SMART INDIA HACKATHON

★ **MINISTRY CATEGORY**
  ➢ MINISTRY OF WOMEN AND CHILD DEVELOPMENT

★ **PROBLEM STATEMENT**
  ➢ EFFECTIVE USE OF CYBER SPACE AND CYBER TECHNOLOGY TO PREVENT VIOLENCE AGAINST AND TRAFFICKING OF WOMEN AND CHILDREN

★ **PROBLEM CODE**
  ➢ AS120

★ **TEAM NAME**
  ➢ EZ4US

★ **TEAM LEADER**
  ➢ BHAJAN SINGH KANDARI

★ **TEAM MEMBERS**
  ➢ BHAJAN SINGH KANDARI
  ➢ PURANJAN PRITHU
  ➢ MILAN KANDWAL
  ➢ SORAV NEGI
  ➢ ASTHA ASWAL
  ➢ MUKESH BAHUGUNA

IDEA DESCRIPTION

➢ Developing an **Android Application** for victim that will alert the Authorities & our **network** of users so that the help reaches to the victim ASAP. The App also **records & saves the evidence to server** to prevent a possible mishappening.

➢ **In Case of an Emergency**
  ❑ Start the App, Tap on the SOS button. Your location and your basic details (Photo, Name & Age) will be sent to the nearby users of the App.
  ❑ Location will also be sent to the Emergency contacts and the local authorities in that area (Police, Ambulance etc.)
  ❑ The Application will secretly record audio and click photos and upload them to the server for further investigation.
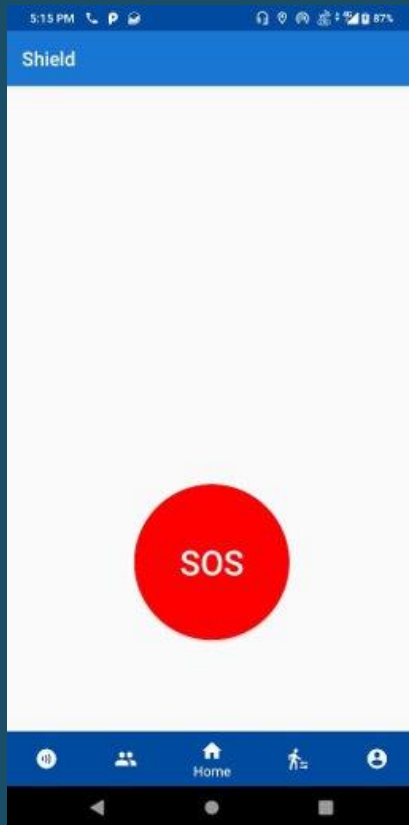
➢ **In Case of Domestic Violence, Trafficking, Harassment**
  ❑ Video is recorded, which is them compressed and saved automatically to the server as an evidence.
  ❑ An option for audio recording is present which is also uploaded to the server automatically.
  ❑ A short documentation is available on the Domestic Rights.
  ❑ A separate tab of live database is available on the Application which shows the trafficking data of different states.
  ❑ Users can report incidents related to trafficking on this tab, which can be investigated by police and concerned authorities.
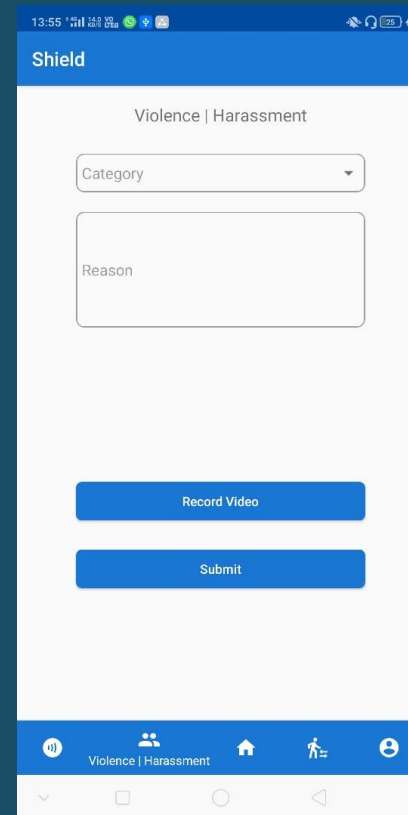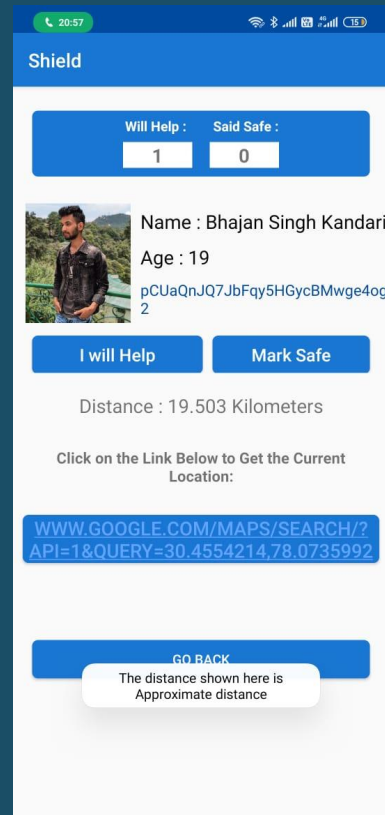
How The App Works

