



# **TEAM TECH FREAK**

## **PROBLEM STATEMENT:**

Effective use of Cyber Space and Cyber Technology to prevent violence against and trafficking of women and children.

**PS NUMBER:** AS120

## **ORGANIZATION:**

Ministry of Women and Child Development.

**TEAM NAME:** Tech Freak

## **TEAM MEMBERS:**

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**SMART INDIA  
HACKATHON  
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# INTRODUCTION

Trafficking and violence against women and children

- most pervasive violation of human rights
- 72% of all victims worldwide are women and girls.

Technology has played a crucial role in preventing this up to a great extent.

Here we introduce a system application

**“ATMASURAKSHA”** whose features can be beneficial to reduce the rate of trafficking and violence against women and children .



# MARKET SURVEY

## DRAWBACKS OF EXISTING SOLUTIONS:

- Trouble in creating account.
- All features require paid subscription.
- Compulsion of uploading profile picture.(privacy issue)
- Functionality of audio and video recording feature does not work well.
- Response time taken is more.
- No solution available for NO NETWORK SCENARIO .



# OUR MOTIVE

- Is to attempt to rectify the cons of existing apps by developing robust system application.
- To minimize reaction time taken for notifying the near and dear ones about the victim in trouble.
- To develop solution for NO NETWORK SCENERIO
- Thus preventing the women and children from becoming the victims of trafficking and violence to maximum extent.



# KEY FEATURES OF OUR SOLUTION

## 1. Triggering the application by tapping the power button

- User friendly feature.
- Service runs in background.(while the screen is locked)
- Steps of - unlocking the phone
  - opening an application
  - tapping the panic buttonare skipped resulting in quick initiation of service.

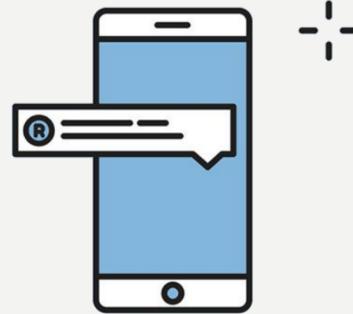
In our solution the above lengthy process is skipped just by pressing the power button.



## □ Pressing the power button

### 3Times:

- Direct option to **call** one of the contacts
- Send them **message** individually.



## □ Pressing the power button 5 Times

- Directly alerts to pre-determined contacts with **current location link**.



**2. Custom Alert Ringtone:** Our solution stands out due to customized alert tone feature.

- This features pulls the attention of the receiver indicating that the victim is in trouble.
- Reduces the chances of missing out the notification by receiver.



### 3. Multi-Linguistic support :

- Makes the application to be more localized.
- app can reach to number of audience.
- Culturally sensitive to understand all the features application
- User friendly Easy



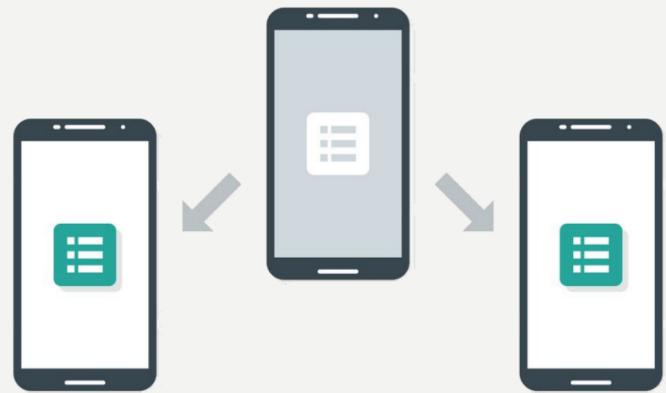
- **4. Multi media support**

- Captures images from the phone which can be useful as evidence
- Media is uploaded on firebase and notified to police.

