

# SECURE SPHERE

Project: Safety and Security in Schools And Institutions

## Team Members:

Atharva Deshmukh  
Avani Kulkarni  
Sayali Gangurde  
Gayatri Patil  
Omkar Gaikwad  
Sandesh Tadkase  
Ruturaj Sonawane

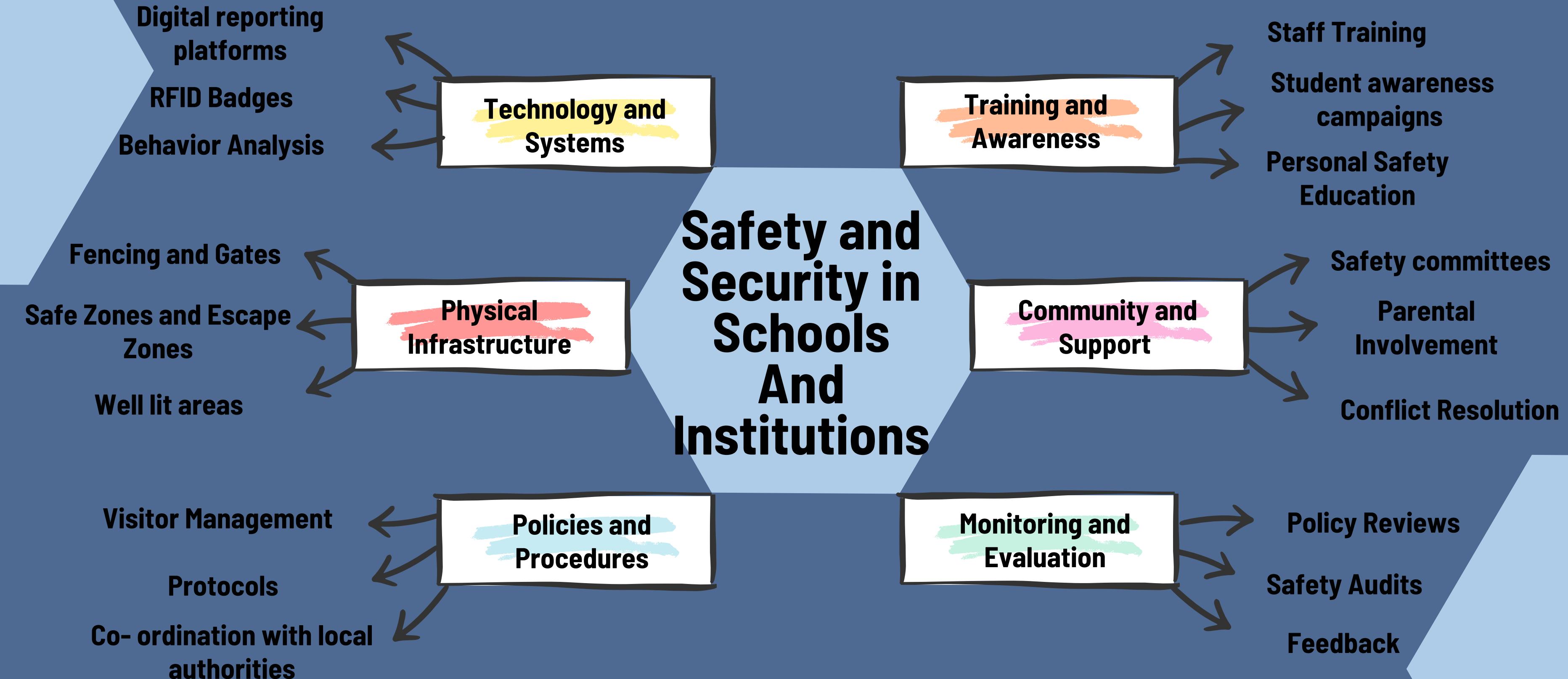


# Problem Statement

Managing visitors is a very challenging task, especially at peak hours and high-task days in schools and Institutions. Managing the crowd is often time-consuming and manual. Generally, There's no proper collection and Data recovery of visitors as Paper forms are used to write the information about Visitors. In short, in this fast-paced world with beginning security conscious, this traditional approach falls short of expectations. These entries can lead to inaccuracies in logs.