The App is Divided into 2 Categories

1. SOS Help

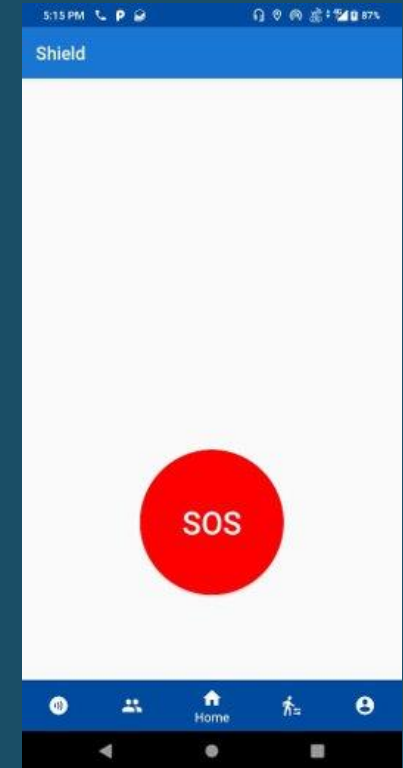### 2. Harasment, Voilence, Trafficking.

How The App Works

SOS Feature

❑ **Location :** GPS location Service is used to provide the location of the User.
❑ **Alerting The Network :** Firebase Service , along with text messaging(text being Independent of Internet) is used to alert nearby Authorities and the users of the application.

After Signing Up to the App, User is taken to the page to set up his/her profile and also set up his her emergency contacts.

When someone presses the SOS button, the **location** of that person along with **name** and **photo** for identification is sent to the **authorities** nearby users to help the victim.
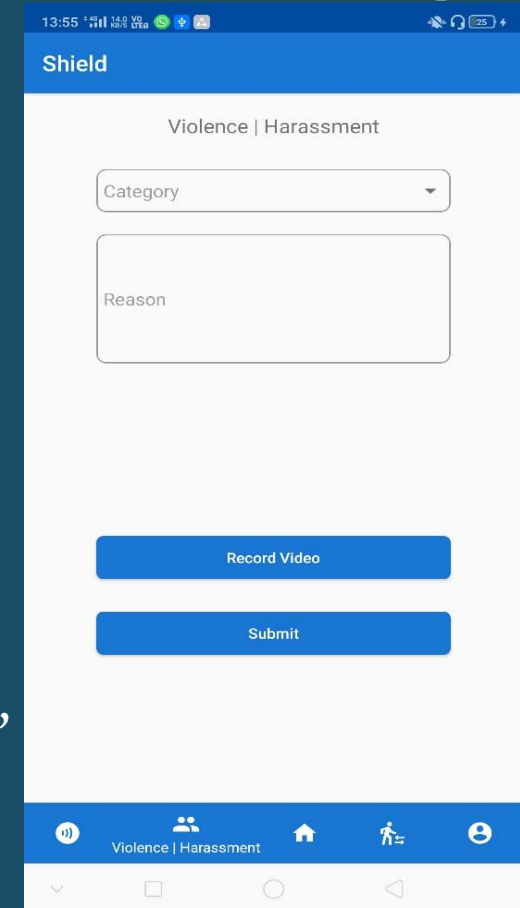
How The App Works

Voilence, Harrasment, Trafficking

❑ A seperate page of submitting complaints about domestic voilence, sexual harassment, traffficking is avilable. The page contains following features:
  ❑ Type of exploitation the person is facing or complaining about.
  ❑ The reason behind it.
  ❑ Option to record video/evidence.
  ❑ When the victim/user clicks on sumit button the complaint along with your details is sent to the server which can be easily viewd by the authority.
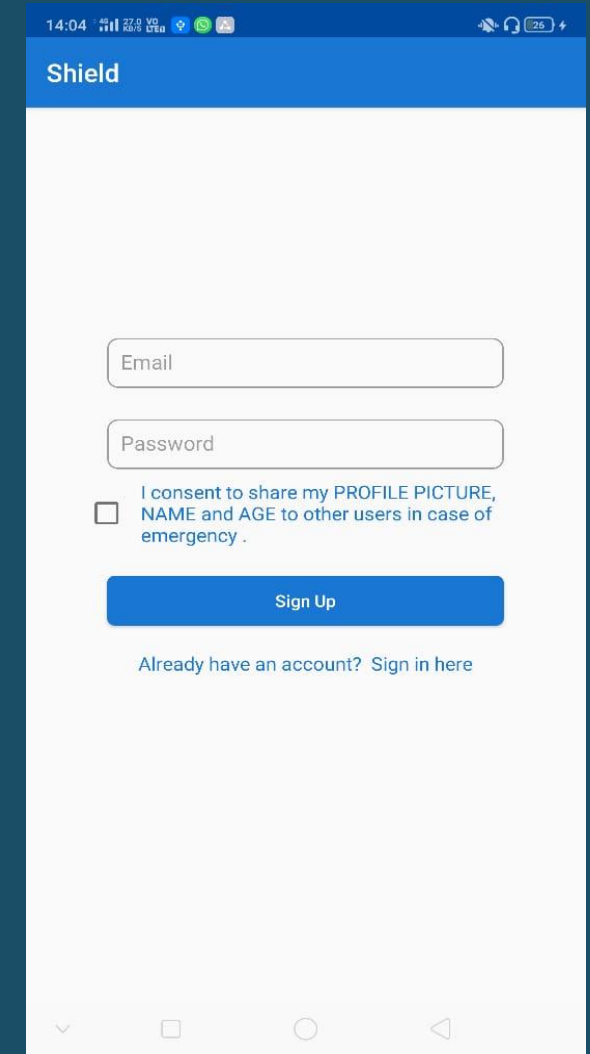
THIS INFORMATION IS ONLY VISIBLE TO THE AUTHORITIES (Police, Govt. Officials only)

