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Self Defence System for Women Safety with Location Tracking and SMS Alerting

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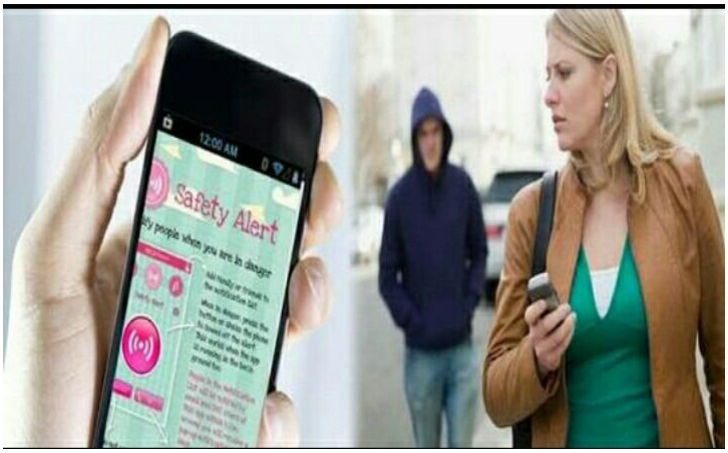
Abstract: ***In today's world, people using smart phones have increased rapidly and hence, a smart phone can be efficiently used for personal security or various protection purposes. The heinous incident that outraged the entire nation has awaken the country for the safety issues, and so, a host of new applications have been developed to provide security systems to women via their phones. This paper presents Abhaya, an Android Application for the Safety of Women and this application can be activated by a single click, whenever the need arises. A single click on this application identifies the location of place through GPS and sends a message comprising the location URL, to the registered contacts and also call on the first registered contact to help the victim in dangerous situations. The unique feature of this application is to send the message to the registered contacts continuously for every five minutes until the " stop " button in the application is clicked. Continuous location tracking information via SMS helps to find the location of the victim quickly and can be rescued safely.***
Keywords: apps, android, mobile, safety, Women.

I. INTRODUCTION

The main aim of our project is to develop an application that reduces the overall cost of tracking based on GPS system, which is satellite based service and it is available 24X7 everywhere in the whole world. GPS system can be used to get location which includes details like latitude, longitude and altitude values along with the time details ,etc. It is a free of cost service available to every individual. In order to track the movement of the person we have used Google maps for mapping the location sent by the mobile phone. The mobile phone fetches the GPS location which communicates with the server using General Packet Radio Service(GPRS).This system is a low cost service which is wireless data communication system. Mobile phone equipped with GPS receiver are easily available in the market, it is a latest technology. The mobile phone technology has enable us to communicate across the world .The GPRS is on of the best and cheapest mode of communication available today.



II. PROPOSED METHODOLOGY

The application is designed to help Women who surprisingly fall into an emergency situation regarding their safety from rapists, stalkers, hence in need of immediate help. This application can be very useful as it offers many advanced features as compared to the existing system available currently.

This is a safety security application having multiple features such as GPS tracking, text indicating current location of the victim along with the battery level of the phone, pins indicating danger zone areas on Google maps, self defence videos indicating how to remain safe in dangerous situations. The Global Positioning System (GPS) is the main key of this application. The location will be tracked with the help of GPS system, for using this application one must have GPS enabled in their mobile to provide current location to the friends and family members. The proposed model will trigger the location within the 2-3 shakes.

A. Features

1) Your loved ones and close friends can AUTOMATICALLY receive a text and an email.
2) Exact time of the alert triggered.
3) Your location (with map link).
4) The battery level of victim's phone.
5) If any user marks GPS location as a danger zone, than rest of users will get notification whenever they are around that danger zone, so this will make the next user alert.
6) If someone gets an auto or lift from any person than his or her vehicle number will go in SMS to the registered.

III. ARCHITECTURAL MODEL

IV. EXPERIMENTAL SYSTEM

The experiments were performed using Intel(R) Core(TM) I3 @2.53GHz CPU with 4GB RAM and 80 GB hard disk, android mobile with the support of wifi. In the development of the safety (woman security application) mobile application the requirements are:

A. Software Requirements

Operating System: Android
IDE : Android Studio
Web Server : Tomcat

B. Hardware Requirements

Front End : Android (GUI Component)
Back End : Android (File System)

V. ADVANTAGES

A. App will help the victim, so that help can be attained to them at earliest.
B. Police Department can work efficiently by using this app.
C. Cost of GPS devices are reduced.
D. Easy Installation and set up.
E. Free of Cost.
F. User Interface is easy.

