

SECURE SPHERE

Project: Safety and Security in Schools And Institutions

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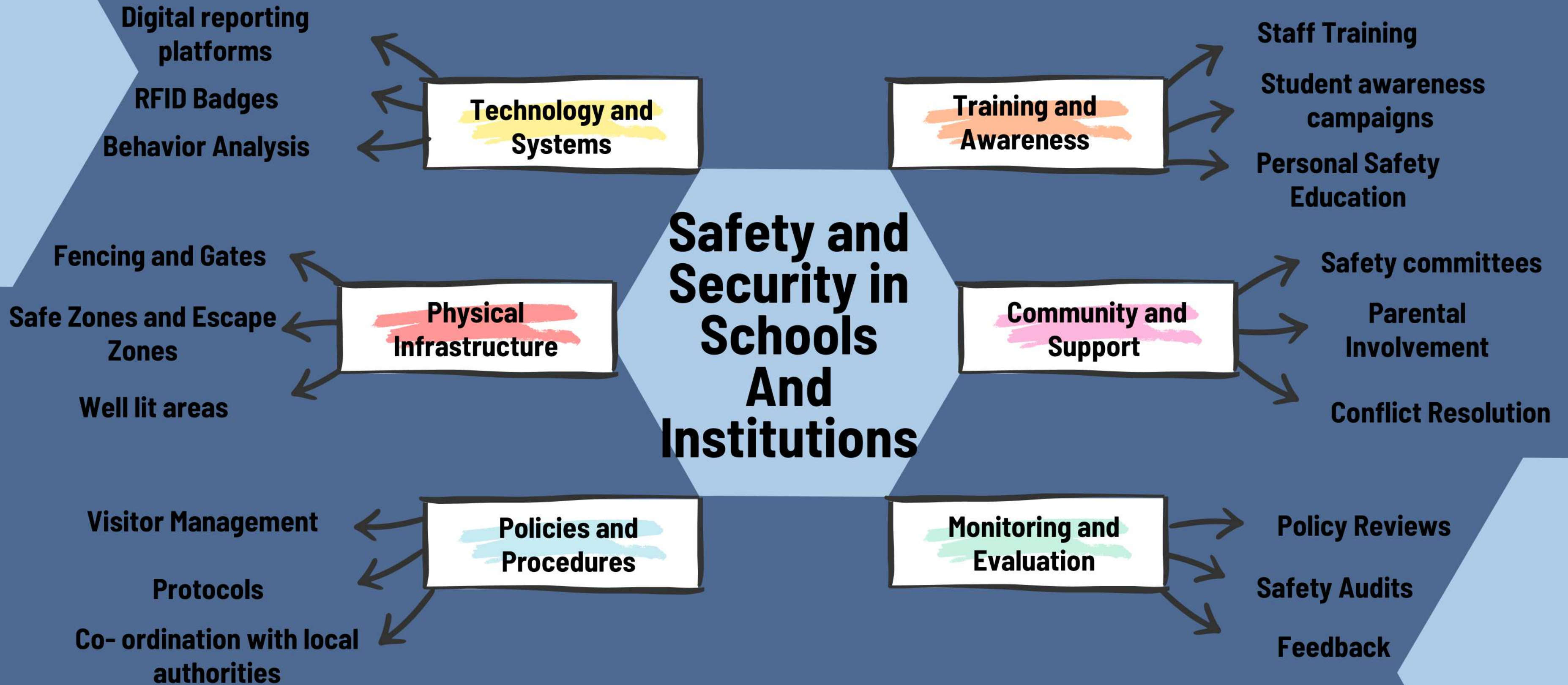


Problem Statement

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
- Inbuiting 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 response 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

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.