# MindMapping Activity



# Persona 1: Student

## Background:-

- Generally Teenagers
- From varied backgrounds
- Engaged in after-college activities
- Concerned about bullying

## Challenges Faced:-

- Sustain a chaotic environment
- Focusing on Academics
- Handling Peer Pressure
- Balancing School/Academics with personal responsibilities

## Motivation:-

- Taking initiatives for secure environment
- Enhancing Academic Performances
- Ensuring peer safety
- Desire for a supportive community

## Doubts and Fears:-

- Worried about being targeted or bullied
- Fear of raising safety concerns
- Overcoming emergency situations
- Following security protocols

## Aspirations:-

- Attending a college where safety is the foremost priority
- Contributing to a healthy and positive campus
- Improve Security measures

## Summary:-

Neha is a teenage girl belonging from upper middle class background. She worries about campus safety while balancing her studies. The supportive campus community allows her to focus on her studies and enjoy college life.

## Persona 2: Parents And Guardian

### Background:-

- Different and varied educational backgrounds
- Experiences in personal and social security
- Issues focus on maintaining family values
- Supporting children education

### Challenges faced:-

- Ensuring children safety and well-being
- Balancing family and personal goals
- Managing financial constraints

### Motivation:-

- Healthy Development of children
- Inbuilt Morals and basic values in children
- Developing independence in children

### Doubts and Fears:-

- Safety and Security Concerns
- Managing Finance
- Responsibility as a parent/Guardian

### Aspirations:-

- Looking forward to see His/Her child successful
- Raising independent and capable children
- Improve financial conditions

### Summary:-

Mister & Misses sharma,Parents of neha are deeply concerned about their child's safety security at college. They seek strong security measure,such as emergency responce plans,campus security,anti ragging.This peace of mind allows parents to trust the institution while their child focusses on their education.

# Persona 3: Security Personnel

## Background:-

- Generally middleaged individual
- From middle-class background
- Has a strong sense of responsibility
- Trained in security protocols

## Challenges Faced:-

- Balancing personal life with work-life.
- Long working hours.
- Handling Administrator's pressure.
- Dealing with risks and emergencies .

## Motivation:-

- Taking initiatives for secure environment.
- To ensure a safe environment to everyone.
- Strong sense of duty towards the sector.

## Doubts and Fears:-

- Worried about being targeted or bullied
- Fear of raising safety concerns
- Overcoming emergency situations
- Following security protocols

## Aspirations:-

- Aspires to get higher post within the sector.
- Recieve badges and certifications for the work

## Summary:-

A secured and experienced officer Ram who is committed to protecting the students,staff, and faculty,with an experience of 2-4years,seeks to prevent security incident and trust the school community.He makes use of communication tools for maintaining a secure environment.

# Persona 4: Administrator

## **Background:-**

- Born and Brought up in a middle-class family where education was highly valued
- Holds degree in Education and Management
- May have a doctorate in education
- Maybe the person has starts his/her career as a prof.

## **Challenges Faced:-**

- Balancing Budgets and implementing new measures
- Effectively dealing with crisis
- Accepting new Tech solutions

## **Motivation:**

- Ensuring Student Safety
- Maintaining the reputation of the institutions
- Taking the Institute to new heights and reach high standards

## **Doubts and Fears:-**

- Dealing with privacy concerns
- Keeping up with stakeholder's trust
- Implementation of accurate safety measures

## **Aspiration:-**

- Be an innovative leader
- Maintaining stakeholders trust and gain promotions
- Make a positive impact

## **Summary:-**

School administrators are responsible for maintaining a safe learning environment. They face challenges in preventing unauthorized access, managing emergencies, and ensuring overall campus security. A smart security system would help them monitor and respond to potential threats efficiently, ensuring the safety of students and staff.

# 5W and 1H

Aspect	Questions	Answers
Who	Who is affected by the problem?	Students, teachers, staff, and visitors within institutions.
What	What exactly is the issue?	The issue involves ensuring effective measures to prevent and respond to safety threats, such as unauthorized access, bullying, or violence, while maintaining a secure and supportive environment for everyone.
Where	Where does the problem occur?	The problem occurs within educational institutions like schools, colleges, and universities, as well as other institutions such as libraries and community centers.
When	When does this problem arise?	The problem can arise at any time, including during school hours, extracurricular activities, or events, and it may vary from routine occurrences to emergency situations.