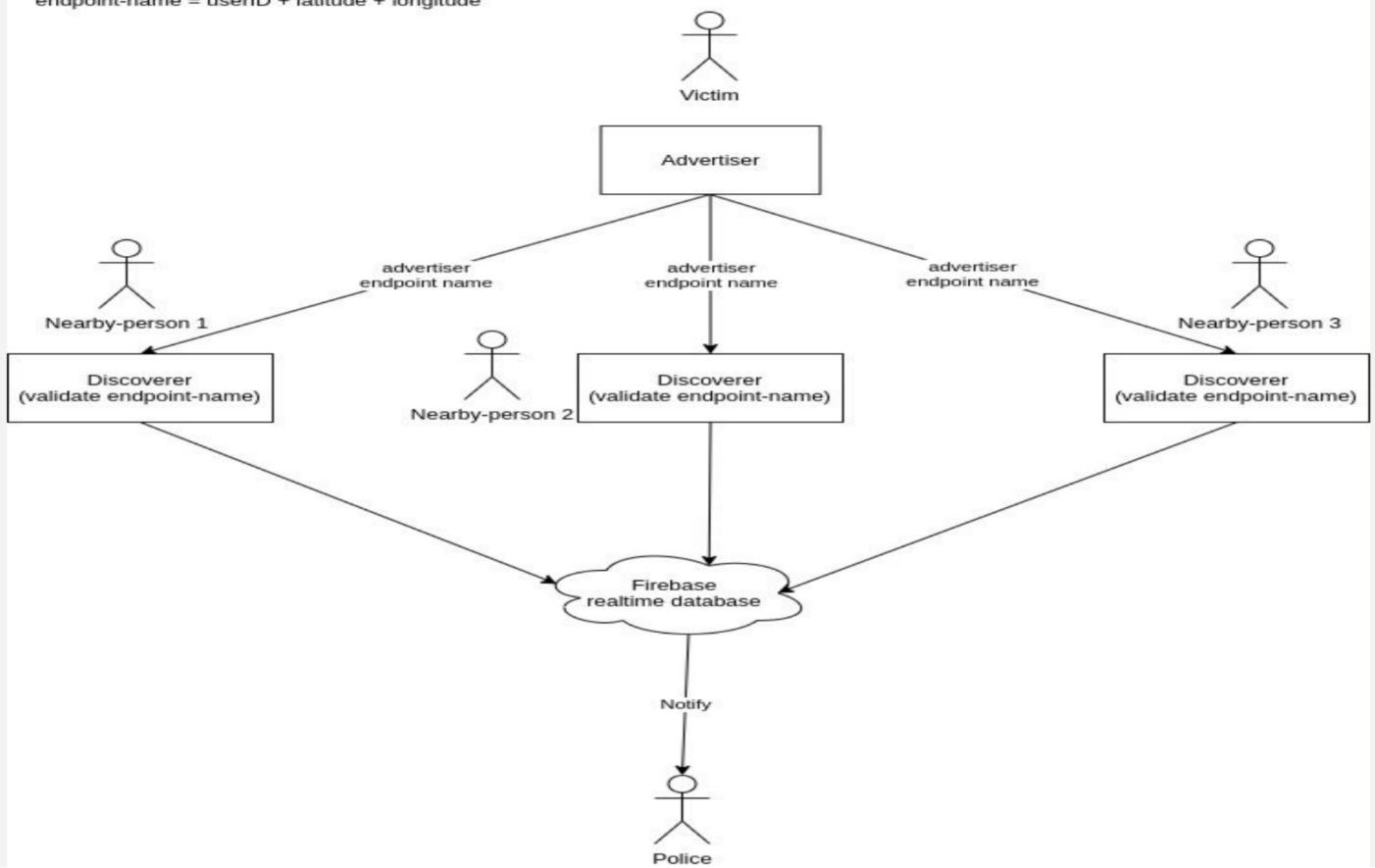


## **5. No network scenario: Star Topology Network**

1. Peer to Peer Bluetooth Star Networking with the use of Google nearby API
2. Bluetooth 5.0 range:
  - with distortion up to 50 m
  - Without distortion up to 250 meters
3. Information to be broadcasted :
  - Current Location of victim.
  - Victims Special UUID
4. Use of firebase as real time database to collect the broadcast from final transmitting device and notifying local authorities.
5. The uuid of nearby devices can be stored in database which can be helpful in further investigation.



endpoint-name = userID + latitude + longitude



- Extreme scenario: In the extreme scenario, emergency number **112** is automatically dialled multiple times automatically.



## **5. Introduction to “COP SOS” :**

- This feature intends to involve police .
- Application present at the police end.
- Incremental radius search.
- customised alert tone on automatic assignment of complain.
- Details of the victim are sent to on duty cops within a defined perimeter .
- Direct navigation towards victim.
- Monthly complain report.