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 gin promotions
- Make a positive impact

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 admistration 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 trasperancy	✓	✓✓✓✓✓	✓	1510

SCAMPER ACTIVITY

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

Tools Selected: Adapt and Modify

Adapt

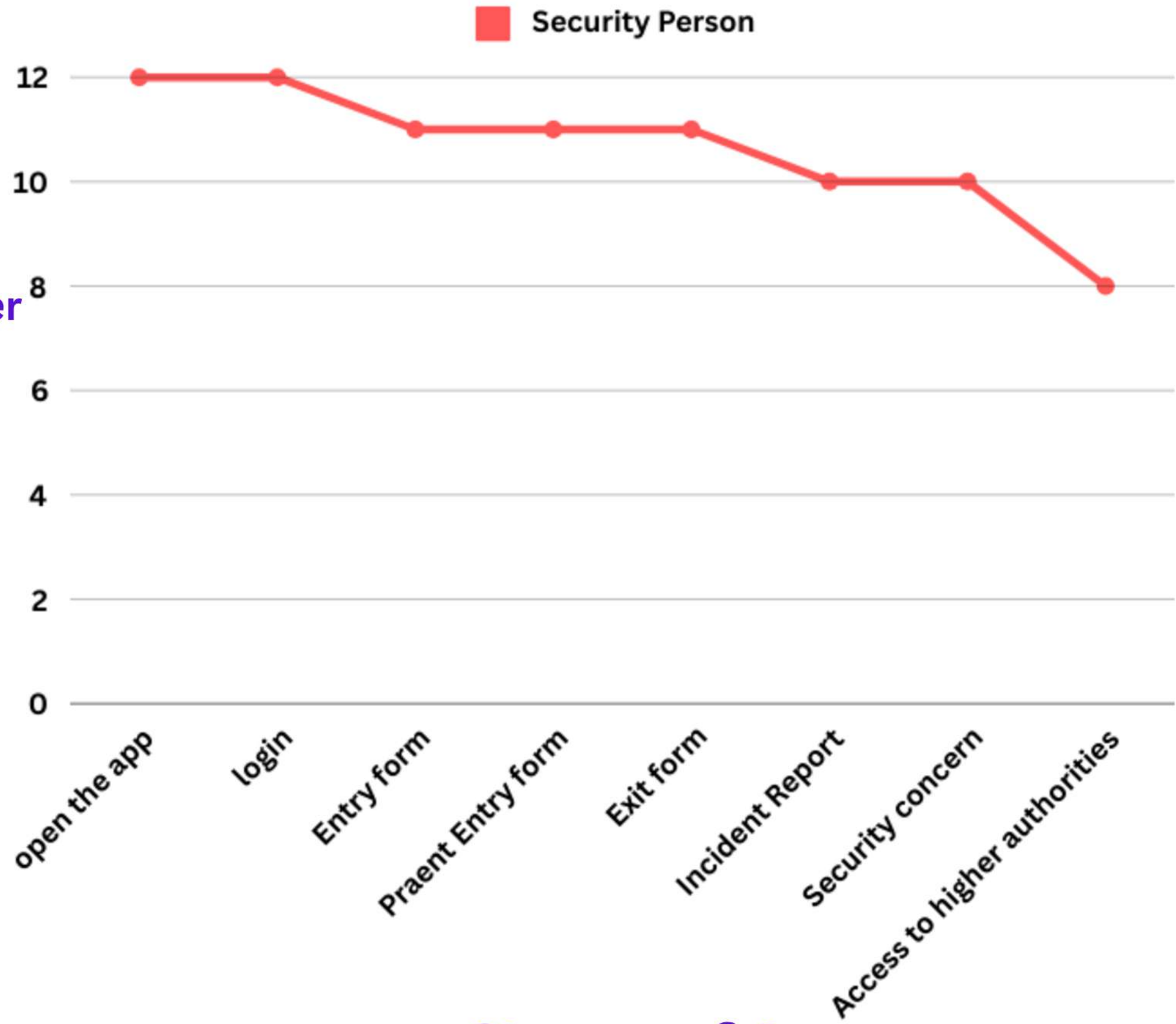
We are adapting the the QR code scanning system from UPI for the reach to the visitors . We are also adapting the sign in with email from google . Including the google cloud and forms for collecting and storing the data.

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.



