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WOMAN SAFETY APP

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Abstract - In today's world, people using smart phones have increased rapidly and hence, a smart phone can be used efficiently for personal security or various other protection purposes. Theheinous incident that outraged the entire nation has woken us to go for the safety issues andso a host of new apps have been developed to provide security systems to women via their phones. This project presents, an Android Application for the Safety of Women, this app can be activated by just shaking phone three times, whenever need arises. By just three timesshake identifies the location of place through GPS and sends a message comprising this location URL to the registered contacts to help the one in dangerous situations. The uniquefeature of this application is to send the message to the registered contacts after the phone is shook for three times. Instant location tracking information via SMS helps to find the location of the victim quickly and can be rescued safely. A wide range of tracking systems has been developed for tracking vehicles and displaying their position on a map, applications has been developed which tracks the mobility of a human being. Now a days tracking a person's mobility has become a crucial issue, specifically in case of women. If tracking a criminal could be implemented as a systemwhich is cost effective and can be used for tracking a human being using a GPS equipped mobile phone rather than using a handheld GPS receiver. 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 altitudevalues 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 locationwhich 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 enabled us to communicate across the world. The GPRS is one of the best and cheapest mode of communication available today.

***Key Words*:** Android, GPS, URL, Registered Contacts

1.INTRODUCTION

Safety for women is one of the most pressing issues of our time that should have beena fundamental, undeniable concept for any civilized society centuries ago. Denying fundamental rights to safety, personal choices, freedom to pursue, whatever lifestyle they wish to, sexual and physical empowerment are not new issues – but have strangely not managed to be eradicated even in today's times. The legal proceedings that followed one of the most horrific crimes committed in the capital of the country; the sexual assault and homicide of 'Nirbhaya' few years back, highlighted the pressing need to ensure safety for women and bring about a change in patriarchal mind-sets of the population. A lot of people have been crying out loud for better ways to ensure women security and make things better for them. And it seems like, that people are definitely trying to do; something about it! Now finally, there's an app that promises to add its drop into the oceanto ensure safety for women that's completely designed for Indian audiences.

2. Body of Paper

The basic aim of the system is to develop a low-cost solution for GPS based women tracking system (women safety system) which can applied to various domains of the industrial and personal use just by using the very common mean i.e., mobile with android enabled.

The main objective of the system is to track the current location of the person which has an android enabled mobile by extracting the longitude and latitude of that target person.

The primary objective of our system is to track the person and plot the location on realtime system like Google map.

This project main objective is, for the Safety of Women, this app can be activated by just shaking phone three times, whenever need arises. By just three times shake identifies the location of place through GPS and sends a message comprising this location URL to theregistered contacts to help the one in dangerous situations.

The OS uses touch inputs that loosely correspond to real-world actions, like swiping, tapping, pinching, and reverse pinching to manipulate on-screen objects, and a virtual keyboard. Despite being primarily designed for touchscreen input, it also has been used in game consoles, digital cameras, and other electronics. Android is the most popular mobile OS. As of 2013, Android devices sell more than Windows, iOS, and Mac OS devices combined, with sales in 2012, 2013 and 2014 close to the installed base of all PCs. As of July 2013, the Google Play-store has had over 1 million Android apps published, and over 50 billion apps downloaded.

Android Studio and Firebase are used for developing our project which are available everywhere. It provides the technical guarantee of accuracy, reliable and security. The current system develop is technically feasible with all the resources need for development of the apps as well as the maintenance of the same is easy.

We are focusing on building an effective, fast and reliant application to make the women of India feel safe and empowered. Our application will act as a 24/7 active help and companion for women so that they don't ever feel that they are alone in the middle of a crisis situation. It will unite and enable the citizens of India and the police to work towards a commonproblem. This app will act as eyes and ears for the police and help them in preventing crimesagainst women. This app has been designed in a manner that it covers the various situationsa wo man can be stuck in like when she is alone or when she is in a crowded place or when she is in a public transport etc.

A wide range of tracking systems has been developed so far tracking vehicles and displaying their position on a map, but none of the applications has been developed so far which tracks the mobility of a human being. Now a day's tracking a person's mobility has become a crucial issue these days be it tracking a criminal came on payroll or a system whichis cost effective and can be used for tracking a human being using a GPS and GPRS equipped mobile phone rather than using a handheld GPS receiver. The main focus of our project is to reduce the overall cost of tracking based on GPS system which is a satellite-based service which is available 24X7 everywhere in the whole world. GPS system can be used to get location which includes details like latitude, longitudeand altitude values along with the timestamp details etc. It is a free of cost service available to every individual. In order to track the movement ofthe person we have used Google Maps for mapping the location sent by the mobile phone. The mobile phone which fetches the GPS location communicates with the server using General Packet Radio Service (GPRS). This service is a low-cost service provided by the service providers which is a wireless data communication system. Mobile phones equipped with GPS receiver are easily available in the market these days and is a booming technologythese days. This cell phone technology has enabled us to communicate almost every part of the world across the boundaries. The GSM/GPRS is one of the best and cheapest modes ofcommunication present these days and in future.

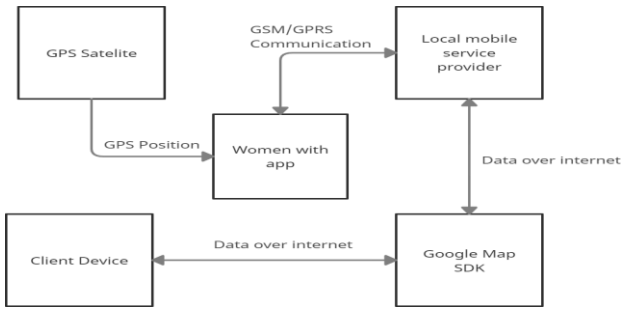

Fig -1: System Architecture of Women Safety App

3. CONCLUSIONS

This is the "Android Application for women security system" which is very useful applicationmainly for girl's safety. When we feel that we are in emergency situation, for example travelling alone in the Auto/Cab at nighttime we can use this application. So that by shaking phone three timeswe can send our location to our family members and to any police stations. So, once we shook phonethree times it instantly sends updated locations messages to all authorized persons and we can stop the crime that will be conducted. So, this application is having both safety and security which needs the engineering code of conduct which is essential in the today's world this mobile application is helpful in future when any problem arises in travelling or any kind of situations.

The technology emerges, it is possible to upgrade these apps and can be adaptable to desired environment. Because it is based new technologies, any further changes can be easily adaptable. Based on the future security issues, security can be improved using emerging technologies. We will try to implement the application without the use of internet. We will try to provide emergency balance in case of zero balance situations. By tapping the feet twice or thrice we will try to make live video call to the registered mobilenumber.

ACKNOWLEDGEMENT

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