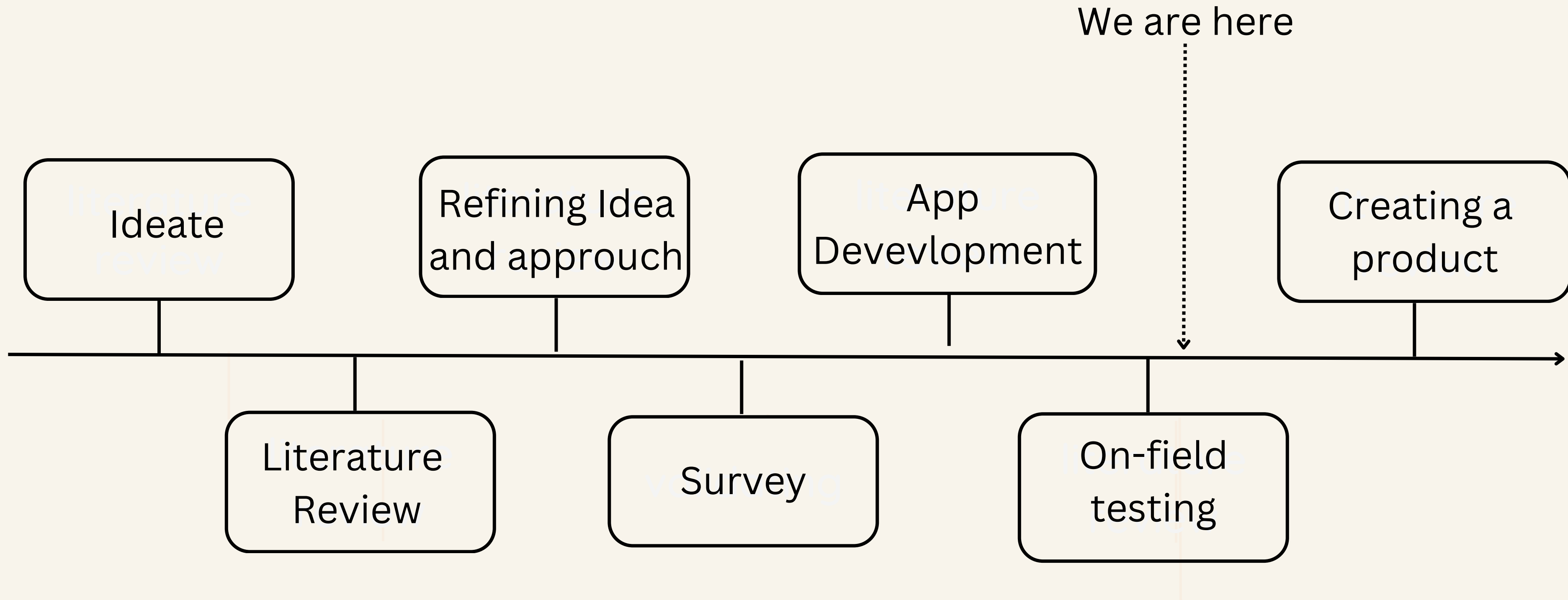


Feedback system

RESULTS AND DISCUSSIONS



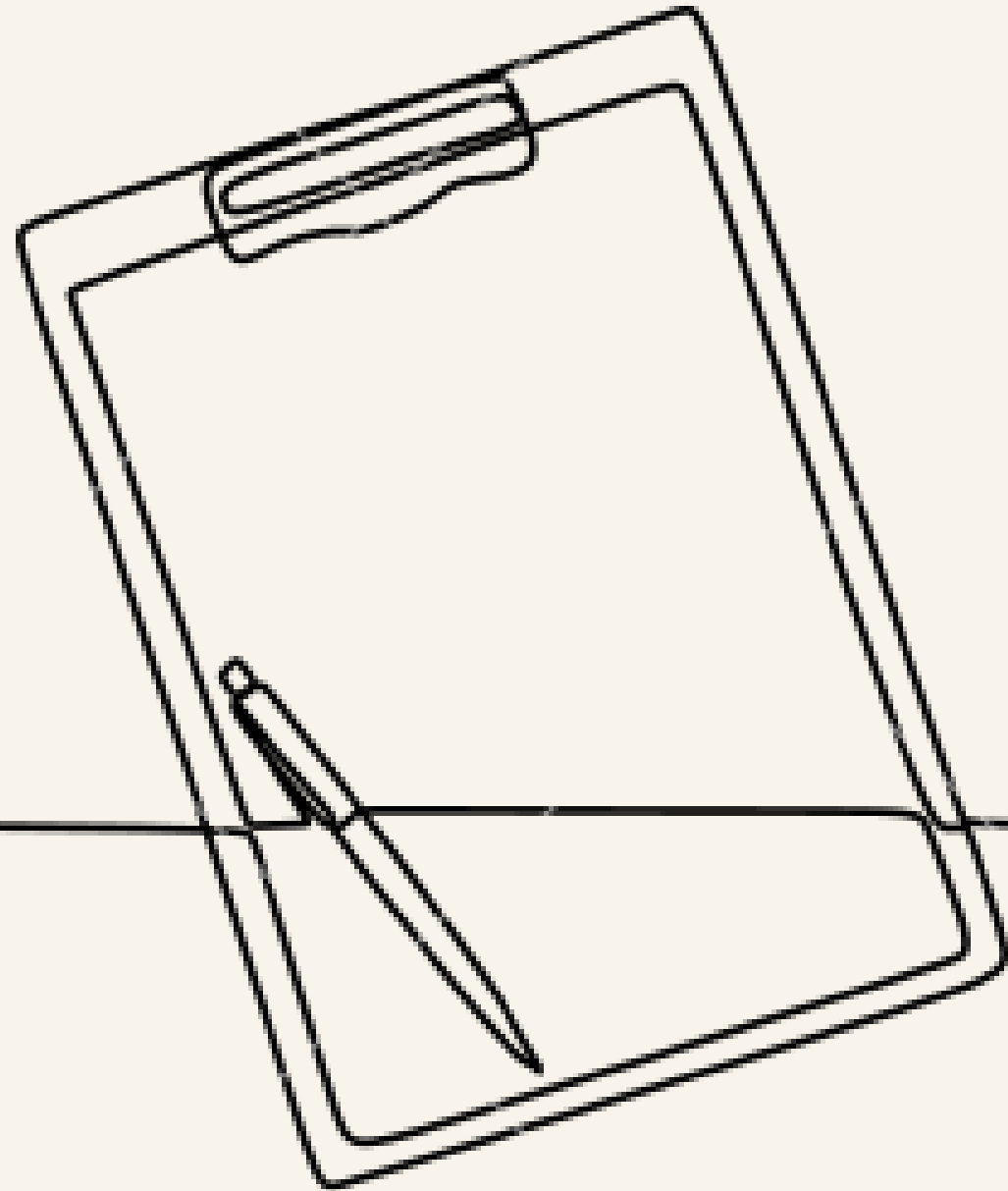
ROADMAP



FUTURE SCOPE

- This is a technology idea, hence can be implemented using any other smart code.
- The application can be provided to educational institutes on subscription basis.

FAQ



- How is the case of a person giving their phone to their friend for marking attendance handled?
 - What would happen if a student says that his phone has stopped working, and he would not be able to give attendance?
-
- What if the projector stops working suddenly?
 - What if the attendance is being taken inside auditorium, and the projection screen is far away?