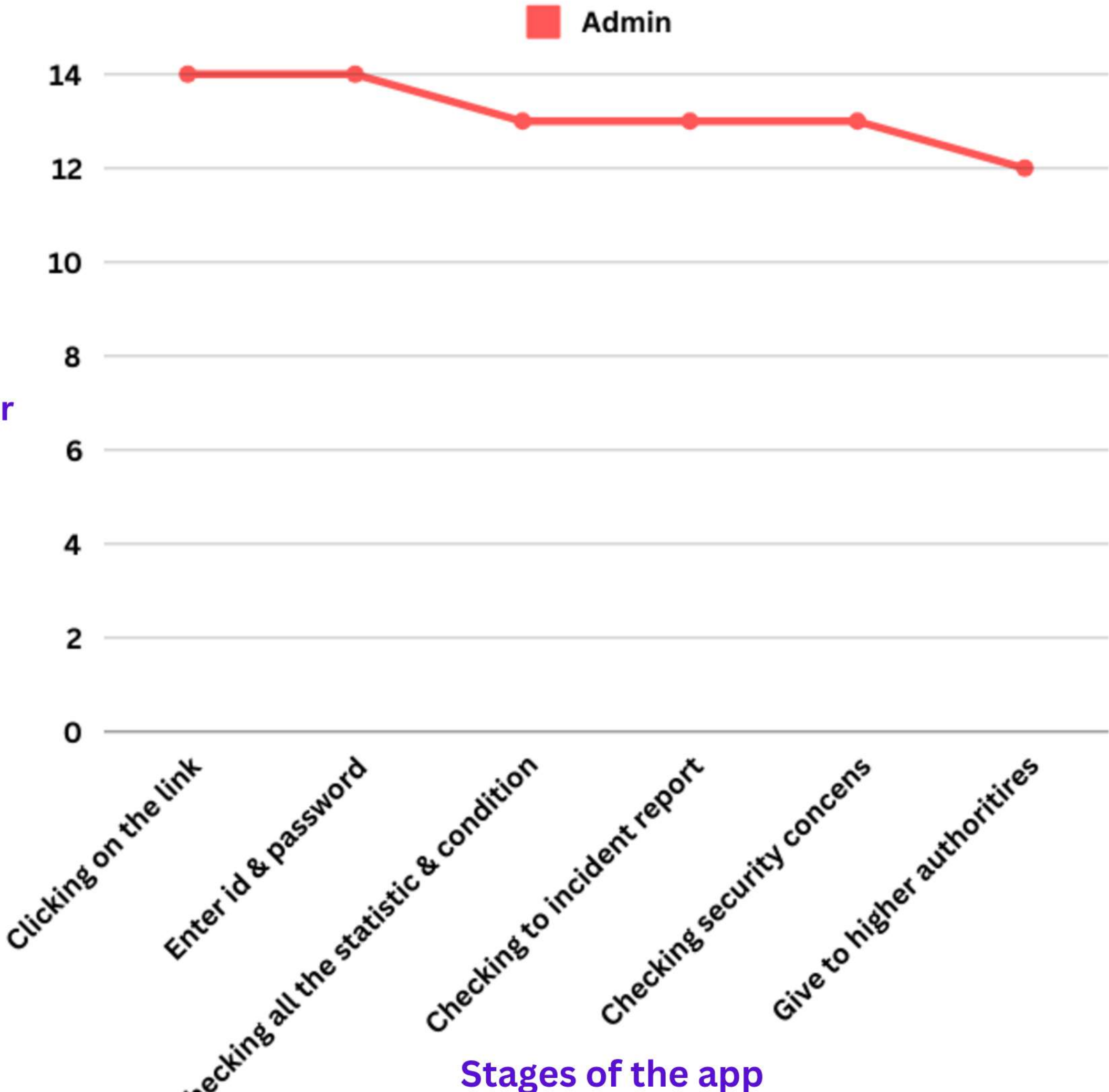
Confidence of User

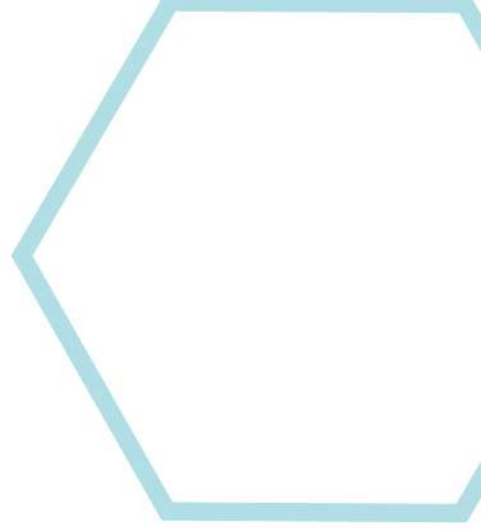
