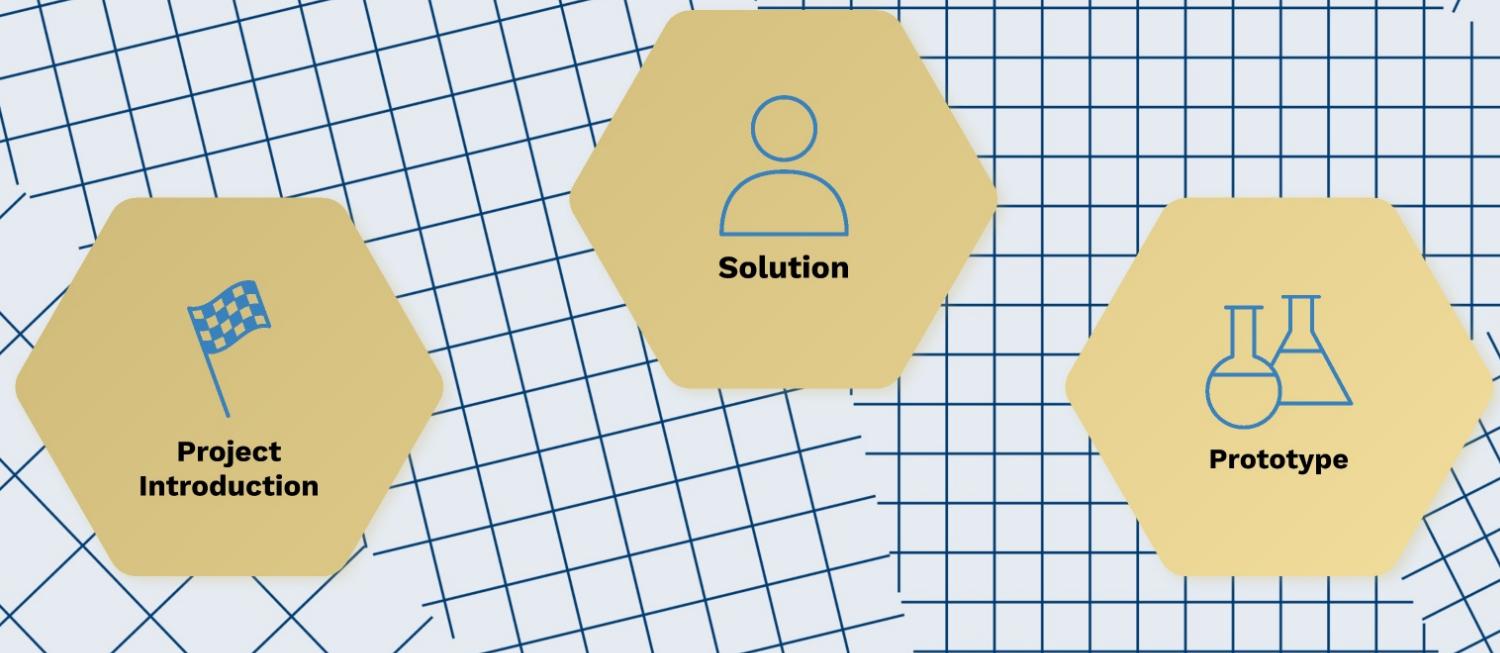


Intelligent Attendance System for MNREGA workers



Project Introduction



The idea is to implement a smart, fool-proof and corruption-free attendance system for MNREGA workers.

