A Web Based Women's Safety System by Voice Recognition

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Abstract— In today's world it is very unsafe to travel alone, especially for women. Since lots of unexpected and shameful incidents are happening around the globe. Problems may come from anywhere and anytime, as women are also growing equally like men so for that purpose they have to travel alone at night where ever they go, they have to travel alone in public transport and solve this problem of women so they also should not feel any fear regarding their safety. This report represents an android application which will serve the purpose to rescue the women from unsafe conditions. As we all know that nowadays every individual carry their own smartphones and the uses of web apps have been increased rapidly so it is better to have such a web application which will provide a safe environment in public transport.

Keywords: Women's Safety System, Location, Emergency, Alert System, SMS, Email

I. Introduction

Because of the growing variety of harassment against women, women's health may be an important concern. To help in resolution this downside, we have a tendency to propose a GPS based ladies' well-being system with twin safety features. [1] This device contains a system that ensures double warnings within the event that a girl is vulnerable or feels she is during a dangerous state of affairs. This framework may be activated by a girl if she Suspects she is going to be during a tough state of affairs. It's helpful that if something terrible happens to a girl, she would be ready to use the crisis button. During a grab press dread system, if a girl is stricken within the head from behind, she will realize the chance to squeeze the emergency signal, and nobody might recognize she is in peril. This can be taken care of by our system. This device ought to be switched on before time by a girl if she is walking down a lonely street, through a dingy back door, or during a remote space. Only the woman

A. World Health

Organization has been checked by the gadgets is allowable to start the framework via a finger impression review. [2] Once initial turned on, the system needs the woman to unendingly check her finger on the framework each one second; otherwise, the device sends her location to the authorized hands variety via SMS message as a security live, [3]and it conjointly sounds a bell on an everyday basis so near people will hear it. During this case, notwithstanding whether or not somebody hits the woman or she falls down and becomes unaware, she doesn't have to be compelled to do one thing as a result of the system doesn't receive her finger sign up one second and therefore starts the double protection operate [6]

II. Review of Literature

1) Kalpana seelam, K.Prasanti "A Novel Approach to Provide Protection for Women by using Smart Security Device" Proceedings of the Second International Conference on Inventive Systems and Control (ICISC 2018) IEEE Xplore Compliant - Part Number:CFP18J06-ART, ISBN:978-1-53860807-4; DVD Part Number:CFP18J06DVD, ISBN:978-153860806-7.
2) Iqra Ilyas. Muhammad Tayyab, Aliza Basharat" Solution to Web Services Security and Threats" 2018 International Conference on Computing, Mathematics and Engineering Technologies – iCoMET 2018
3) Shivani Ahir, Smit Kapadia "The Personal Stun- a Smart Device for Women's Safety." Authorized licensed use limited 1 to: Cornell University Library. Downloaded on September 01, 2020 at 09:49:07 UTC from IEEE Xplore.
4) MEETHA V. SHENOY 1 , (Member, IEEE), SMRITI SRIDHAR1 "A Holistic Framework for Crime Prevention, Response, and Analysis With Emphasis on Women Safety Using Technology and Societal Participation" This work was supported by the Indian Council of Social Science Research (Ministry of Human Resource Development) under Grant IMPRESS/P497 /140/18-19/ICSSR.

III. Problem Statement

Our idea is to design a system which shall make every place every hour safer for women again. A system which shall reestablish how very gregarious mankind is. [3] This system shall geotag and send SOS alert to the police station, help center, close contacts and also alert people in and around the voice. [4]

IV. Proposed System

The proposed system provides the user alerts to your closed ones, Help center by standers with your location in a situation of distress or emergency. And will inform and update your closed ones if you are stuck in an unsafe place. [1]

V. Existing System

There are certain Women security applications which are quite similar to our application. Drawback of the existing system requires good network connectivity. [2] Good Android platform. Difficult to inform immediately the location of the user in trouble. The free mobile application 'Help conifer State on mobile' to create certain the protection of women was launched to assist people that would really like emergency. [7] These applications would really like one click to try to this task. However once a lady is in trouble, there's a time that the woman is not capable of taking the phone and pressing button.