# FLOW OF OUR SOLUTION

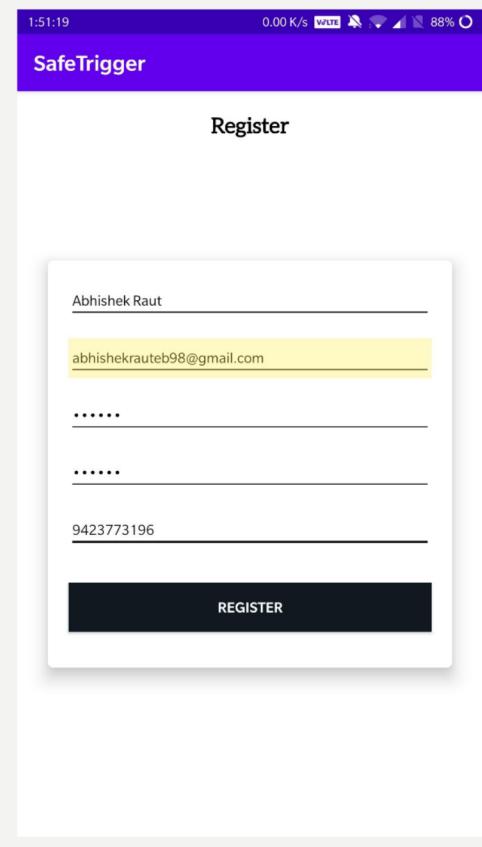
1. **Registration:** The user has to register providing the following details