Features Of the App

➢ User Sign Up – Which is verified by google firebase to avoid fake accounts.

➢ Multilingual Support – The app has support for multiple languages with just 2 clicks user can change the language of the app.

➢ The consent of the User is taken to send out their basic details(PHOTO, NAME, AGE only) when he or she needs SOS help (Emergency help).
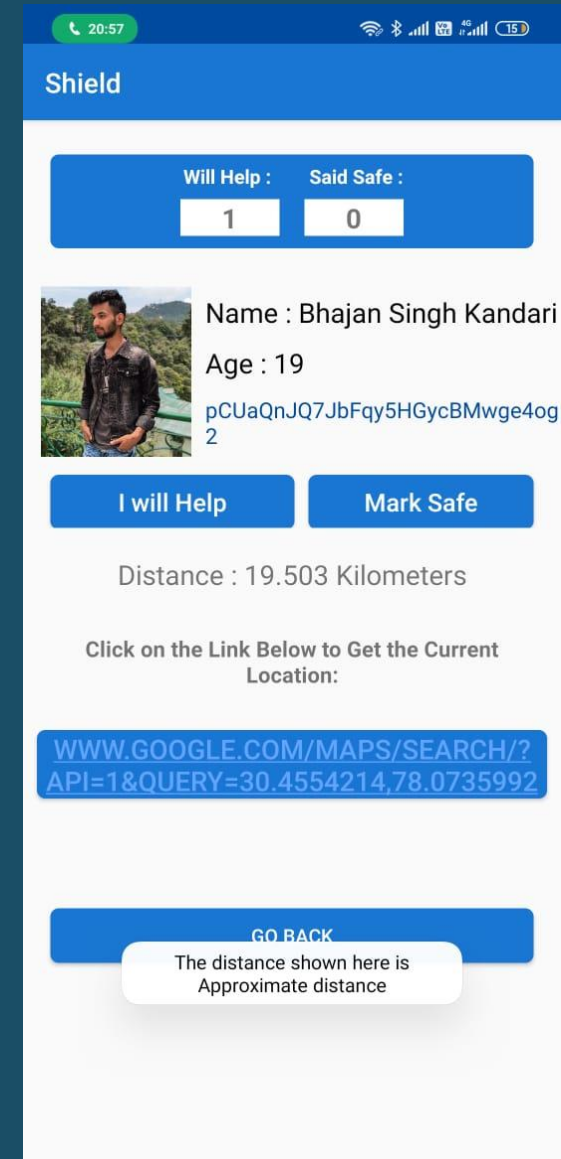
PEOPLE HELPING IN SOS MODE

❑ These are details shared in SOS mode. Name, age, photo along with location.

❑ This is the screenshot of helper Who has agreed to help the victim.

❑ These details are all stored in the firebase Database:

    ❑ The Person Helping .

    ❑ The Person who marked the Victim safe.

❑ The same details are also shared with The authorities (Police and Govt. Officials).

POLICE INTERFACE

❑ This Circled area in the screenshots leads the Govt. Officials, Cops to their Seperate login Screen.

❑ The login credentials of this page cannot be created by user side.

❑ The credentials are provided by The server side.

❑ This is done to ensure that no fake people can access the information.

Future Implementations

❑ We have a further goal of providing a hardware based small gadget for children which could be easy to hide and it provide location and audio of the children**.**

❑ We wish to add **star clients** according to their profession so that in case of an emergency they can attend the victim. Professionals includes doctors, psychiatrists, women & child empowering NGOs, etc. which will help the victim recover.

DEPENDENCIES

- **NETWORK**
  - ❑ Working of the app depends on victims mobile network.
  - ❑ We provided a network so that it sends signal to nearest client of our network so that the emergency alert of victim may be transmitted through his network.
- **BATTERY LIFE**
  - ❑ In starting 10 minutes of the incident we capture as much as we can to get their data but later we need their location so we need to save battery for it.
- **PRECAUTION TAKEN BY THE VICTIM**
  - ❑ How secretly the victim start the app and keep it secret is a really important part.

TECHNOLOGY STACK

- ➤ **Android studio** for creating android app.
- ➤ Java programming language.
- ➤ Firebase for Database Management.
- ➤ Google map APIs.