



JERUSALEM COLLEGE OF ENGINEERING,CHENNAI-100

DEPARTMENT OF INFORMATION TECHNOLOGY

WOMEN SAFETY ALERT SYSTEM

FIRST REVIEW

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SUPERVISED BY

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OBJECTIVE

- This is the aim to decrease gender-based violence or violence against women, including women's fear of crime.
- We build a new feature which brings more safety for women's emergency alert like SOS.

ABSTRACT

- Designing an effective system for Women's Safety is to know about women harassment at workplace, public transport etc.. has been raising concern all over the world.
- Creating a user profile in this system which collects the information about the user.
- The user can choose contact number of their belong family and friends when once the user is in emergency situation the alert will send as a call for the selected contact number.
- GPS location will be share to the selected contact number and they can able to track the user when the alert is sent to them.

LITERATURE SURVEY

- 1) R.Dandona , A.Gupta , S.George, S.Kishan and G.A.Kumar, “Domestic violence in india women: lessons from nearly 20years of surveillance”,BMC women’s health, vol.22, no.1, pp.1-14, 2022.
LINK-<https://ieeexplore.ieee.org/document/10176701>
TOPIC- Development of A Women Safety Smartphone Application.
- 2) M.A.Syafiq Bin Peer Mohamed and D. P. Dahnil, "Development of Gesture-Based Women Safety Application," 2021 IEEE International Conference on Computing (ICOCO), Kuala Lumpur, Malaysia, 2021, pp. 287-290, doi: 10.1109/ICOCO53166.2021.9673500.keywords: LINK-<https://ieeexplore.ieee.org/document/9673500>
TOPIC- Development of Gesture-based Women Safety Application.

LITERATURE SURVEY

- 3) R. C. Tanguturi, D. G. V, S. H. Kauser, N. Vyshnavi, K. Hephzibah and T. Aswani, "Design and Implementation of an Android App for Real-Time Location Monitoring and Emergency Assistance," 2023 7th International Conference on Electronics, Communication and Aerospace Technology (ICECA), Coimbatore, India, 2023, pp. 1561-1567, doi: 10.1109/ICECA58529.2023.10394685.

LINK- <https://ieeexplore.ieee.org/document/10394685>

TOPIC- Development of A Women Safety Smartphone Application.

- 4) P.C, B. B, P. C. M, P. R and S. M, "Raspberry Pi based Women Safety System," 2023 8th International Conference on Communication and Electronics Systems (ICCES), Coimbatore, India, 2023, pp. 74-76, doi:

LINK- <https://ieeexplore.ieee.org/document/10192819>

TOPIC- Raspberry Pi based Women Safety System.