Problem Statement



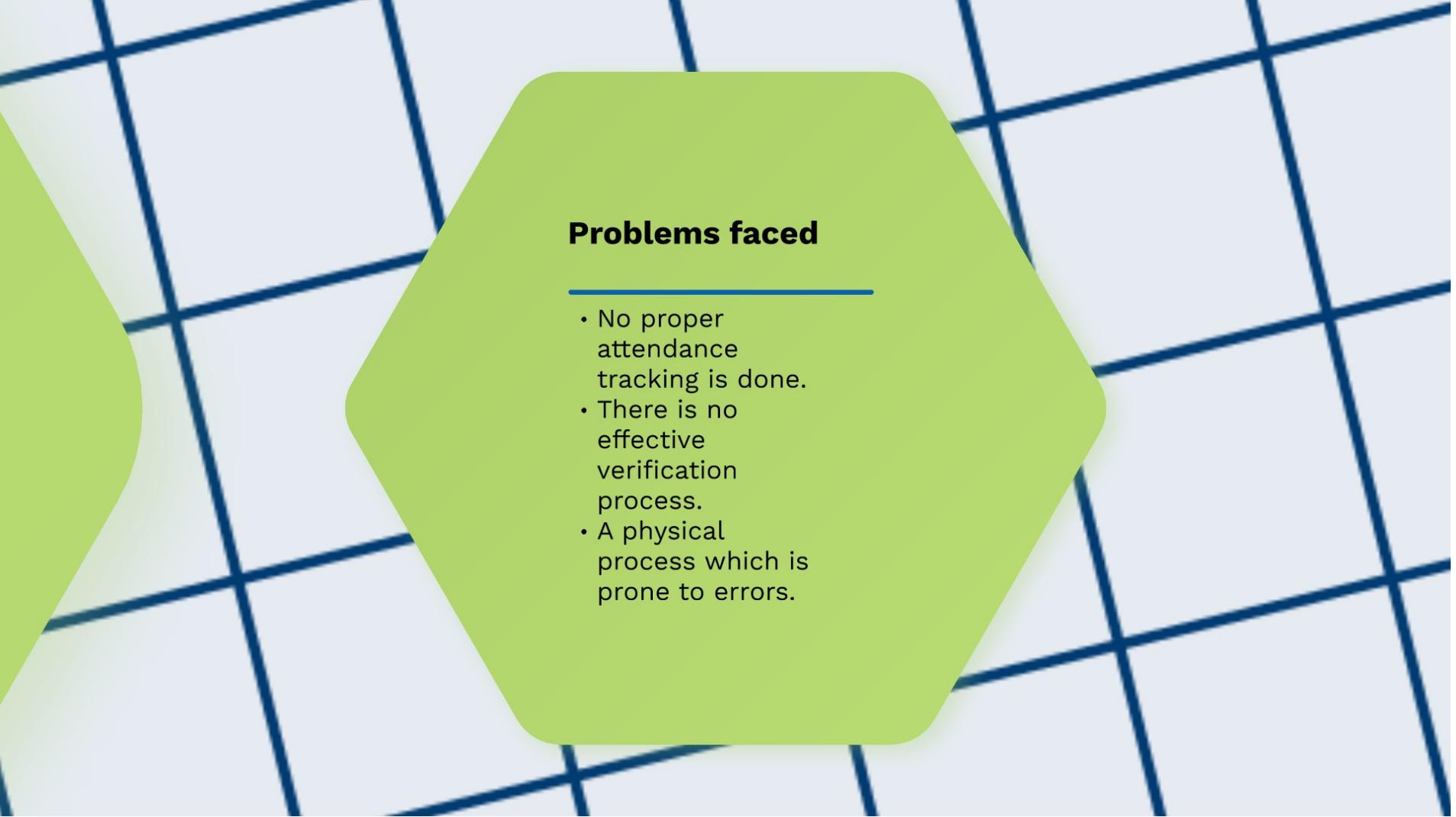
Problem Statement



Under MGNREGA, wage payment is made to workers doing unskilled work and subsequent creation of assets. A muster roll is prepared (consisting of list of workers who are working on a particular asset/work) and attendance is entered. Based on no of days attended/worked, the payment is released.

Problems Faced





Problems faced

- No proper attendance tracking is done.
- There is no effective verification process.
- A physical process which is prone to errors.