Name

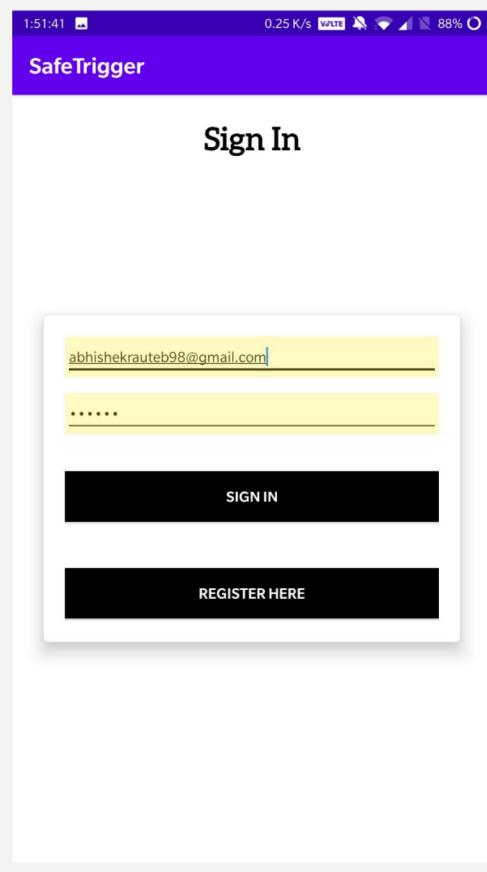
Email id

Set password

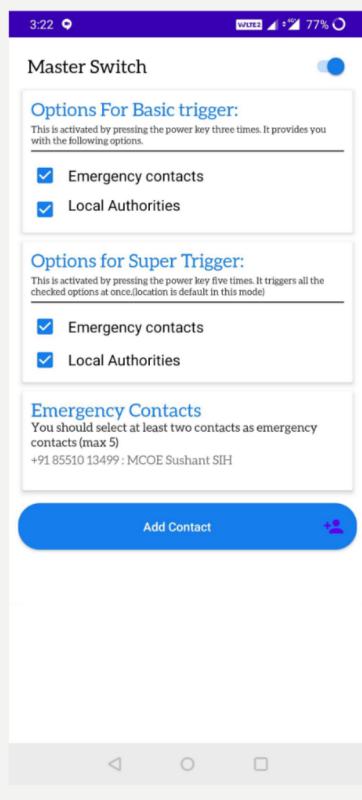
Phone number



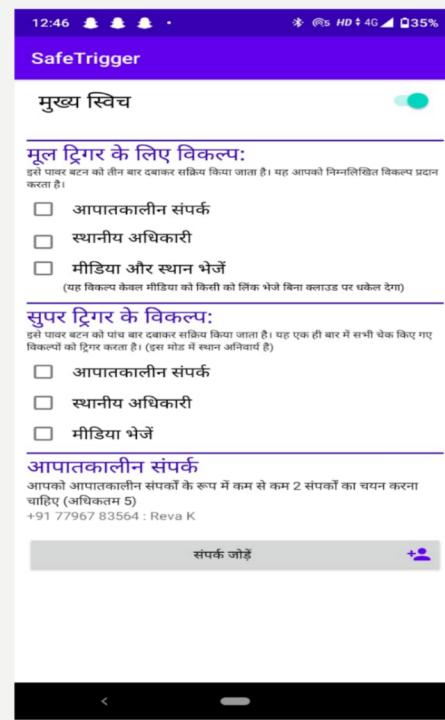
- **2.Login/Sign in:** Enter email id and password to sign in.



### 3. Application setup



### Multilingual support

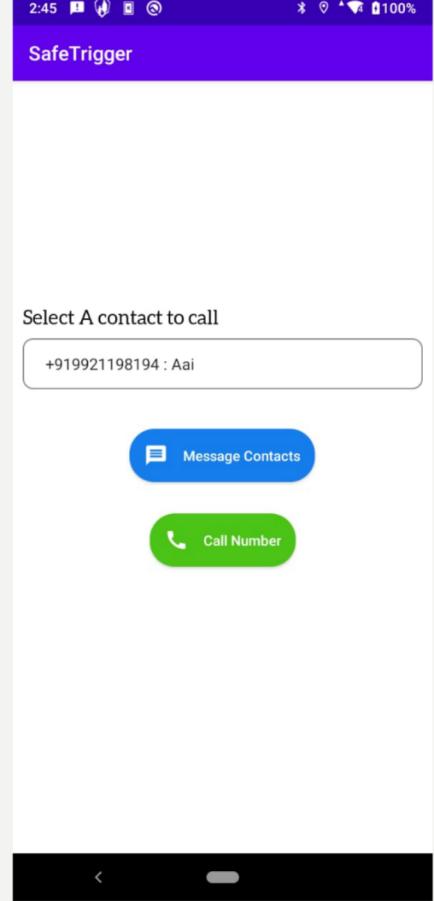


- **Implementation of 3 – tap trigger**

This pop up occurs after pressing the power button 3 times on the lock screen itself.

If time permits one can call or message to the predefined contact list.

Note: After 3 trigger if no activity takes place from victims side for next 20 seconds , then the super trigger gets automatically activated.

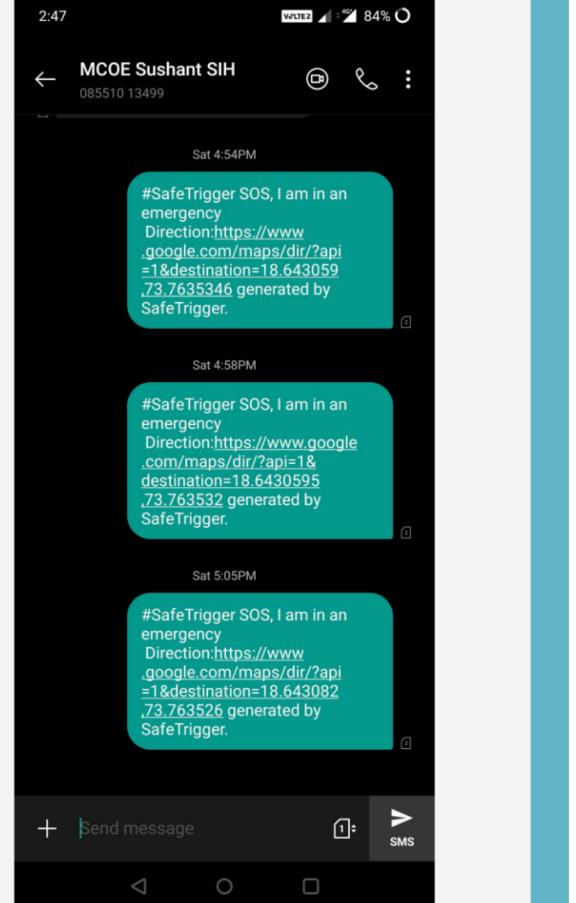


- **Implementation of 5 – tap trigger**

- This is a super trigger which automatically send a text message providing the following information.