VI. LIMITATIONS

A. We require inter -net for accessing this application.
B. We require android mobile phones.

VII. CONCLUSION

The safety of women being a big concern in India, it becomes necessary in the age of smart phones, mobile phones to be equipped with tools and features that women can rely on, for help in emergency situations.

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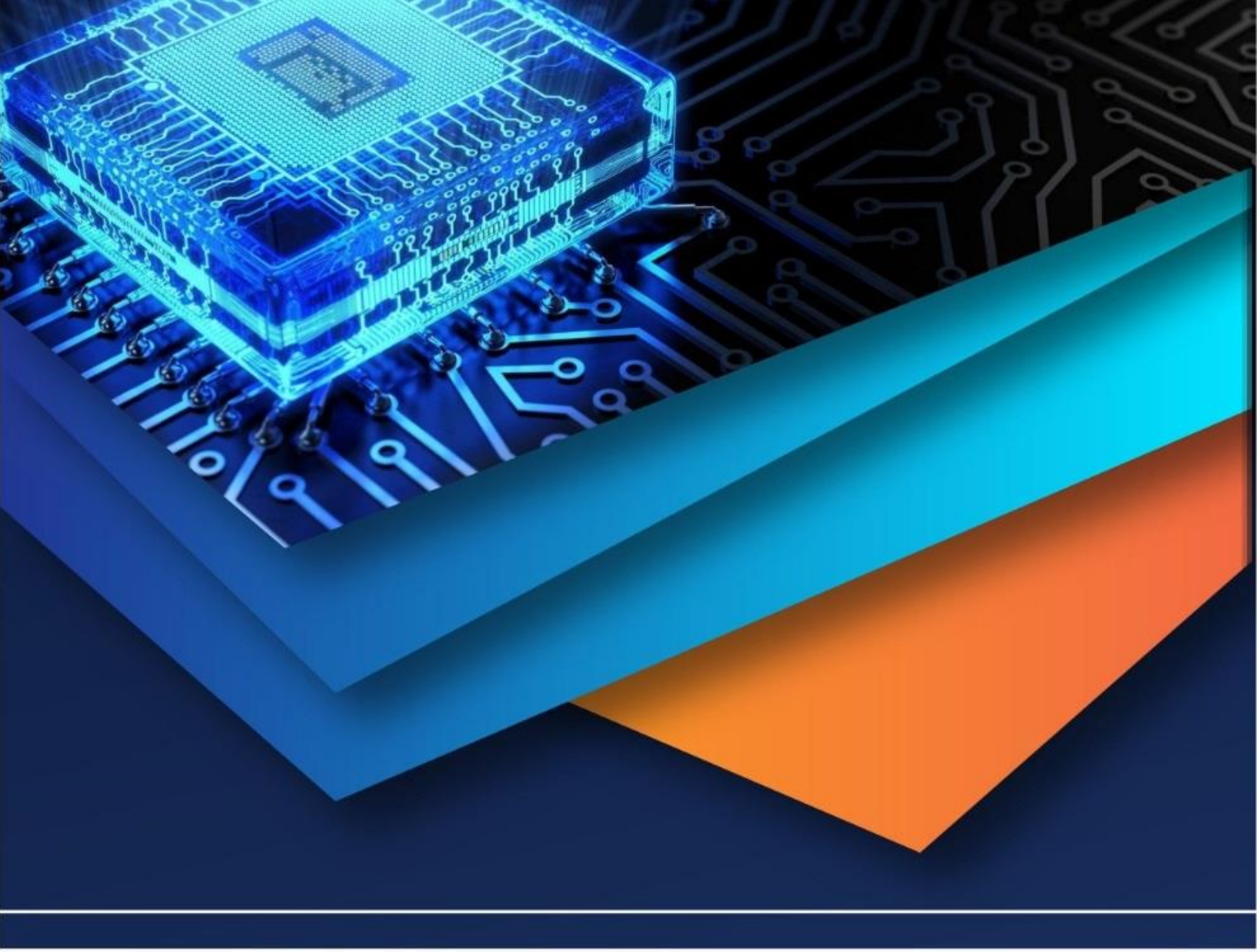

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