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Android Based Emergency Alert System

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ABSTRACT: Android Based Emergency Alert System is one of the application for security purpose. It is a modification of the SOS emergency alert button. If any emergency situation occurs or whenever anyone falls in trouble and a third person who is witnessing the situation can click a picture of the crime or accident taking place and immediately send this information or picture. This information or picture will be received with the location (latitude, longitude) of the incidental place by the nearest police station. This application will track the location using GPS system. GPS system will track the location of the registered user and with the help of location they can help the needy person. The only condition is that the GPS connection of the sender should be on for sending the message.

KEYWORDS: GPS, Android

I. INTRODUCTION

Security of woman and children nowadays is a concern. The emergency alert system is a media communication system that is designed to transmit emergency message. This paper describes about a safety triggering application. It is a modification of SOS Emergency Alert Button.

The user should keep the GPS enabled so that his/her location will be tracked. The user can use this app not only for security but also for his/her safety. If any user is out somewhere and is going to reach home late, then he/she can just press the button and his/her location will be sent to his/her family members so that they can be assured about him/her.

The main modification we have made is that the third person that is the person who is witnessing the crime or the incident taking place can click a picture of the incident and click the SOS button. On one click the picture along with the location (latitude, longitude) will be sent to the nearby police station. Or if an accident has taken place then we can send it to the hospitals nearby so that an emergency help can be provided.

Through this application any person can provide help to another person who surprisingly fell into emergency situation. The Global Position System (GPS) is the main key for this application. The existing model had only enabled to send the location when the phone is On but the proposed model will also trigger the location when the phone is switched off.

II. RELATED WORK

Existing Android SOS Application There are lot of Android applications are available today. There are SOS based applications too which are developed using android platform. Some of the SOS applications are listed below. This application provides instructions for dealing with a variety of emergencies, including choking, strokes, allergic reactions and many more.

(a) SOS Emergency support prepared by Red Cross : This application provides step-by-step instructions on dealing with a variety of emergencies, including choking, strokes, allergic reactions and many more. It is a free application; it provides no. of videos to coach a person through emergency protocols. If a person is not from the US, the application determines what country the person is in and dials the appropriate number [1].

(b) Olalache Emergency Alert Button (SOS) : Olalache Emergency SOS is an emergency SOS application. It allows entering in-case-of-emergency contact from phonebook. Send SMS to registered contacts that the user is in trouble & Click the widget button to trigger the application [1].

(c) With U app : The popular Indian crime television series "Gumrah" initiated towards developing an emergency app for women security. The working of this app is such that we have to press the power button. In this app when the twice consecutively and it will start sending messages with a link to the location of the user.

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Existing models:

This paper describes four models which describes overall implementation of the project.

1. Registration of the user.
2. Register the numbers.
3. Check if GPS service is available or not.
4. Sending the text message to the pre-registered numbers.

III. PROPOSED ALGORITHM

The SOS system provides security to the citizens. The proposed model is designed with an objective such that it has to be user friendly and triggering of the application should take less time. Some of the citizens who are unavailed to this SOS service help by other people who uses SOS in case of emergency.--

Architecture

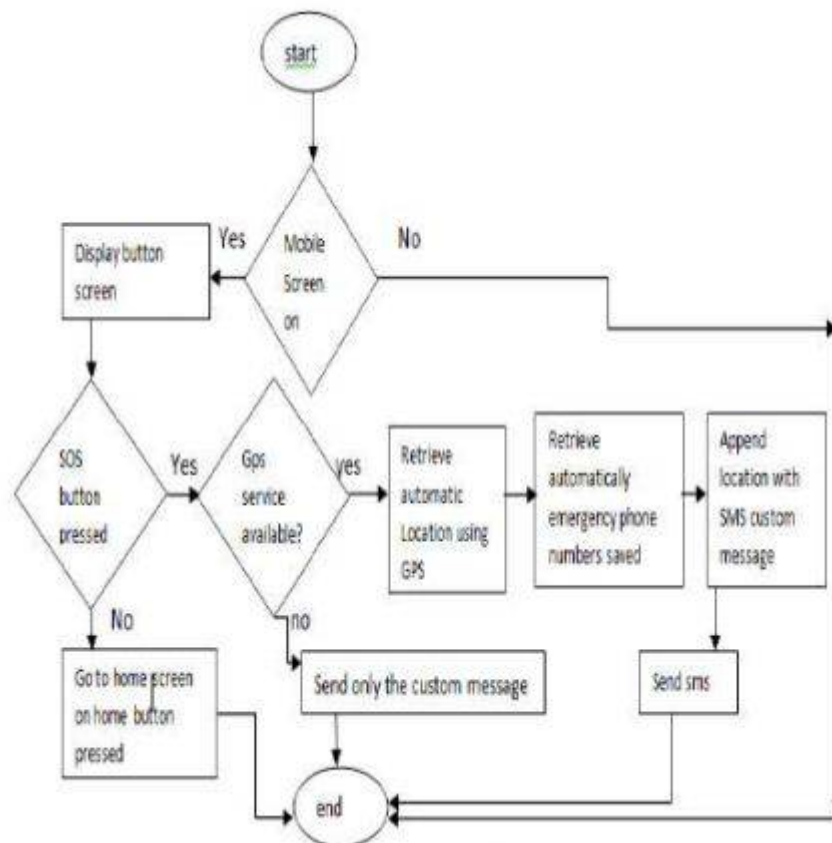


Fig 1 : Architecture of System

Application

To avail android based security.

Future Goals

1. To achieve higher level of security, especially for women.
2. To spread this application on a large scale.



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Advantages

1. Security of citizens is ensured.
2. User friendly access.
3. If GPS is enabled, the location will be triggered even when the cell is switched off.
4. Location also includes latitude, longitude and address of the person.

Disadvantages

If the GPS service is disabled, the location cannot be triggered.

IV. CONCLUSION

This model is designed with an objective such that it has to be user friendly and is very useful mainly for the girl's safety especially if they are travelling alone at night time.

The main modification made is that the third person who witnesses the crime can click pictures and send to the nearby police station or hospital so that required help can be provided. This system is designed to provide safety as well as security.

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