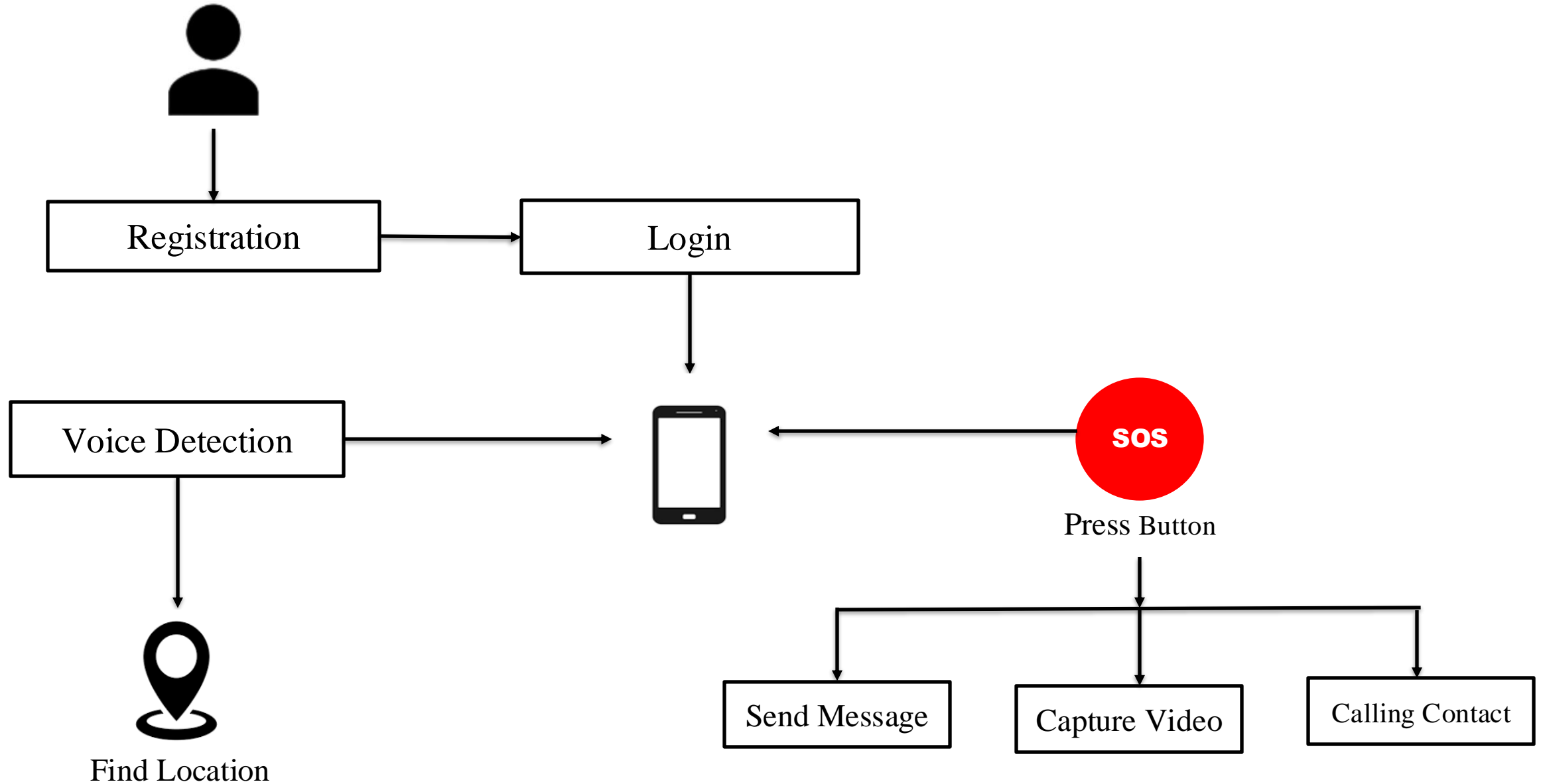
EXISTING SYSTEM

- The Existing system represents the women's safety system which is used for a emergency alert, whereas this system is specially designed for women in distress.
- Normally the existing applications have a features like emergency alert button and shaking the mobile.
- The alert system turn on the camera once the alert button is on and send a emergency alert to the selected contacts.
- GPS location will share to the selected contacts when the alert is on and they can able to track the user.

