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Tracking the Accidental Victim Using Andriod Application

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Abstract

During disasters people face problems in communicating and informing about their location to their dear ones and will be in need of urgent help Track the victim is an application that will solve the above problem The application shall allow the user to select contacts to whom the location details must be sent, in case of disasters. The application shall track the location of the user. The application shall automatically send text and voice messages to preset contacts. The emergency call facility that is currently available will not allow the user to send voice and text messages containing users location.

This social issue is solved by our application. Even though emergency call facility is available but when the person is unable to talk, in that situation our application is very helpful.

Keywords— *Short Message, Service, Global Positioning Service, Inter Networking*

INTRODUCTION

In case of disaster there will be a complexity of contacting to required persons at that time, user is provided with an option in android mobiles using which person can send emergency text and voice messages using a buttons and accelerometer, the message includes predefined text and per-sons current location details to the predefined contact list. We may have emergency calls for the person who met with disaster but we don't have facility of voice and text message which includes persons location which is achieved by our application. Even though emergency call facility is available but when the person is unable to talk, in that situation our application is very helpful. Mainly it solves the social issue

PROBLEM STATEMENT

To develop an android application that sends predefined voice message and text message containing users location to a prededined contact list during disasters.

EXISTING SYSTEM

Around various results planned on behalf of the worried problematic then for individually consume around benefit above additional. and around planned the clarification also consequence of coincidence case spending lone acceleter device which might exist problematic by way of the situation may prime toward untrue apprehension aimed at about cases. the method helps extra one expedient toward increase then correctness to scheme then as well take delivery near circumvent allusion now circumstance for deceitful fear. current structure also practices then outside components hereafter growing the price there project. the structure changed needless price via the previously current substructure like victim, constructed on customer moble.

PROPOSED SYSTEM

The emergency call facility that is currently available will not allow the user to send the text messages containing user's location which is further converted into voice message at the receiver side. Even though emergency call facility is available but when the person is unable to talk,

in that situation our application is very helpful. This social issue is solved by our application.

OBJECTIVE

The main purpose of the project as follows:

The core impartial of Track the Victim is to send the text message with the location of the person at the time of disaster. Convert the received message into voice.

LITERATURE SURVEY

Literature survey is mainly agreed ready now directive toward difing the contextual present assignment that benefits for identify mistakes on present structure & help arranged that not difined difficulties we can labour it. Thus, a succeeding issues no lone explain the circumstantial in which plan however too expose in difficulties or faults that inspired for suggest results in to effort in this job. A diffrent of exploration consumes remained complete scheduled authority alert preparation. Succeeding segment discovers unlike situations that chat near several issues linked to Accidental victim.

STUDY OF RESEARCH PAPERS

Subsequently studying the necessities undertaking to be situated, the following phase define difficult then thoughtful the situation . primary action on point is learning the current structure then further situated to detain the necessities too zone then organization. Both actions are similarly significant, then primary movement helps by way a base like providing purposeful conditions formerly effective project like planned structure. Accepting things also requests of a fresh structure stands extra problematic also needs innovative philosophy also considerate of present successively scheme and testing, inappropriate thoughtful like present structure be able to prime deviation after answer. like planned structure plan elaborate then subsequent.

Paper[1] This survey presents an overview of wireless black box using MEMS accelerometer and GPS tracking system is developed foraccidental monitoring. The system consists of cooperative components of an accelerometer, microcontroller unit, GPS device andGSM module. In the event of accident, this wireless device will send mobile phone short message indicating the position of vehicle byGPS system to family member, emergency medical service (EMS) and nearest hospital. The threshold algorithm and speed ofmotorcycle are used to determine fall or accident in real-time. The system is compact and easy to install under rider seat. The systemhas been tested in real world applications using bicycles. The test results show that it can detect linear fall, non-linear fall and normalride with high accuracy

