Tracking the Accidental Victim Using Android 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.

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 accelerer 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 defined 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 different 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 for accidental monitoring. The system consists of cooperative components of an accelerometer, microcontroller unit, GPS device and GSM module. In the event of accident, this wireless device will send mobile phone short message indicating the position of vehicle by GPS system to family member, emergency medical service (EMS) and nearest hospital. The threshold algorithm and speed of motorcycle are used to determine full or accident in real-time. The system is compact and easy to install under rider seat. The systems has been tested in real world applications using bicycles. The test results show that it can detect linear fall, non-linear fall and normal ride 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 to increase rapidly. Therefore, the development of vehicle tracking system using the Global Positioning System (GPS) and Global System for Mobile Communications (GSM) modem is undertaken with the aim of enabling users to locate their vehicles with ease and in a convenient manner. The system will provide users with the capability to track vehicle remotely through the mobile network. This paper presents the development of the vehicle tracking system's hardware prototype. Specifically, the system will utilize GPS to obtain a vehicle's coordinate and transmit it using GSM modem to the user's phone through the mobile network. The main hardware components of the system are u-blox NEO-6Q GPS receiver module, u-blox LEON-G100 GSM module and Arduino Uno microcontroller. The developed 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 (NPR) algorithm for forecasting traffic flows and its application in automatic detection of traffic incidents. The INPRA is constructed based on the searching method of nearest neighbors for a traffic state vector and its main advantage lies in forecasting through possible trends of traffic flows, instead of just current traffic states, as commonly 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 that INPRA's average absolute forecast errors, average relative forecast errors, and average computing times are the smallest when compared with other 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

![System Model](image1.png)

**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 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.

![System Architecture](image2.png)

**Figure 2.** System Architecture

**ASSUMPTION 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 android 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.

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