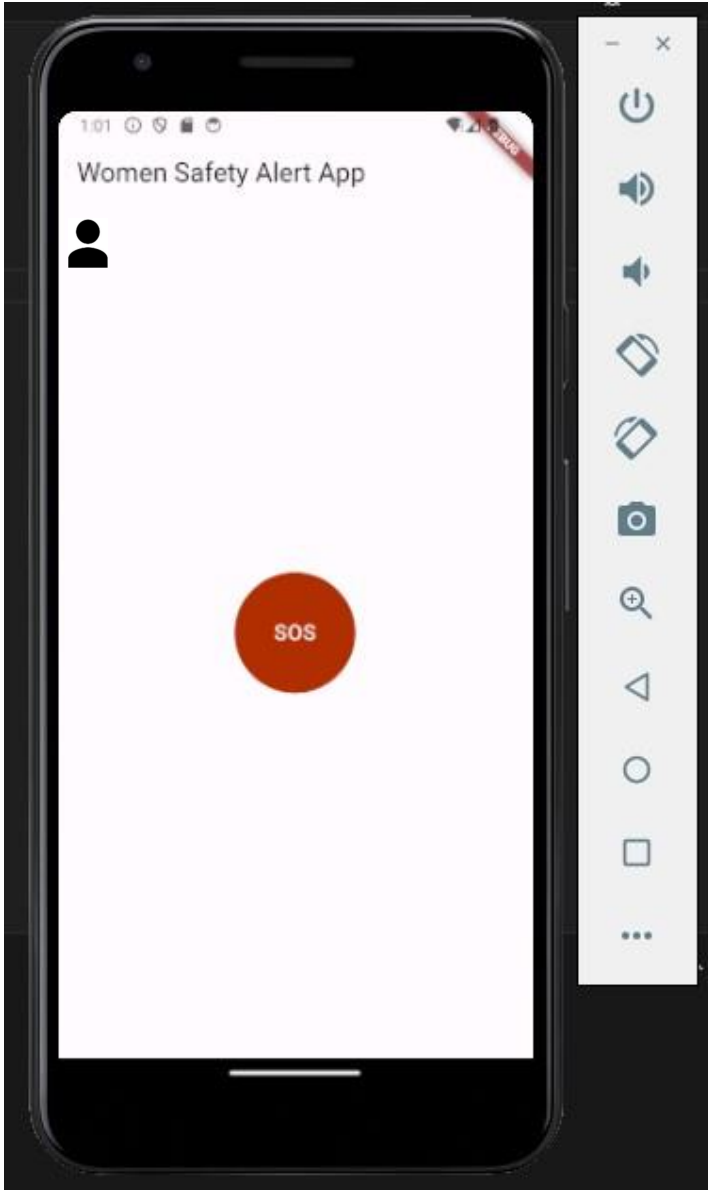
PROPOSED SYSTEM

- In this system we adding the new feature of ‘Voice Detection’ by using Microphone usage package in the application.
- By the voice detection feature the user can able to send the emergency alert by their voice, if the user didn’t have their mobile in their hand or if the mobile was in the other person’s hand in the crime situation user can activate the alert by their voice.
- The user set the code word like help in the system by their voice, the system will detect the user’s voice and send a emergency alert to the selected contacts in their emergency situation
- The alert will send as a call , message and as a GPS location of the user.

