

Women Safety App-Women@pace

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Abstract— As a result of increase in the number of women falling prey to assault and harassment, the security factor of women is facing a hike in terms of concern of her safety; whether it be her being lonely on a street with few strangers or getting late to return home late night. Many more of such situations put her in a state which makes her feel if there could be a way to stay in touch of her close one's whenever she feels unsafe or at the time she senses the mark of something threatening they may occur. One of the way to reduce the chances of being a victim to such violent crimes is to identify and call on resources to help you out of the threatening situations. According to statistics, the use of smartphone devices has been growing exponentially since the last decade. Our research is an attempt to converge technology, hardware and software and develop an application "Women safety app-Women@pace" that would bring these resources to your fingertips. The proposed project can pass exact location of the woman to a pre-decided list of contacts and a nearby police station with the help of GPS; after every decided unit of time. The app would open as soon as you unlock your phone and would have a simple interface to avoid complexity. There would be a provision to take and send snapshots of the situation automatically to a predefined email-id. It will also poses a messaging facility.

Key words: GPS, Snapshots, Woman Safety, Smartphone, Application

I. INTRODUCTION

The introduction of smart phones took the world of communication to the next level. Rather than just being able to make and receive a call, the new era "smart" phones have come up with additional features which include Wi-Figs navigation, high resolution camera, and touch screen with broadband access which has increased the sociability. Many of these features are already by default integrated with the mobile operating system which is out of the reach of the people, as a result of which the users cannot manipulate the features. To overcome this limitation "Android" was brought up by google which enables customizable third party debugging and development environment using which the users can now develop customizable applications.

Our motto is to develop an app that ensures a safe environment to women through smart phones; as today most of the people carry smart phones wherever they go. With the help of this app they can stay in touch with their near one's in any unsafe or undesirable situation; they are supposing would happen.

They can alert their close people by sending an emergency message to a pre-defined list of people. Exact location of the woman would also be sent through the GPS to the pre-specified phone numbers and also the nearby police station. The location would be sent after a given unit of time. The user can also chat by sending messages to these contacts. Also there is a provision of taking snapshots and these snapshots would be mailed to a predefined mail id. The user has to just install the application on his/her smart phone and

get himself/herself registered. After signing in he has to enter the contact list and email-id and save it with the server. You also need to keep your GPS on whenever you feel unsafe while travelling.

II. TYPES OF EXISTING SYSTEMS

A. Women's Security

This app is developed by AppSoftIndia. The key features of the app are: the user has to save some details. These details include: Email address and password of the user, Email address and mobile number of the recipient and a text message. Then, app is loaded as a "widget", so that when the user touches the app, it alerts the recipient. Another key feature of app is that it records the voice of surroundings for about 45 seconds and this recorded voice, text message containing location co-ordinates of the user is sent to the recipient mobile number.

B. BSAFE- Personal Safety App

This app is developed by Bipper Inc. On March 6, 2015. The app's motto is "Never Walk Alone". This app helps the user to create a gang of 'Guardians' and SOS message will be received by them when the user is in trouble. Also another good feature of this app is one of the guardians will also be called. The SOS message also includes location of user via GPS. The user can also enable the GPS tracker and let the friends know location at any time.

C. SAFETIPIN- Complete Safety App

This is a privy security app having the troop of features; GPS tracking, emergency, important contact numbers, directions to safe locations, pins displaying unsafe and free from danger areas and a Safety Score. It drives in advance of exemplary women safety apps, and presents a vast range of features, so that they will help to practically plan and can give a counter attack to those spots in the locality. When a person is going to move to a new locality that is unknown to him and if he or she want to know the safe areas, then this app will be much helpful providing the user a map based view of the locality along with its safety score. Also, the person can select the areas on those he or she excited to go and can get knowledge about the risks of hassles about the area, so they can finally take safety measures.

D. Police Nearby

This app is developed by Big Systems in 2013. The police nearby scanner android app is built with the aim to connect citizens & students to their nearest police stations city wise at one click and will permit the community to become more involved right from your Android Smart phones. Any local, state, or school, College police department as well as other law enforcement agencies can use Police scanner Android App to provide you with enhanced service and get better communication. Police nearby app is free to download without signup.

E. Application Development

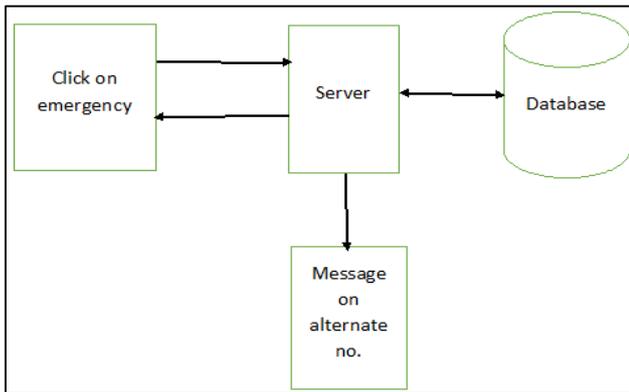


Fig. 1: Architectural Diagram

In the above architectural diagram there are three main blocks, Server, Database and Admin. The user has to first login and insert the contacts which is then connected to the Database through the Server. The registration details of all the users are stored in the database and not on the server.

In this module the user has the facility to register the account with the user name and password. The right authenticated user can only have the access to the application and use the service. It controls the user action like managing the contacts for emergency service and protect their user file.

Global System for Mobile communication (GSM) SIM card is inserted inside the mobile device to send and receive the messages using GPRS. The GSM SIM card number is registered with the system. With increasing usage of GSM, network services are expanded beyond speech communication to incorporate many other custom applications, machine automation and machine to machine communication.

This module will going to enable the silent mode and data service automatically. After enabling the data service the location of the person is automatically send to the contacts.

III. CONCLUSION

“A Safe community means that all people, regardless of gender, race, ethnicity, language, disability, age or sexual orientation, have an equal right to freedom from fear and violence. We as a community have a responsibility to address the issue of violence because it belongs to everyone”.

As per detailed discussion with team members and detailed study of technologies which we are going to use for developing an application, we can successfully achieve our project goal as we want with centralized database facility.

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