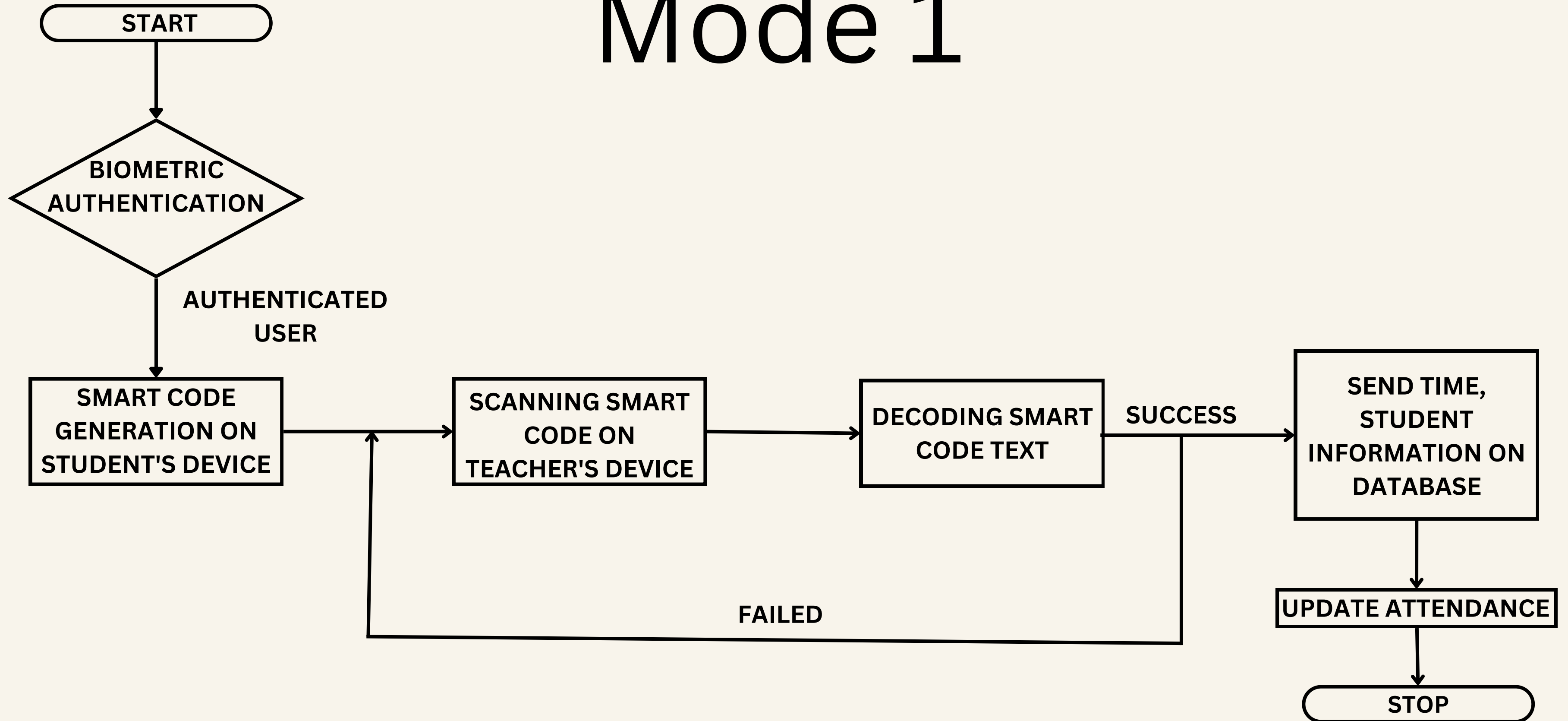
- What if the teacher's phone stops working during mode 1? How will attendance-taking continue?
- During mode 1, what if a student takes a screenshot of his QR Code and sends it to his friend who is attending the lecture?
- What if student changes his details in his Profile to the details of other student, and then marks attendance of other student as well?
- What if a student has 2 mobile phones?
- What if the student makes a video call to his friend during mode 2?



