

THE SURVEY ON AN ANDROID BASED APPLICATION FOR WOMEN'S SAFETY

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ABSTRACT

Women's Safety Security System-Information All chat applications in today's world, people The use of smart phones has increased rapidly So the smart phone can be used efficiently personal security or other various protections Purpose. The terrible incident that annoyed the entire nation have wake nus to go for the safety issues and so a host of new apps have been developed to provide security systems to women via their phones. This Android Application for the Safety of Women and this app can be activated this app by a single click, whenever need arises. One click on this app detects the location of the place through GPS and sends a message containing the URL of this location to the registered contacts and also calls the first registered contact to help in emergency situations. Women have ensured the stability, progress and long-term development of the nations throughout the history. If women are subjected to violence and harassment, they cannot be genuinely included in society[1]. With increasing terrible incidents involving women and children, an advanced system is needed to serve the purpose of getting help as soon as possible. At present time, the use of smartphones has increased rapidly, making it possible to use a smartphone efficiently for security or other protective purposes. All the recent terrible incidents have made us think about to go for the safety issues.

Keyword : - Women security, android application, voice command, location tracking, safe zone.

1. INTRODUCTION

In today's fast moving world, Women Security is an issue of growing concern[2]. Safety of women is an important issue in India as it is not safe for women to travel at 12 midnight or contemplate in an obscure place. As women are not as physically strong as men, they need a helping hand. As this time cell phone can be the closest companion of client and client can remain in contact with their cherished one whenever. Anyone needs to make a call or communicate something specific in crisis at whenever from anywhere. We are introducing an app that ensures the safety of women. This helps to identify and SMS on resources to help the one out of dangerous situations. This reduces the risk and helps us get help when we need it and helps us identify the location of the person in danger. The Android SDK gives the instruments and APIs used to create applications on the Android

stage utilizing the java programming language. Ladies in crisis use voice-based contact list, they can work the application through voice and make the call when required. It allows sending short instant messages between cell phone gadgets. Voice acknowledgement is the fundamental procedure of this application. Project Idea We decide this project because we are probably living in one of the worst times our modern society has ever seen in terms of women's safety[4]. We aim to make women as strong as ever and strong enough to fight the parasites in our society, strong enough to fight the odds, strong enough to protect themselves from any sexual abuse. We aim to empower those without whom we would cease to exist. Our idea is to create a system that makes every place and every hour safe again for women. There is an urgent need to understand and solve this problem of women safety so that they can also grow equally like men in their own country[2]. Eve teasing, harassment, molestation, rape, domestic violence, abduction is becoming a part of everyday life. Many women safety applications have been made to handle this emergency situation[1]. This is the main reason for developing this project.

