Shake to Safety: You Deserve it

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Abstract – *In today's world it is very unsafe to travel especially for women. Since lots of unexpected and shameful occurrence are happening around the world. Problems can come from anywhere and anytime, as women are also equally standing like men so for that purpose they have to travel alone in public transport as well, and for that reason we need to solve this problem of women so they also should not feel any fear regarding their safety. This report constitute an android application which will serve the purpose to rescue the women from unsafe conditions. As we all know that now-a-days every individual carry their own smartphones and the uses of the android application have increased so it is better to have such an application which gives a safe environment in public transport. This activated by shaking if you are registered user .This application identifies location of the user through GPS and sends message including this location to registered contact numbers where user can get help from their contacts. The unique feature of this application is to send location every 5 minutes.*

Key Words: Molestation, Rescue, Occurrence, Constitute, Retrieve

1. INTRODUCTION

Shake to Safety is an women safety application. As it is worth while to take advantage of technology to support and improve the security standards. This application keeps track of all the information of registered user. Including its location. This application will notify the registered contacts when the user is in emergency or trouble. This application sends the phone's location through GPS by using SMS. The unique feature of this application is that it can be activated by shaking the smart phone. When you shake the phone the location of phone is send to the registered contacts by which victim can get help.

2. PROBLEM DEFINITION

Decade ago there was no system to provide security to women. This application plays vital role in security wherein in emergency the helping hand would be relief for them. In emergency situation people get panicked and in that situation they can't defend the attacker. So the proposed system may be helpful for women. Using Android we will track the victims location and store it in database. After that using maps we can track the person on maps.

3. EXISTING SYSTEM

Existing System do not have facility of providing the first aid tips where as proposed system will have the first aid tips. Also there any existing systems available such as:

"1) VithU App:

This is an emergency app initiated by a popular Indian crime television series "Gumrah" aired on Channel[V]. In this app when the power button of the Smartphone is pressed twice consecutively, it will begin sending out alert messages with a link to the location of the user every two minutes to the contacts fed into the app.

2)SHE(Society Harnessing Equipment):

It is garment designed by three engineers from Chennai. This garment has an electric circuit that can generate 3800kv of current which can help the victim to escape. In case of multiple attacks it can send upto 82 electric shocks. Since the fabric is bilayer, the user is not affected. It can also send emergency messages."[4]

4. PROPOSED SYSTEM

Shake to Safety application can be activated by shaking the smart phone. This application also consists of safety and first aid tips. The application will also show the nearby hospitals, police stations and medical stores.

4.1. MODULES

Server Side

- View user details
- Update/Delete user information

Client side

- View Profile
- Add contacts of family or friends
- View first aid tips
- View nearby police station etc

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5. OBJECTIVE

To develop an adaptive system for the end user that support system features. It should be highly secured authentication system. Functions will be easy to use. This app is created with the passion for supporting lives of women in emergency situation.
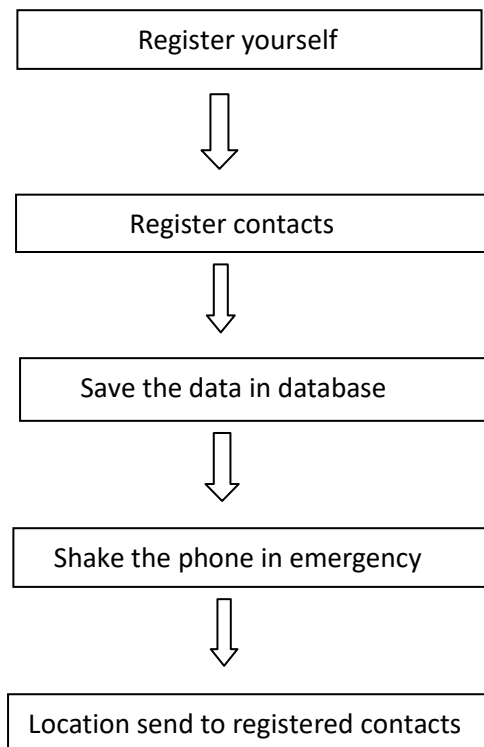
6. SYSTEM ARCHITECTURE

Fig-1: System Architecture

7. ADVANTAGES

- This is a free application.

- The application makes working women safe

- The application supports technologies like GPS etc

8. CONCLUSION

A low cost tracking system using GPS and GPRS of GSM network suitable for good range of application all over the globe. The combination of the GPS and GPRS provides continuous and real time tracking system. The cost is much less than the SMS based tracking system. It is expected that the full implementation of the proposed system would ultimately replace the traditional tracking system.

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