Paper[2] [The ability to track vehicles is useful in many applications including security of personal vehicles, public transportation systems,fleet management and others. Furthermore, the number of vehicles on the road globally is also expected toincrease rapidly. Therefore,the development of vehicle tracking system using the Global Positioning System (GPS) and Global System for MobileCommunications (GSM) modem is undertaken with the aim of enabling users to locate their vehicles with ease and in a convenientmanner. The system will provide users with the capability to track vehicle remotely through the mobile network. This paper presentthe development of the vehicle tracking system's hardwareprototype. Specifically, the system will utilize GPS to obtain a vehicle'scoordinate and transmit it using GSM modem to the user's phone through the mobile network. The main hardware components of thesystem are u-blox NEO-6Q GPS receiver module, u-blox LEON-G100 GSM module and Arduino Uno microcontroller. Thedeveloped vehicle tracking system demonstrates the feasibility of near real-time tracking of vehicles and improved customizability,global operability and cost when compared to existing solutions.

Paper[3] This paper proposes an improved nonparametric regression (INPR) algorithm for forecasting traffic flows and its application inautomatic detection of traffic incidents. The INPRA is constructed based on the searching method of nearest neighbors for a trafficstatevector and its main advantage lies in forecasting through possible trends of traffic flows, instead of just current traffic states, ascommonly used in previous forecasting algorithms. Various simulation results

have indicated the viability and effectiveness of the proposed new algorithm. Several performance tests have been conducted using actual traffic data sets and results demonstrate thatINPRs average absolute forecast errors, average relative forecast errors, and average computing times are the smallest comparing withother forecasting algorithms.

SYSTEM DESIGN

The system has specific options in widget. When particular option is get selected then automatically

predefined contacts will be fetched. After fetching contacts GPS tracking is done where it ends the location of the user, along with the location detail of the user, the predefined text message is send to the fetched contact list Or when accelerometer detects the particular

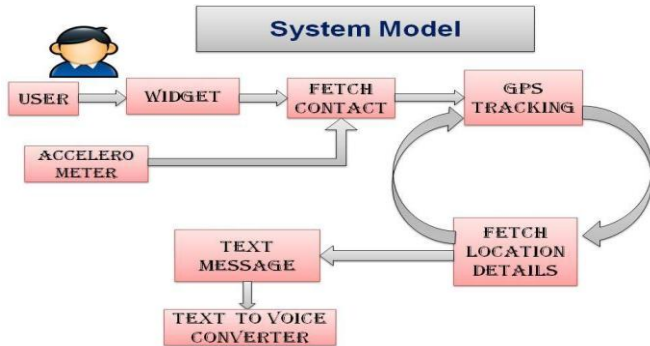


Figure.1 System Model

frequency of mobile then system gets activated for further processes .on the receiver side, when the message is encountered, the text message is converted into voice message by the converter which will be installed in the receiver mobile.

In below diagram main will call the fetch contact list function after fetching it will send the contacts to the main function. Then, main function will call the Track location function where latitude and longitude is tracked and returned to the main function. If the details are not found, again the GPS tracking is done until the degrees are found . The main will send the latitude and longitude as an input to the fetch location function where address of the location is known that is latitude and longitude are converted into the address and it is sent to the main function . If the address is not found again it is tracked until it is known and sent it to the main function. The main function will send the text, location and the fetched contact list to the send text message function, where the messages are sent to the respective contacts and it is given as an input to the next function called converter where it converts the text containing location and the pre-defined message into voice message.