ARCHITECTURE DIAGRAM

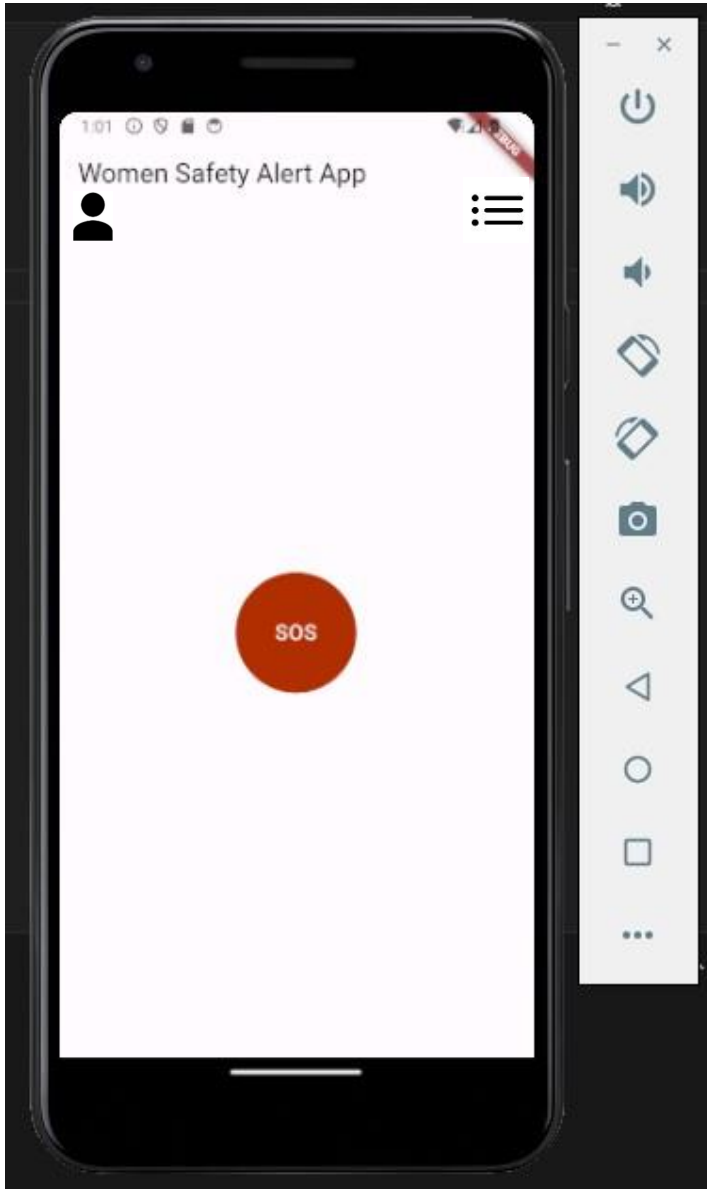


MODULE-1 BUTTON CREATION



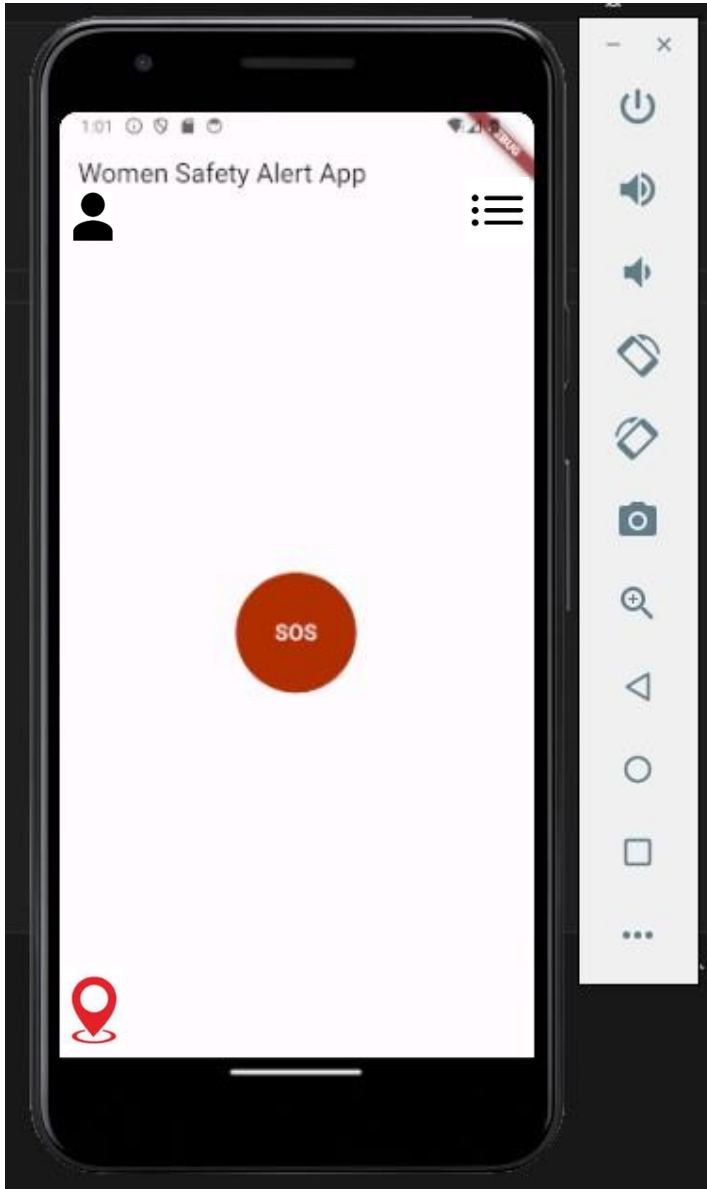
- In this module we create a alert button.
- By using python code in visual studio we built this button.
- We use Flutter package for the action of alert button (Pop-up).
- SDK is used to create android pixel which displays the alert button icon.