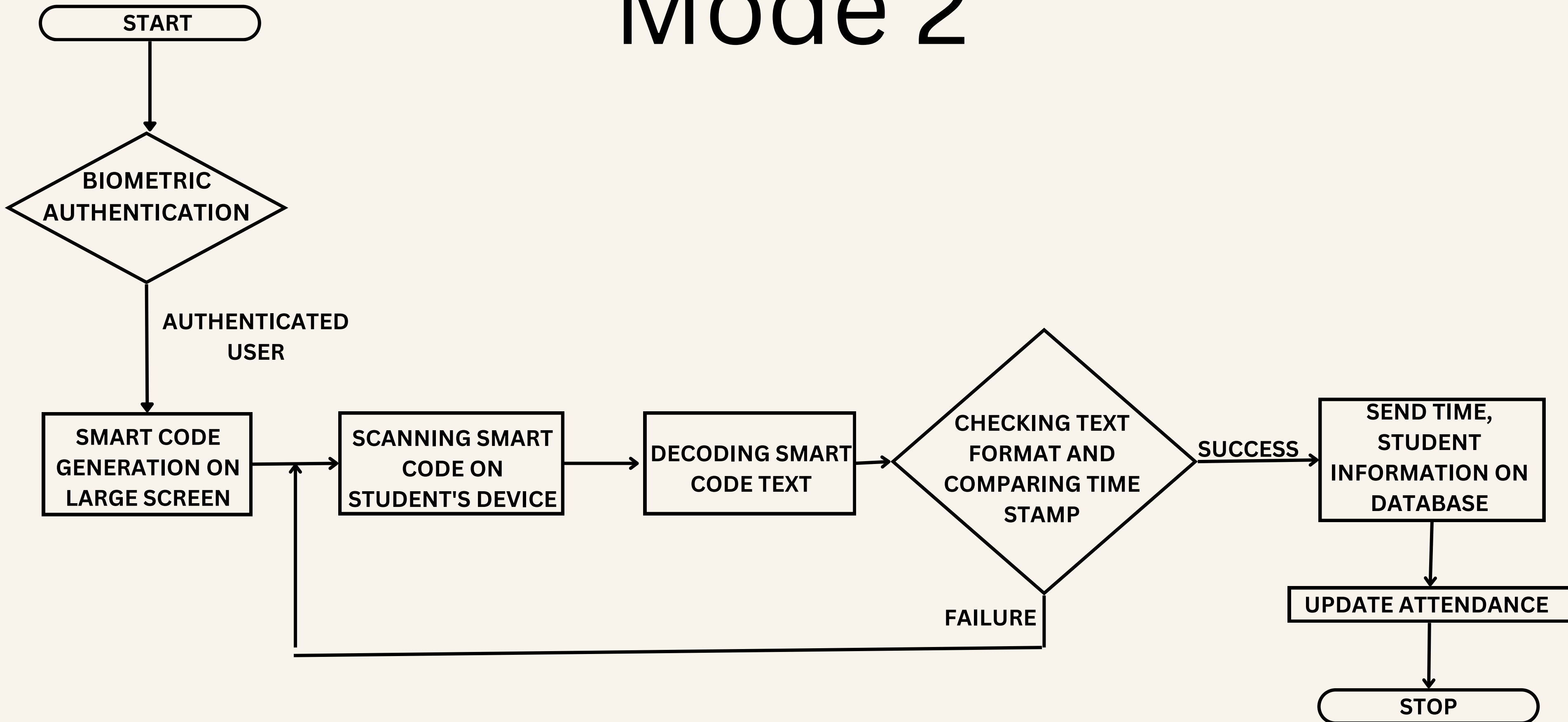
THANK YOU!