- 1. #Safetigger SOS , I am in emergency

- Location link of victim



- **COPSOS** – an application at police end

The police has to register providing the following details

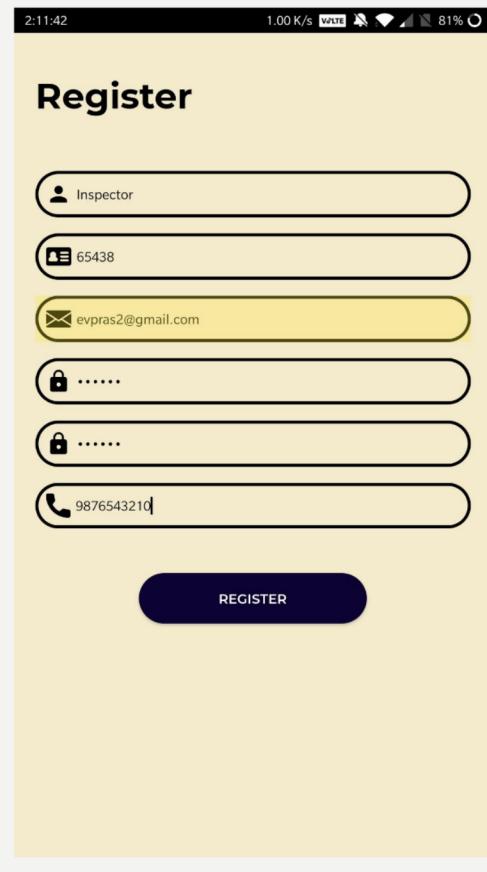
Name

unique id

Email id

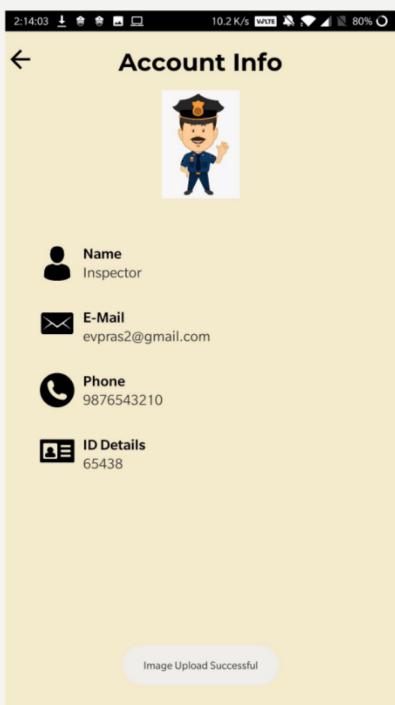
Set password

Phone number



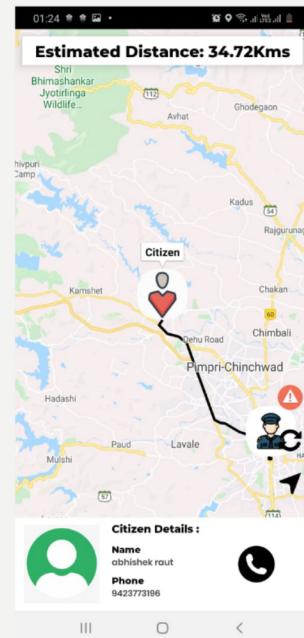
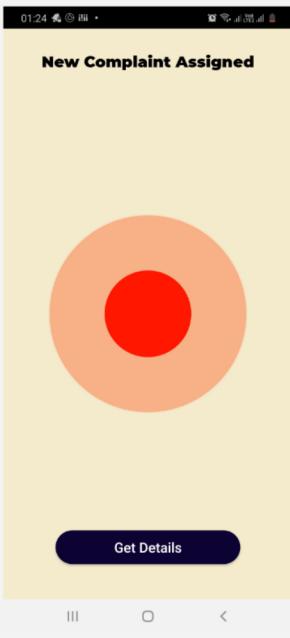
Now the account is created successfully.

Status of cop: ON DUTY



Emergency alert from victim notified with a customised alert tone.

1. Option to navigate towards victim's location
2. Option to call the victim





**THANKYOU**