MODULE-2 CONTACT-INFO



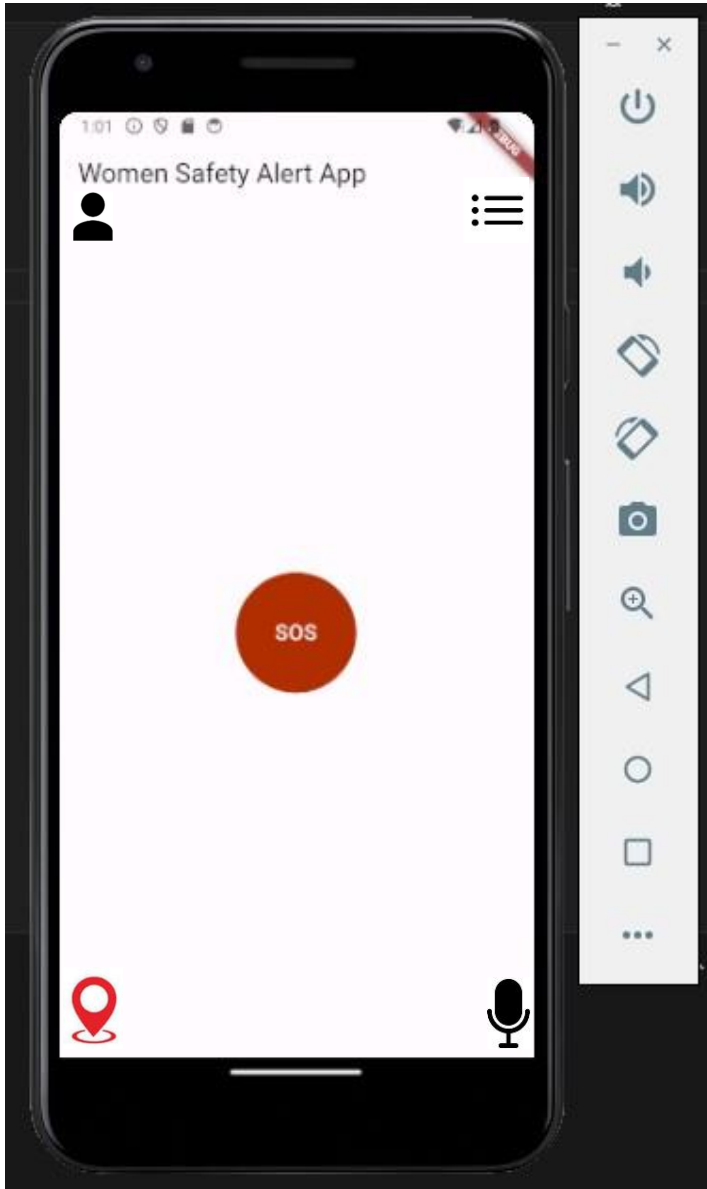
- Here the next module is adding contact details by GSM.
- This feature is used to select a specific number where the user can send emergency alert.
- When the user activate the alert button automatically the alert will send as a message or call for the selected contacts.
- Also share the user's live location to the selected contacts when the alert is once activated.

MODULE-3 GPS TRACKING



- Global Positioning System (GPS) is the major part of this application to track the user.
- When the system is activated by the user in the emergency situation the location of the user will be automatically send to the selected contacts and nearby police stations.
- GPS shares the live location of the crime situation where their belonging can find the user's place quickly.

MODULE-4 VOICE DETECTION



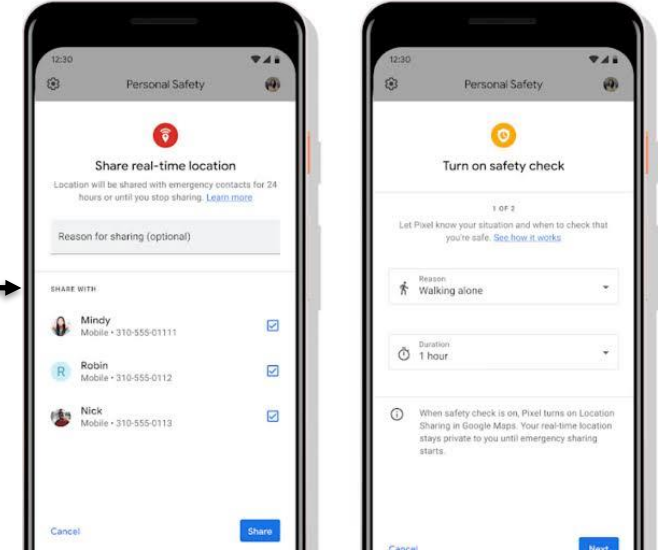
- The final module is a new feature of Voice Detection.
- Using Microphone package we create the voice detection access , which is connected to the mobile phone's microphone.
- The user gives their voice as a input using some a keyword and the system will detect their voice in the emergency situation.
- When the user's voice is detected by the system the SOS emergency button will be access automatically and send emergency messages and calls to the selected contacts.