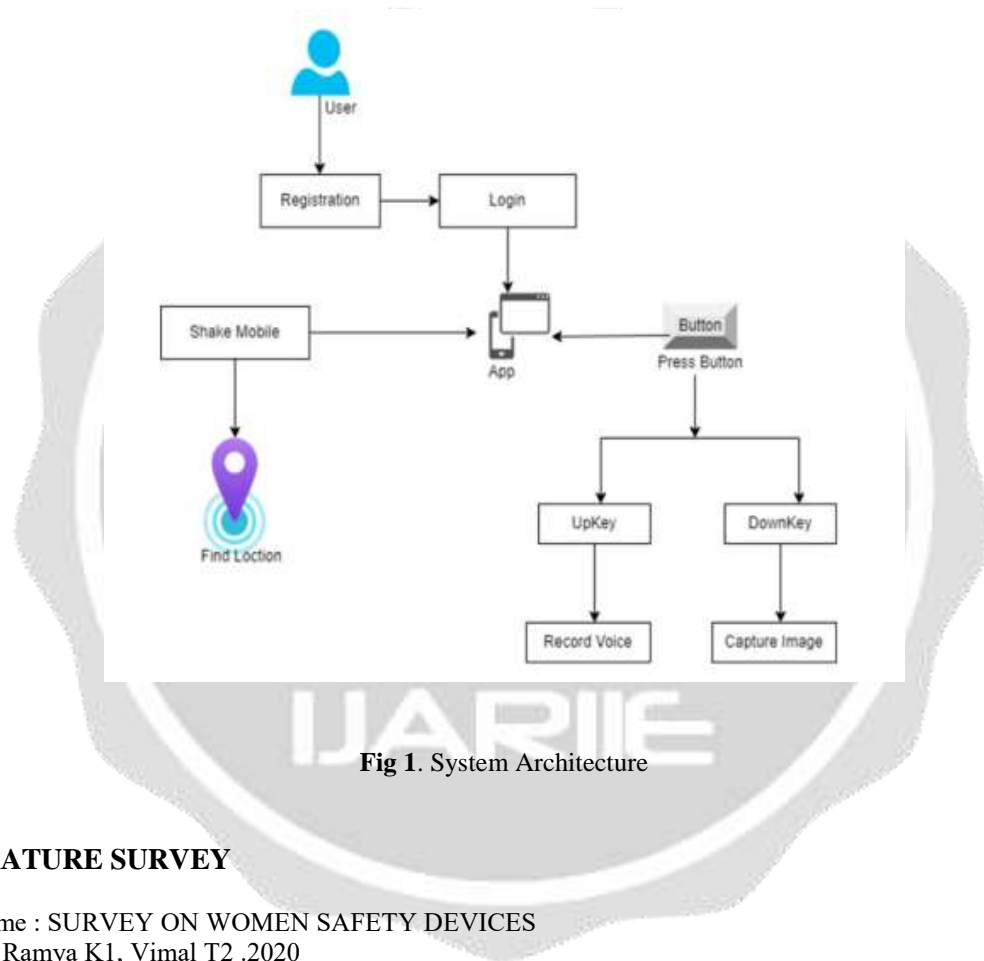


Fig 1. System Architecture

2. LITERATURE SURVEY

- Paper Name : SURVEY ON WOMEN SAFETY DEVICES
- Authors : Ramya K1, Vimal T2 .2020
- Description : Today in the current global scenario, women feel less secure to go outside. They are facing so many consequences in this independent world. Here, we are focusing on as cenario where the women walking alone in the road faces harassment either from the front or backside during day or night time. To overcome these issues, we have developed a smart portable device which can track the current location of the victim. When they feel in secure, their heartbeat increases which can be measured by the pulse sensor and their stress level is monitored[3].
- Paper Name : Design of a Smart Safety Device for Women using IoT [3]
- Authors : Wasim Akram, Mohit Jain,2019
- Description : Not safe anywhere and are most vulnerable when traveling alone into lonely roads and deserted places. Existing hand-held safety devices for women require human intervention to activate the device such as pressing a button or moving the device after sensing danger. We propose a solution which will try to over come the disadvantages of the existing systems and also aim at providing false proof safety to women.

- Paper Name : Analysis of Women Safety in Indian Cities Using Machine Learning on Tweets [3]
- Authors : Deepak Kumar1, Shivani Aggarwal2 year-2019 15
- Description : Women and girls have been experiencing a lot of violence and harassment in public places in various cities starting from stalking and leading to sexual harassment or sexual assault. This paper basically focuses on the role of social media in promoting women's safety in Indian cities with special reference to the role of social media websites and applications including Twitter platforms Facebook and Instagram.

- Paper Name : Credit Card Fraud Detection: A Hybrid Approach Using Fuzzy Clustering Neural Network
- Authors : Tanmay Kumar Behera
- Description : Vishesh Sharma, Yati Tomar, D. Vydeki .

- Paper Name : SMART SHOE FOR WOMEN SAFETY
- Authors : Vishesh Sharma, Yati Tomar, D. Vydeki
- Description : The world needs to be concerned about the women around and treat them the way they deserve to be treated. Despite so many laws for women, thieves, assailants or molesters do not stop oppressing women.