Intelligent Attendance System for MNREGA workers



Solution

An AI-based system capable of being transparent and at the same time, extremely efficient.

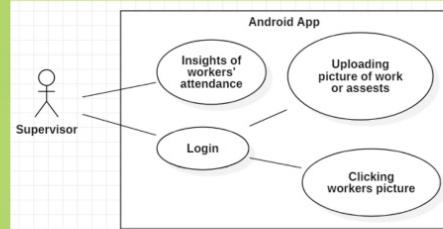
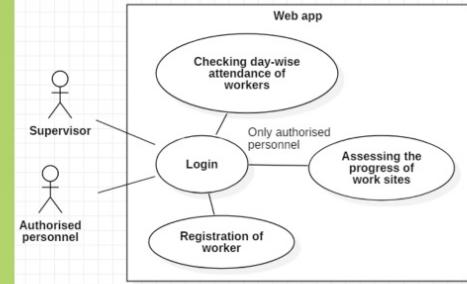


Methodology

Showstoppers

Tech Stack

Methodology



Showstoppers

Improper
Lighting
Condition

Smartphone
is a must

Internet
Availability

Tech Stack

ANDROID
• JAVA
• MONGODB
• MAPS API

MACHINE
LEARNING
• MTCNN
• FaceNet

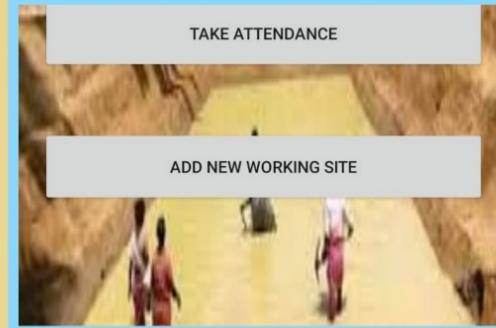
WEB
• FLASK
• API
• HTML,CSS,
JavasCript

Intelligent Attendance System for MNREGA workers



Prototype

Here is a sample implementation of our system.