VI. SYSTEM ARCHITECTURE

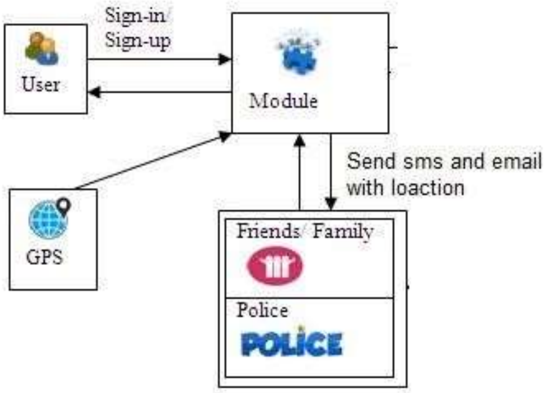

Fig. 1: System Architecture

The user of our system Women Empowerment is specially women. Different existing applications are specific only for emergency call when they may be at risk, some application's contains complete resources for victims of domestic violence, as well as a way to get help when you need it. But our application will provide violence prevention and urgent call, SMS Email for women seeking help from street violence in a single system. System architecture of our application Women Empowerment is shown in Fig.1 The system architecture depicts the different interactions between the users and the web application. To use the web application Women Safety, the user has to register her. All her information is saved in the database. Helpline can access the data from the database. The built-in GPS system will locate exact position of the victim. The Emergency SMS and Email System helps the victim in physical harassment or violence and also sends and email messages to the helpline, and family members who contain location and time.

For this women just have to loudly saying help or bachao system will get activate and SMS email send to emergency contact and helpline with live location.

VII. SYSTEM IMPLEMENTATION

A. Data Flow Diagram:

1) DFD Level 0

Fig. 2: DFD Diagram

In this figure, the user sends data to the proposed system and voice will be recognized then the data is received by messaging architecture.

2) DFD Level 1

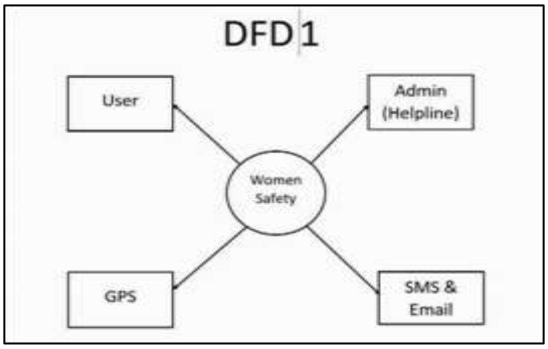

Fig. 3: DFD Diagram

In this figure, the user sends data to the proposed system and voice will be recognized them the data is received by messaging architecture [1]

3) DFD Level 2

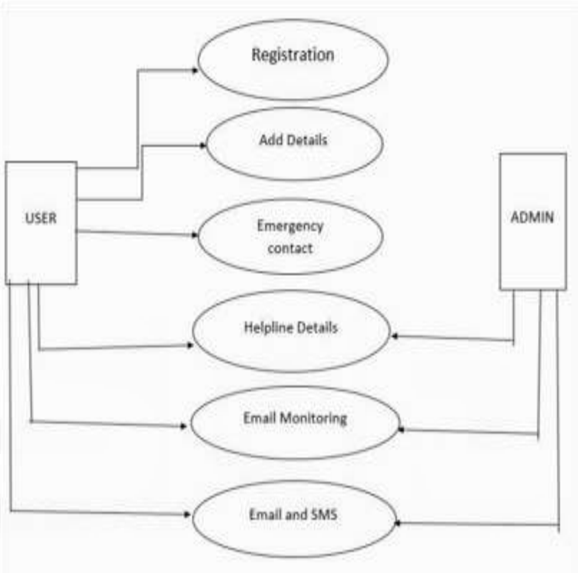

Fig. 4: DFD Diagram

In this figure, The data shows that user is first have to register on the login page adding there contact number, name, email then add emergency contacts of our closed ones that is parents, Friends. Monitoring email and SMS. Admin view the detail of helpline detail email monitoring and email SMS.[1]