- Paper Name : SURVEY ON WOMEN SAFETY USING IOT [3]
- Authors : B. Sindhu Bala1, M.Swetha2,M.Tamilarasi3 and D.Vinodha4
- Description : Nowadays women are facing many security problems in the society. In such cases, they feel handicap and need help to protect them. Abduction of women, molestation and sexual harassment are still happening in our country. When the women face in to unsecured situations, to ensure the safety, automatic detection system needs to establish.

3. PROPOSED SYSTEM

Our system is designed such a way that it will be unique from other existing app by integrating all the features offered by those. To develop a system for android users for keeping track through several applications[2]. The user needs to initialize the application by registering. User can login with the registered email and password. User has to put three contact numbers manually. They will be registered with the Firebase Database. Every time the user uses this application, she needs to start the app by turning on the On/Off button. Then the app will start working until the user turns it off. Whenever the user presses them SOS key or screams with the voice command the app will start its emergency service and will send alert message containing the user's name with the location to the registered contacts. The location will be sent in every 5 minutes to the contacts so that if the person changes his/her place, they can know about it and reaches out for help. Also there is a system of live streaming. When the user travels from one place to another, the registered contacts can watch his/her positions using Geo fire. There is a system of audio recording. After getting the SOS command the system will start recording the surrounding for the first 5 minutes so that the user can use it later as a proof. By safe zone option user can see nearer police stations through map. Besides the emergency contacts, there is another option called emergency number which is country's helpline number. Whenever the application gets SOS command, it will make a call to that number which is toll free. The user needs to put that helpline number manually as we are planning this application for worldwide use. Sometimes user may run out of money and cannot use data to use all the features in a distress situation. Keeping that in mind we have planned for Offline mode where the application can send alert message but without location, can make call to the helpline number and do audio recording. This feature has been added for minimizing danger anyhow so that in any situation the user can get help. Though the application cannot send location with this feature but user's family may know the route of her and can reach out for help or can at least know that she is in danger.

4. PROBLEM STATEMENT

Safety of women is an important issue in India as it is not safe for women to travel at 12 midnight or contemplate in an obscure place. As women are not as physically strong as men, they need a helping hand. As this time cell phone can be the closest companion of client and client can remain in contact with their cherished one whenever. Anyone needs to make a call or communicate something specific in crisis at whenever from anywhere. We are introducing an app that ensures the safety of women. This helps to identify and SMS on resources to help the one out of dangerous situations. This reduces the risk and helps us get help when we need it and helps us identify the location of the person in danger.

5. SCOPE OF THE PROJECT

To provide the security to the women from the strangers at any situations. In this system the user needs to feed three contact numbers, in case of emergency if the phone is moved up and down three times, the system terminates SMS and calls to one number fed into the system along with the location.

6. CONCLUSION AND FUTURE SCOPE

6.1 Conclusion

This project proposes a new women's safety model that aims to provide a very safe environment. Many unfortunate incidents took place in the case of women. Problems can come from anywhere. This paper analyzes the key needs of the intelligent security system with technology demand and system building challenges. Since the prediction of such incident is not possible hence to minimize it our proposed mobile application will be very helpful. It will not only help the women but also the children as it can work with voice command which is easy for a child to operate. And men can also use it when they face any big trouble and need help. Not only in sexual related problem, it can be used when someone faces accident or hijacking or public attack. Whenever anyone is in any kind of danger, our system will help to decrease the risk and make the world a better and safer place.

6.2 Future scope

To provide the security to the women from the strangers at any situations. In this system the user needs to feed three contact numbers, in case of emergency if the phone is moved up and down three times, the system terminates SMS and calls to one of the numbers fed in the system along with the location.

7. ACKNOWLEDGEMENT

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8. REFERENCES

- [1]. <https://ieeexplore.ieee.org/document/9068024>
- [2]. <https://ijrpr.com/uploads/V3ISSUE11/IJRPR8180.pdf>
- [3]. <https://www.ijraset.com/best-journal/a-survey-on-smart-security-applications-for-safety>
- [4]. <https://ijarcce.com/wp-content/uploads/2022/05/IJARCCE.2022.11447.pdf>