# 5W and 1H

Aspect	Questions	Answers
why	Why are security audits important ?	To find vulnerabilities and ensure compliance.
how	How are security system integrated into a facility ?	By using centralized management software.

# Theory of Prioritization

Visitor Management was selected as our Prioritized topic with the total and highest points of 6100 after we collectively performed the activity of Theory of Prioritization

Problem	10 points	100 points	1000 points	Total Points.
Numerous Data thus system logs		✓ ✓ ✓	✓ ✓ ✓ ✓	4300
Data Security		✓ ✓	✓ ✓ ✓ ✓ ✓	5200
Improper detection system	✓	✓ ✓ ✓ ✓ ✓	✓	1510
Insufficient training	✓ ✓	✓ ✓ ✓ ✓	✓	1420
Limited areas under surveillance	✓ ✓	✓ ✓ ✓ ✓ ✓		520
Parental administration Concerns	✓ ✓	✓ ✓ ✓	✓ ✓	2320
Poor integration	✓	✓ ✓ ✓ ✓ ✓	✓	1510
Lack of response under emergencies situation.	✓	✓ ✓	✓ ✓ ✓ ✓	4210
Cyber Bullying and data hacking	✓ ✓	✓ ✓ ✓ ✓ ✓		520
Accuracy Problem	✓ ✓	✓ ✓ ✓	✓	1320
Visitor Management		✓	✓ ✓ ✓ ✓ ✓	✓ 6100
Student Management	✓	✓ ✓ ✓ ✓ ✓	✓	1510
Maintainance Issue	✓ ✓	✓ ✓ ✓ ✓	✓	1420
Poor incident traking , alarming system		✓ ✓ ✓	✓ ✓ ✓ ✓	4300
Inadequate system	✓ ✓	✓ ✓ ✓ ✓ ✓		520
Outdated System	✓ ✓	✓ ✓ ✓	✓ ✓	2320
Lack of trasparency	✓	✓ ✓ ✓ ✓ ✓	✓	1510