VIII. ALGORITHM

Step 1: START
Step 2: User Registration Then fill all required fields a) Personal Details
Contact Details
Voice and Keyword setup
Step 3: Log In
If (New User)
Then go to Step 2
Enter user name and password
If (Field is empty)
Then throw warning
If (Field is not valid)
Then throw warning
If (matches)
Open the home page and start the session Switch (option)
If (method1==" working") Then proceed to execution

Else if (method2==" working")
Then proceed to execution
Else
Start working by method3
Step 4: After that, it will generate the location and sends it to registered contacts along with pre-stored messages.
Step 5: end

IX. ADVANTAGES

- Women feel safe any were.
- One click message to helper.
- User-friendly interface time saving.
- Easy to integrate and access interactive interface.
- Email alerts and notification will be send in case of an emergency.

X. APPLICATION

- Security services
- Security organization
- ENGOS

XI. CONCLUSION:

Our effort behind this project is to design a system which is so user-friendly in itself that provide advantage of personal security system the emergency response system which is helpful for women in the incidents of crime. It is low cost. System which can store the data of the member in the particular locality and provides women security. Being safe and secure is the demand of the day. As the Indian economy and the society embrace new frontiers, the Indian woman of today is more and more a part of the public places, claiming her rightful place in the society and the commercial world. Women need to feel safe in public places, and children form another vulnerable category as well, when it comes to road safety

ACKNOWLEDGMENTS

A very firstly we gladly thanks to my project guide Prof. P. A. Patil, for his valuable guidance for implementation of proposed system. We will forever remain a thankful for their excellent as well as polite guidance for preparation of this report. Also we would sincerely like to thank to HOD A.S. Chandgude and other staff for their helpful coordination and support in project work.

REFERENCES

[1] Vinay Mishra, Nilesh Shivankar, Sanam Gadpayle "WOMEN'S SAFETY SYSTEM BY VOICE RECOGNITION" Authorized licensed use limited to: McMaster University. Downloaded on May 23, 2020 at 00:23:29 UTC from IEEE Explore. R 978-1-728148625/20/$31.00 ©2020 IEEE

[2] Kalpana seelam, K.Prasanti "A Novel Approach to Provide Protection for Women by using Smart Security Device" Proceedings of the Second International Conference on Inventive Systems and Control (ICISC 2018) IEEE Xplore Compliant - Part Number: CFP18J06-ART, ISBN: 978-1-5386-0807-4; DVD Part Number:CFP18J06DVD, ISBN:978-1-5386-0806-7.

[3] Iqra Ilyas. Muhammad Tayyab, Aliza Basharat" Solution to Web Services Security and Threats" 2018 International Conference on Computing, Mathematics and Engineering Technologies – iCoMET 2018 [4] Shivani Ahir, Smit Kapadia "The Personal Stun- a Smart Device for Women's Safety." Authorized licensed use limited to: Cornell University Library. Downloaded on September 01, 2020 at 09:49:07 UTC from IEEE Xplore.

[4] Prof. Sunil K Punjabi, Prof. Suvarna Chaure "Smart Intelligent System for Women and Child Security" 9781-5386-7266-2/18/$31.00 ©2018 IEEE this work is licensed under a Creative Commons Attribution 4.0 License. For more information, see https://creativecommons.org/licenses/by/4.0/VOLUME 9, 2021

[5] MEETHA V. SHENOY 1 , (Member, IEEE), SMRITI SRIDHAR1 "A Holistic Framework for Crime Prevention, Response, and Analysis With Emphasis on Women Safety Using Technology and Societal Participation" This work was supported by the Indian Council of Social Science Research (Ministry of Human Resource Development) under Grant IMPRESS/P497 /140/18-19/ICSSR.

[6] National Crime Records Bureau (Ministry of Home Affairs), "Crime in India 2012 Statistics," Government of India Press, June 2013.

[7] Dhruv Chand, M.; Sankaranarayanan, S.; Sharma, C., "Project Jagriti: Crowd sourced child abuse reporting," Global Humanitarian Technology Conference (GHTC), 2014 IEEE, vol., no., pp.609, 613, 10- 13 Oct. 2014 DOI: 10.1109/GHTC.2014.697034