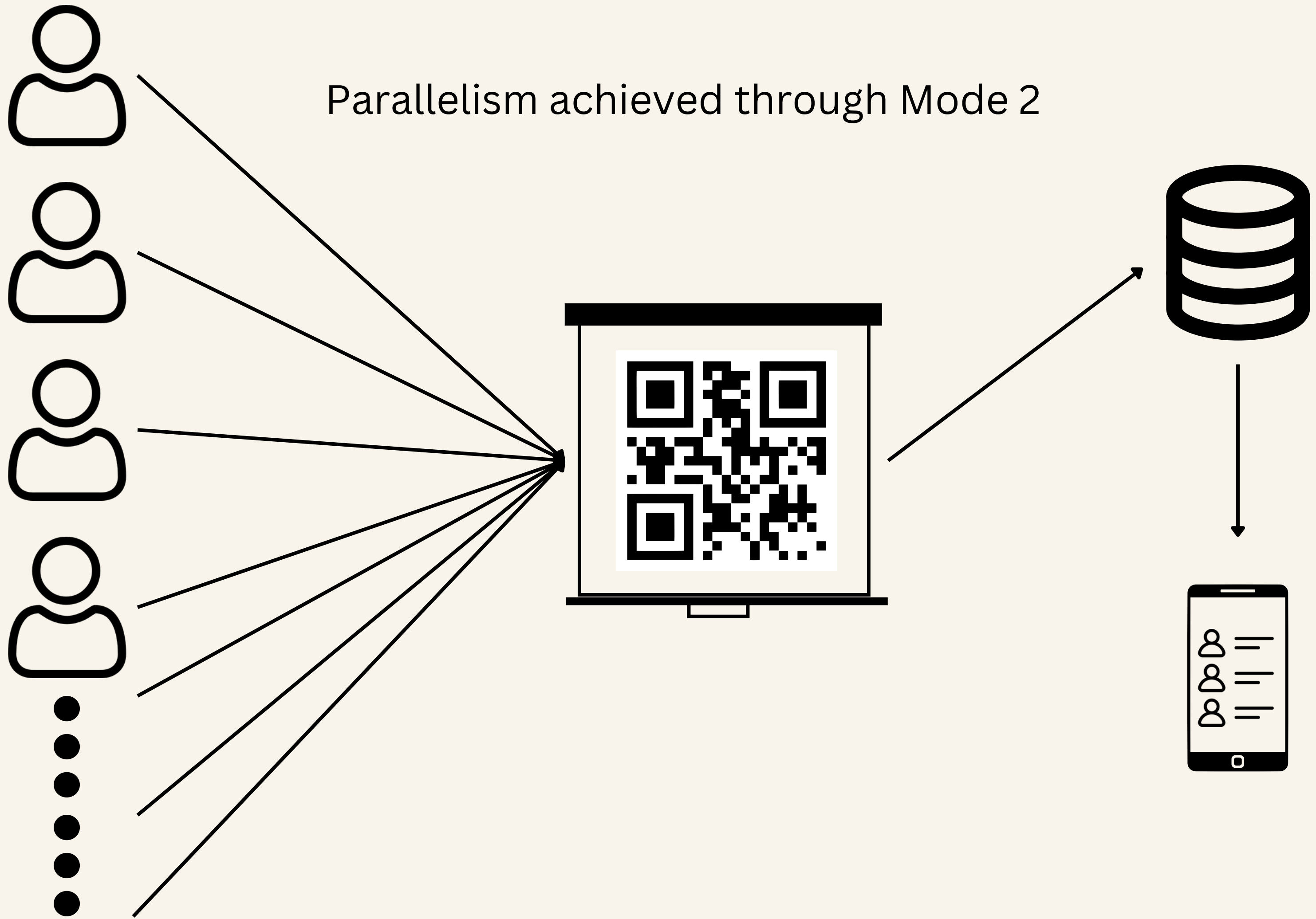
All extra things which we don't
want in main PPT flow but still
want it to be ready

Mode 1

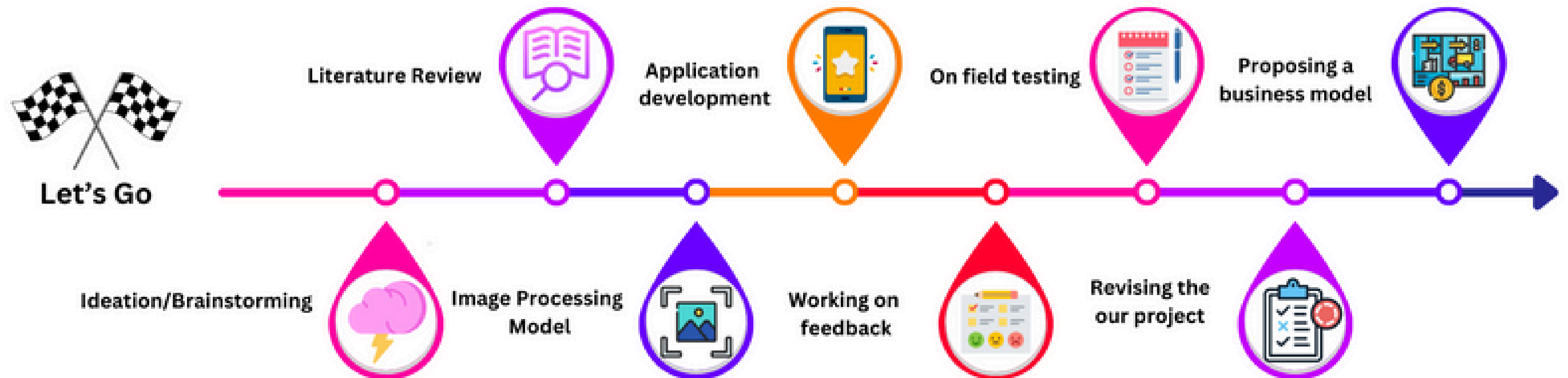


Mode 2





Roadmap



Conclusion