# SCAMPER ACTIVITY

Substitute|Combine|Adapt|Modify|Put to Another Use|Eliminate|Reverse

Tools Selected: Adapt and Modify

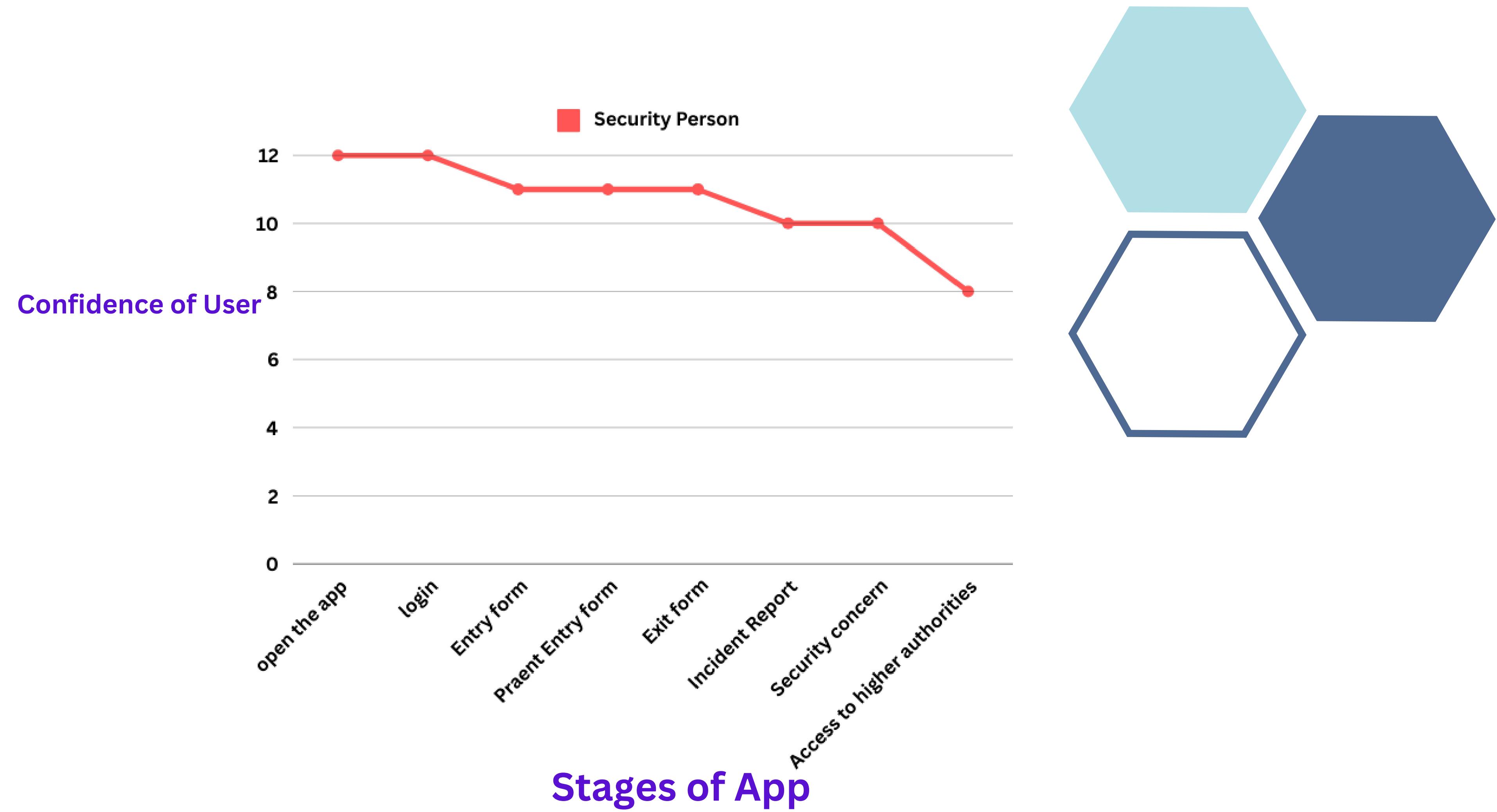
## Adapt

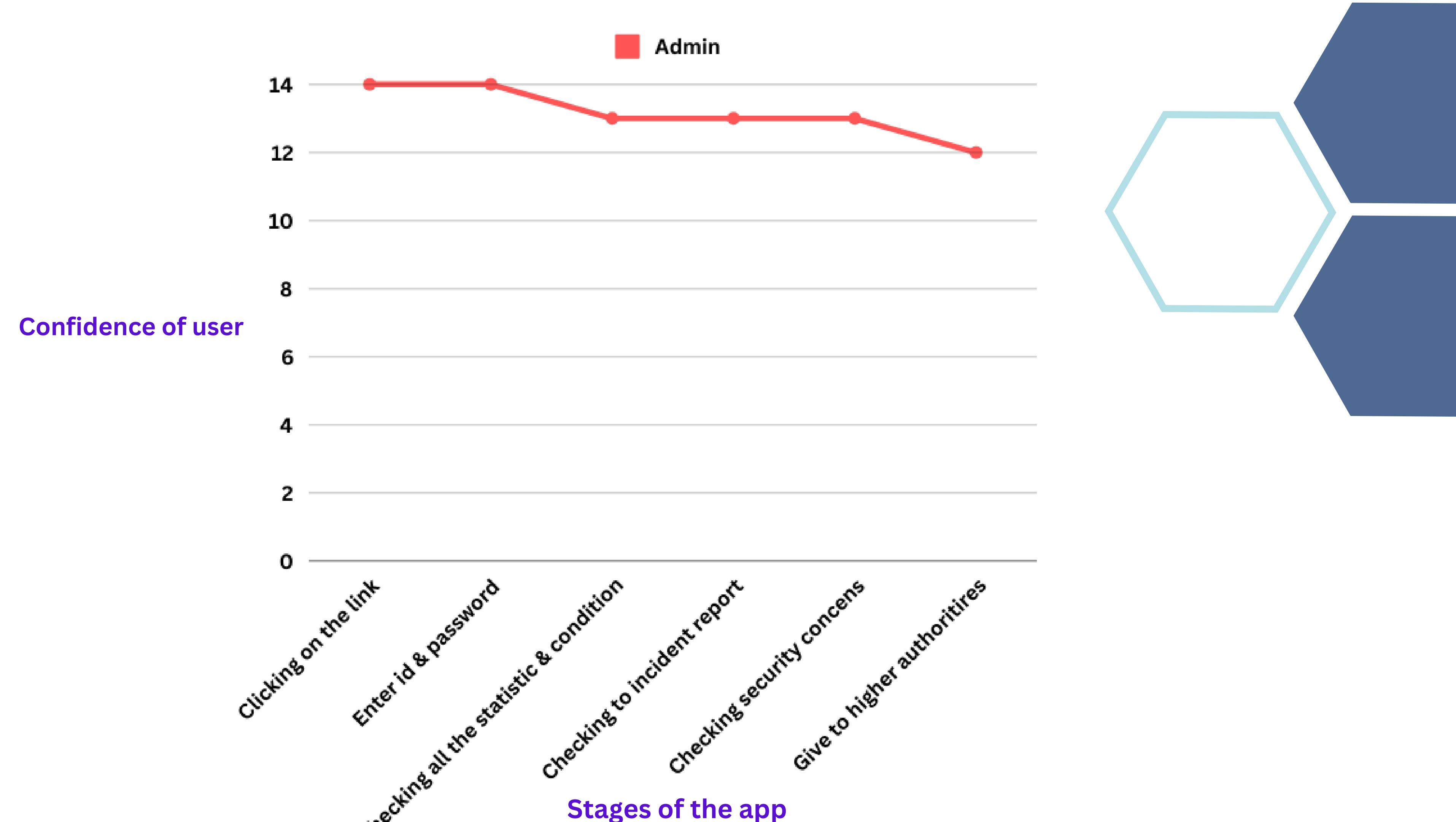
We are adapting the QR code scanning system from UPI for the reach to the visitors . We are also adapting the sign in with email from google . Including the google cloud and forms for collecting and storing the data.