Login page

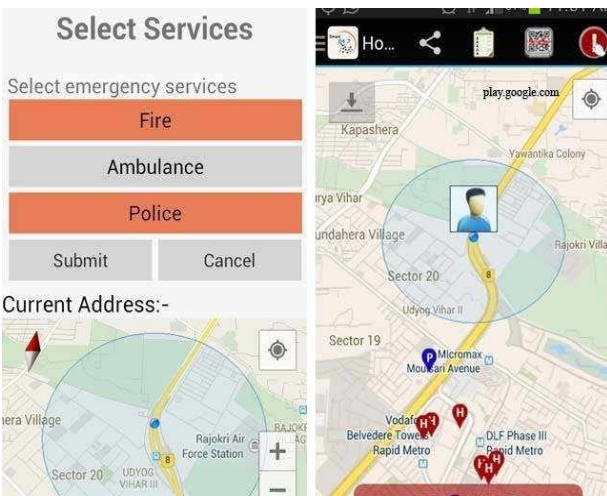


OUTPUT

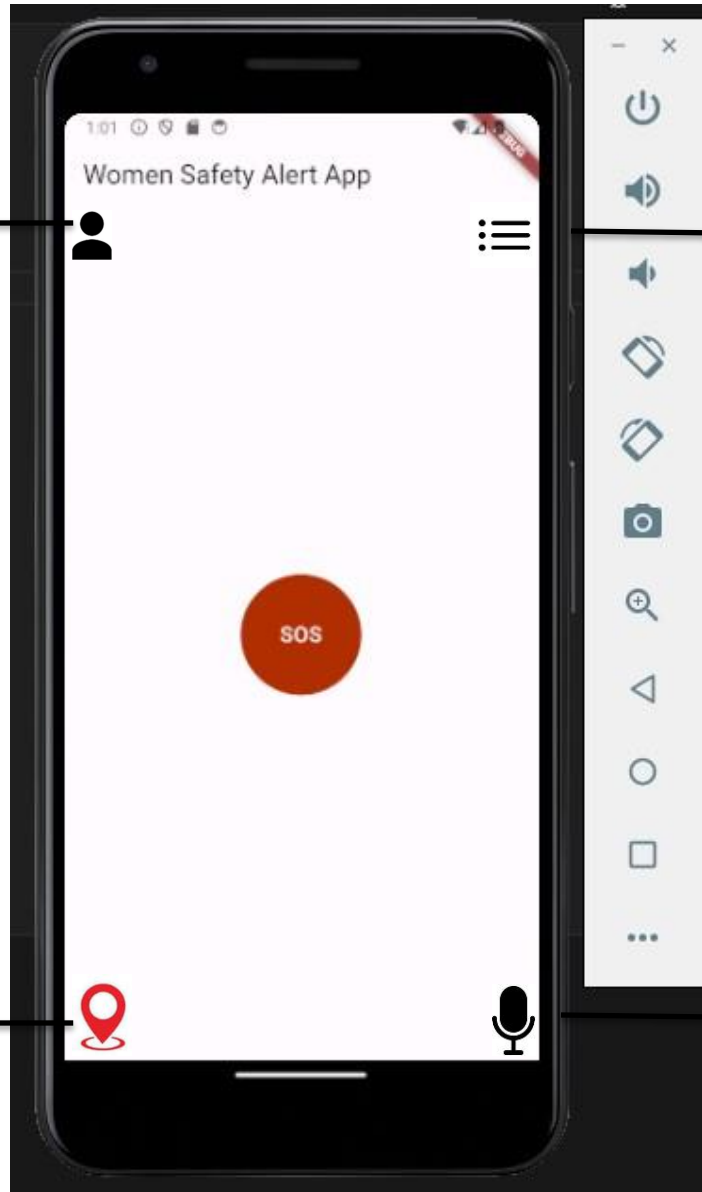
Contact-info



GPS tracking



Voice Detection



THANK YOU !