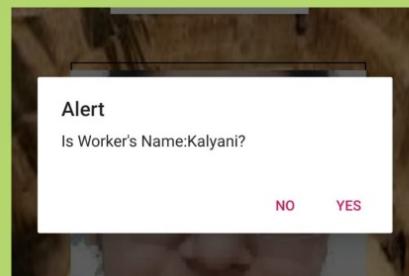


Prototypes

WEB

Notification

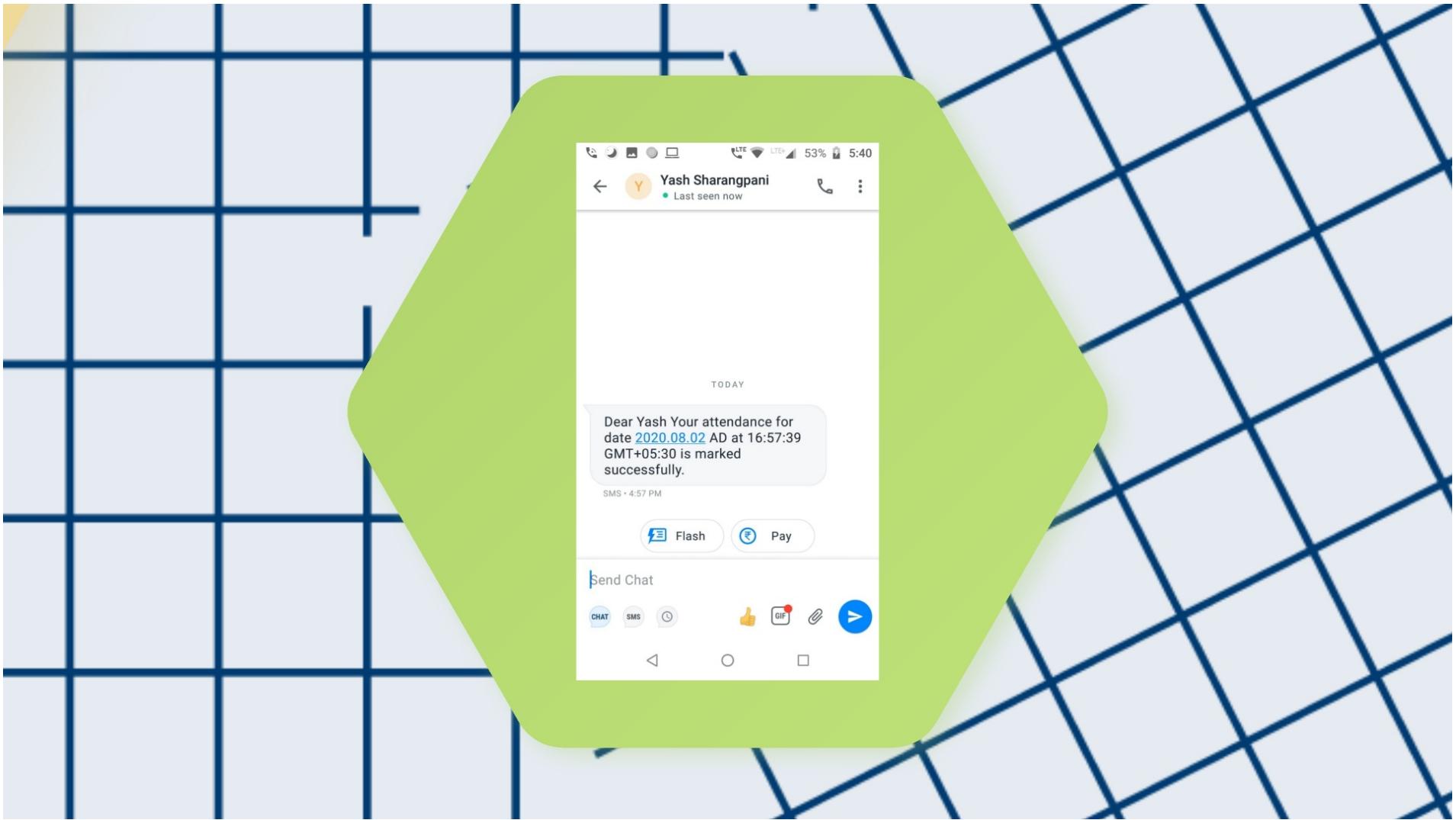
More Snapshots



WEBSITE SNAPSHOTS

A screenshot of the same web application showing a table of attendance records. The table has columns for SNo, Name, Worker ID, Date Present, Latitude, Longitude, and Location. The data shows 10 entries for "Yash Sharangpani" from August 2, 2020, with coordinates around 22.718605, 75.008773.

SNo	Name	Worker ID	Date Present	Latitude	Longitude	Location
1	Yash Sharangpani	28020	Sunday, August 2, 2020	22.718605	75.008773	
2	Yash Sharangpani	28020	Sunday, August 2, 2020	22.718605	75.008773	
3	Yash Sharangpani	28020	Sunday, August 2, 2020	22.718605	75.008773	
4	Yash Sharangpani	28020	Sunday, August 2, 2020	22.718605	75.008773	
5	Yash Sharangpani	28020	Sunday, August 2, 2020	22.718605	75.008773	
6	Yash Sharangpani	28020	Sunday, August 2, 2020	22.718605	75.008773	
7	Yash Sharangpani	28020	Sunday, August 2, 2020	22.718605	75.008773	
8	Yash Sharangpani	28020	Sunday, August 2, 2020	22.718605	75.008773	
9	Yash Sharangpani	28020	Sunday, August 2, 2020	22.718605	75.008773	
10	Yash Sharangpani	28020	Sunday, August 2, 2020	22.718605	75.008773	



Intelligent Attendance System for MNREGA workers