## MODIFY

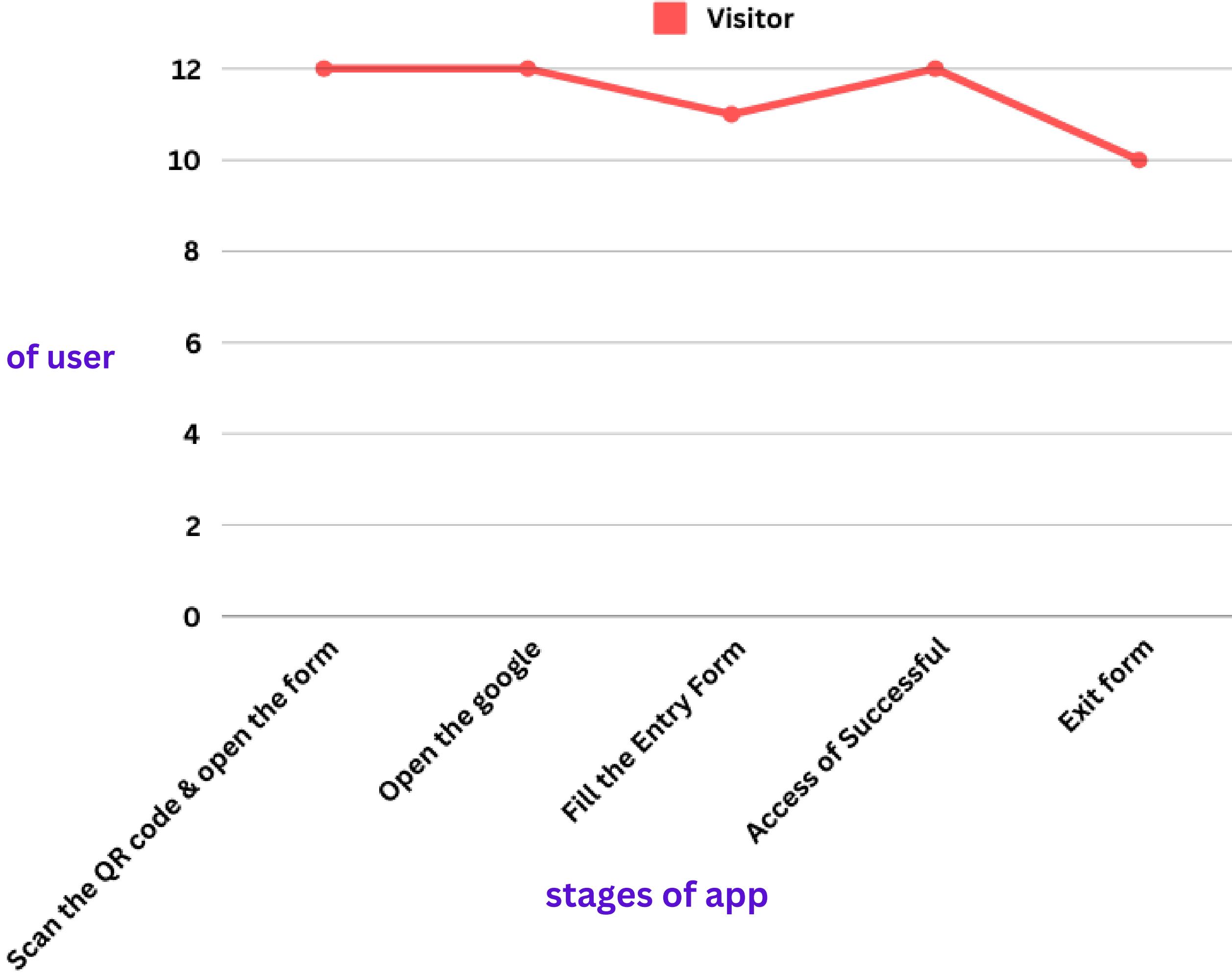
We have used ' modify ' as a Tool as we have considered the existing system of QR's as in UPI and modify it for our system for the sake of self check-ins and check-outs etc.