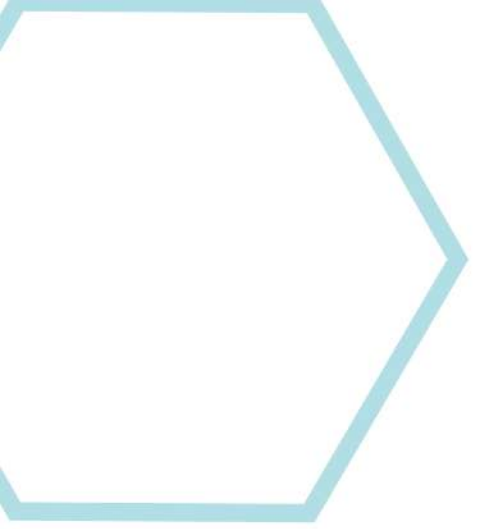


Stages of App

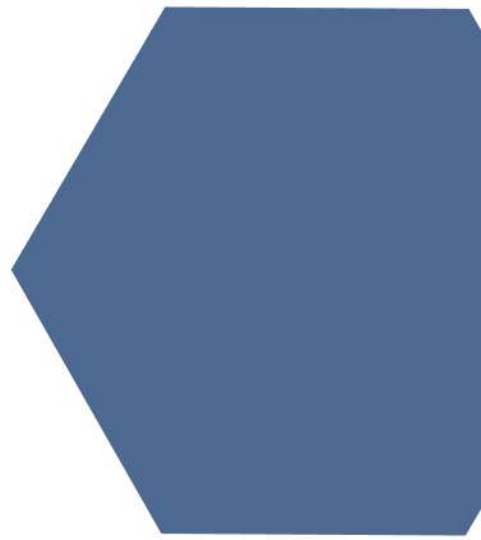
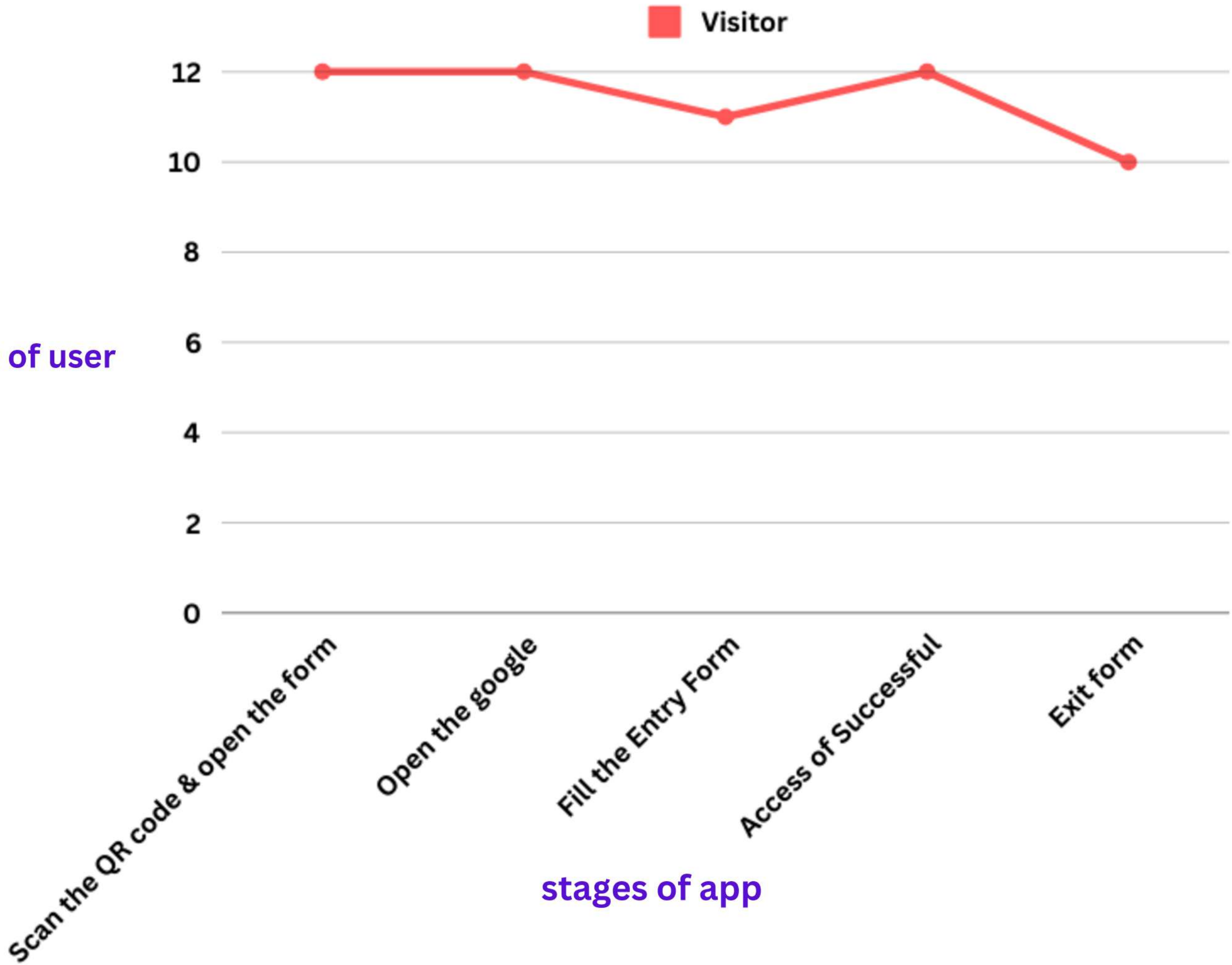