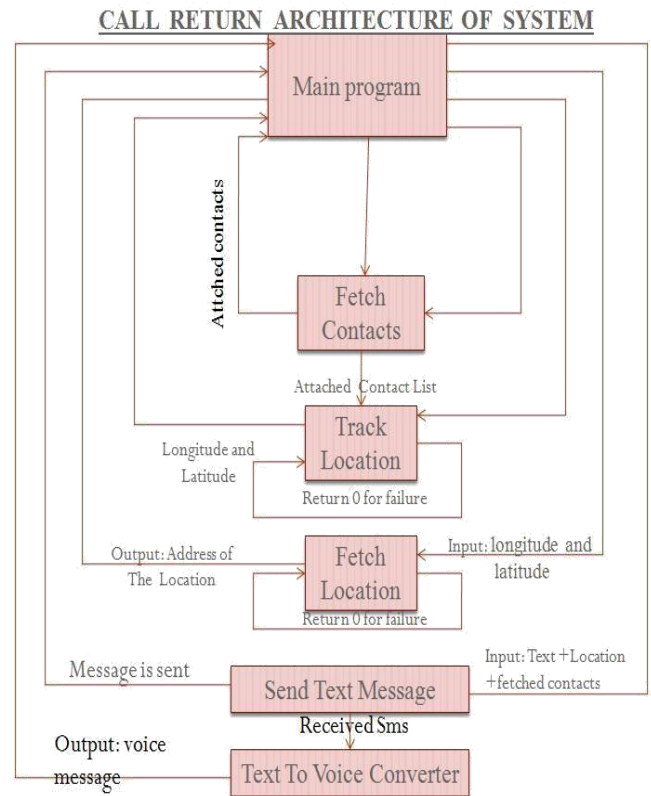


Figure 2. System Architectute

ASSUMETION AND DEPENDENCIES

To convert the voice message, the receiver mobile will have a converting text to voice support feature.The user should have android.The accelerometer will detect the frequency if the frequency is greater than threshold frequency that we have set.

SOFTWARE AND HARDWARE REQUIREMENTS

A.Software Requirements

Java programming is used for software development Eclipse IDE to develop andriod application

B.Hardware Requirements

An accelerometer is a device which measures proper acceleration. To detect the frequency of mobile it is required.

CONCLUSION AND FUTURE SCOPE

The main aim of this application is to track the victim place during disaster and alerting the

relatives by sending the message. The system is integrated with Android application by using android SDK and eclipse. Any traveler can use this application and the one who is in trouble can also use this application.

There are many cases in the society, where we see the chances of failure for not conveying the message to their dear one's. Here is our application which will full the requirement for the society. we will try to implement this for android lower versions

REFERENCES

1. Watthanawisuth, N. "Wireless black box using MEMS accelerometer and GPS tracking for accidental monitoring of vehicles", IEEE conference in Jan, 2012
2. Hoang Dat Pham, "Development of vehicle tracking system using GPS and GSM modem" IEEE conference in Dec, 2013
3. Shuming Tang, "Traffic-incident detection-algorithm based on nonparametric regression" IEEE conference in March, 2005
4. Fogue, M. "Automatic Accident Detection: Assistance Through Communication Technologies and Vehicles", IEEE conference in August, 2012
5. L. Chuan-zhi "Method of Freeway Incident Detection Using wireless Positioning," in Proceedings of the IEEE International Conference on Automation and Logistics, 2008, pp. 2801 - 2804.
6. Ujwala Patil, Sachin Chandanshive , Rahul Dhumal, Mohan Torane, Shreya Hiwale "Embedded Automation For Traffic Control With Accident Alert System" , Proceedings of IRF International Conference, 13th April-2014, Pune, India, ISBN:978-93-84209-04-9
7. R.Monisha, Jessen Joseph Leo, B.T.Tharani Sri Sakthi "Car Authentication and Accident Intimation System Using GPS and GSM", IJIRCCE in March 2014
8. Prof. Abhay P. Bagade "Cell Phone Usage While Driving Avoidance with GSM-RF Based Accident Emergency AlertSystem", IJARCCCE in May 2013
9. Marco Roccetti, Gustavo Marfia, Alessandro Amoroso "An Optimal 1D Vehicular AccidentWarning Algorithm for Realistic Scenarios" iee 2013
10. Yasha Sardey, Pranoti Deshmukh, Pooja Mandlik, Saurabh Shelar , Minal Nerkar , "A Mobile Application for Bus Information System and Location Tracking using Client- Server Technology", IJETAE in April 2014
11. Mr.S.Iyyappan , Mr.V.Nandagopal , "Automatic Accident Detection And Ambulance Rescue With Intelligent Traffic Light System" , IJAREEIE in April 2013
12. Victor Olugbemiga MATTHEWS, Emmanuel ADETIBA , " Vehicle Accident Alert and Locator (VAAL)", IJECS in April 20