**confidence of user**



# Welcome Back!

**Username or Email**  
Enter your Email

**Password**  
Enter Your Password

**Log In**

9:13 9:14 9:14 9:14 9:15

## Welcome back

Entry forms  
Parents entry forms  
Exit Forms  
Incident Reporting  
Security Opinions

Home ← Entry form (Responses)

Form Responses 1

Timestamp	Email Address	Enter Your Full Name
11/25/2024 1:11:26	shrutipatharkar1122@gmail.com	Shruti Patharkar
11/25/2024 1:14:54	adityashinde1136@gmail.com	Aditya Shinde
11/25/2024 2:16:00	shrutipatharkar1122@gmail.com	Vaibhavi Manish Fulda

← Parents entry form: (Responses)

Form Responses 1

Timestamp	Email Address	Enter Your Full Name	Enter Name Of T
11/25/2024 1:21:14	shrutipatharkar1122@gmail.com	Mayuresh Bhat	Aditya Shinde
11/25/2024 1:24:26	adityashinde1136@gmail.com	Shruti Pradeep Patharkar	Supriya Gawali
11/25/2024 2:20:32	shrutipatharkar1122@gmail.com	Vaibhavi Manish Fulda	Manisha kale
	gangurdesalli48@gmail.com	Isha Khanna	Neha Khanna

← Exit form

Form Responses 1

Timestamp	Email Address	Enter Full Name
11/25/2024 1:21:14	shrutipatharkar1122@gmail.com	Shruti Pradeep Patharkar
11/25/2024 1:24:26	adityashinde1136@gmail.com	Mrudul kapure
11/25/2024 2:20:32	shrutipatharkar1122@gmail.com	Vaibhavi Manish Fulda

9:14 9:14 9:14 9:14 9:15

home ← home ← home

Incident Report

Sign in to Google to save your progress. [Learn more](#)

\* Indicates required question

**Location \***  
Your answer

**Reason \***  
Your answer

**Action Taken \***  
Your answer

**Brief Description of the Incident: \***  
Your answer

Welcome, Admin!

Security Personnel Logs  
Entry Form Database  
Parents Entry Form Database  
Exit Form Database  
Security Concerns  
Incident Reports  
Logout

Search by email address, phone number, or user UID

Add user

Identifier Providers Created ↓ Signed In User UID

security12@gmail.com	✉	Nov 25, 2024	mKAoKlnkc0gZQf6X97t0Orec...
psyrid751@gmail.com	✉	Nov 22, 2024	SSUJngzHkugrDkHnfP39RZFfl...
atharvadeshmukh12@g...	✉	Nov 22, 2024	so0AAAdXzjscZ4p1rCdxdeHf...

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*Thank  
you*