Confidence of user





confidence of user



Welcome Back!

Username or Email

Enter your Email

Password

Enter Your Password

Log In

9:13

🕒 🌐 📶 🔋 92%

Welcome back

Entry forms

Parents entry forms

Exit Forms

Incident Reporting

Security Opinions

Home

← Entry form (Responses)

Form Responses 1

A	B	C
Timestamp	Email Address	Enter Your Full Name
11/25/2024 1:11:26	shrutipatharkar1122@gi	Shruti Patharkar
11/25/2024 1:14:54	adityashinde1136@gma	Aditya Shinde
11/25/2024 2:16:00	shrutipatharkar1122@gi	Vaibhavi Manish Fl

home

← Parents entry form: (Responses)

Form Responses 1

B	C	D
Email Address	Enter Your Full Name	Enter Name Of 1
4 adityashinde1136@gma	Mayuresh Bhat	Aditya Shinde
1 shrutipatharkar1122@gi	Shruti Pradeep Patharkar	Supriya Gawali
7 shrutipatharkar1122@gi	Vaibhavi Manish Fuldahal	Manisha kale
1 gangurdesaili48@gmail.	Isha Khanna	Neha Khanna

home

← Exit form

Form Responses 1

A	B	C
Timestamp	Email Address	Enter Full Name
11/25/2024 1:21:14	shrutipatharkar1122@gi	Shruti Pradeep Pathark
11/25/2024 1:24:26	adityashinde1136@gma	Mrudul kapure
11/25/2024 2:20:32	shrutipatharkar1122@gi	Vaibhavi Manish Fuldal

9:14

🕒 🌐 📶 🔋 91%

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

9:15

🕒 🌐 📶 🔋 91%

home

Security Concerns

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

* Indicates required question

Date of Incident: *

Date

▼

Time of Incident: *

Time

:

▼

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		mKAoKInkc0gZQf6X97t00rec...
psyridr751@gmail.com	📧	Nov 22, 2024	Nov 24, 2024	SSuJngzHkugrDkHnfP39RZFfl...
atharvadeshmukh12@g...	📧	Nov 22, 2024	Nov 22, 2024	so0AAdXzjscZ4p1rCdxdeHf...

Rows per page:

50 ▼

1 – 3 of 3

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*Thank
You*

