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# **Emergency Rescue:**

Helping hands for people in city

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Abstract— This paper is for public help in critical situation like accident, robbery or any fire accident. In this project, the main motto is to help the people in city through android application. Recent working of systems like police station, hospitals and fire brigade is manual. Through this developed website and android application this system may change to online service. For this user will click photograph from application and send it to nearest system which he required that is either police station or fire brigade or hospital. As while sending photograph the current location of user as well as date and time will also be sent to the particular systems, they does not require much efforts to search those places on map or to ask someone else for enquiry.

As system will also have an account on android application so their efforts are again reduced. Not only the whole route but also the shortest route among those routes will be displayed on application screen.

Keywords-Android mobile, computer, GPS technology.

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#### I. Introduction

Now day's we hear many accidental cases, various fire accidents at various places, many robberies at shops, houses, even on roads women are being robbed by chain snatchers. These are increasing in our country day-by-day. We do not need to tell how horrifying news is that has become common these days. Every time a person whether he or she steps out his or her family member feels a twinge of fear.

When such accidents occur, people hesitate to come forth and help people because of the fear of police cases. At any such unfortunate time, smart phone can be your best friend to help others with various applications in emergency by sending alert messages to chosen people or to parents. In today's fast moving life services based on location has very much importance in everyone's life. As the trend is of smartphone, mobiles and the entire gadget emerging today it's very obvious for the mobile user to have the location based services in mobile phone. Location based servicers (LBS) application that provides information to users based on their location is a growing business.

So, by considering this an android application is developed such mobile application which is useful for everyone in daily life. The application based on mobile phone or PDA having GPS receptor and GSM network.

When user spot any of accident occurred, then user will take pictures of accidents and send them to the server i.e. nearby police station, hospitals etc. along with location information. Such facility is provided with the instant click on buttons.

This paper presents a security for people out there in open world. It also represents security provide for people through rescue systems like police station, hospitals and fire brigade on android application. The application uses data from database which is present in website's backend, which handled by SQL.

As this project covers huge area which makes this emergency rescue system data and excellent choice for people during emergency situation in all over the country.

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All this data and android application are made publicly available to use all this data or classes of this data by other three admin (police station, hospital, fire brigade) through website.

### II. LITERATURE REVIEW

As it is a competitive world and very fast world, everything in the world is to be internet. In this internet world all the things are online. Today, everyone is connected to internet. People use internet for knowledge, entertainment, sharing etc. purpose. Most of the government sectors are connected through internet. For that purpose we design our project to get the benefits of the internet to the people in city.

Emergency Rescue: Helping hands for people in city, is an android app and website which provide the people with Emergency services in their hands with the help of internet services, which include various contacts of emergency services. It also concentrate on all computational resources and manage automatically through the software without intervenes. By the use of internet it has made an easy maintenance of data and related information, which offers efficient computing by centralized storage.

### III. EXISTING SYSTEM

Today's service of police station is that user has to call for police helpline number '100' in any of emergency or to visit police station for any complaint after robbery, accident etc. it is beneficial but if this application is provided for their help, that would be more helpful for people as well as police station and other services like hospitals, fire brigade etc.

Also in case of accidents people have to call '102' for ambulance. People might not able to give accurate

address of a destination to ambulance so it is confusing. It is same in case of fire brigade since people have to call '101'. These are all government provided phone numbers.

Today people have anything to get faster and in less time. People use internet for knowledge, entertainment, sharing etc. purpose. Most of the government sectors are connected through internet. By considering this we think to develop project which is based on point of social awareness & to solve the problems in critical situation around the surrounding areas/city.

#### IV. PROPOSED WORK

Currently the city is facing huge problem and there is need to have a direct control from government online, instead of going their physically on-site. This direct control exerts a pressure over workers to do their jobs well and within given time. Use of android app and website too, makes it easy and efficient way to keep records and get job done. Emergency Rescue provides helping hands for people & future of our city.

This application enables the user

- (a) To take snapshots of accidents via mobile device and send alerts messages including location of accidents to a predefined number via short message service (SMS) if the mobile device is not present in the specified radius or in an interest location radius
- (b) Message will be sends to nearby hospital as well as police station in case of accidents.
- (c) In robbery cases, same message will be send to police station and in case of any fire accidents message will be send to fire brigade.
- (d) In all cases, users' location will be traced and messages will be send to nearby police station or nearby hospital or nearby fire brigade.

This project Emergency Rescue: Helping hands for people in city, is an android app and website which is very beneficial to Government as because it reduces time and confusion of officers and it provide direct interaction of citizen to officers i.e. using web portal citizen can provide complaints that are send to officer so according to that he can take proper action for that particular area which is being send by images by local people through android application who need help. The Admin is the main part of system; control the overall management of the system. Location can be shown on Android application using services of Google Maps like navigation system, GPS (Global positioning System) so it will be helpful for officers of those services.

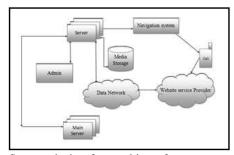


Figure.1: System design for working of emergency rescue

To solve the problem user take snapshots of accidents via mobile device and send alerts messages including location of accidents traced by navigation system to a predefined number data network. If network is turned off, a small notification is sent to registered mobile number via short message service (SMS). Message will be sends to nearby hospital as well as police station in case of accidents. From that data network, that data which is sent will be seen on server screen on website as well as on android mobile phone. If the person doesn't know the exact area of accident, he will be able to see the particular route on map on his mobile phone which is again through navigation system either LBS or GPS tracking system. This will help him to reach destination to reach sooner.

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260 - 262

In robbery cases, same message will be send to police station and in case of any fire accidents message will be send to fire brigade. In all cases, users' location will be traced and messages will be send to nearby police station or nearby hospital or nearby fire brigade.

## V. IMPLEMENTATION DETAILS

This project includes following technologies, methodologies and modules that are used in project. This project works on location based services, it is also mentioned below.

## A. Technologies used

- a) *Eclipse:* Eclipse is an integrated development environment (IDE). It contains a base workspace and an extensible plug-in system for customizing the environment. Written mostly in Java, Eclipse can be used to develop applications. By means of various plug-ins, Eclipse may also be used to develop applications in other programming languages, Such as PHP, Python, and Ruby etc.
- b) Android Development Tools ADT: (Android Developer Tools) is a plug-in for Eclipse that provides a suite of tools that are integrated with the Eclipse IDE. It offers you access too many features that help you develop Android applications. ADT provides GUI access to many of the command line SDK tools as well as a UI design tool for rapid prototyping, designing, and building of your application's user interface.
- c) ASP.NET language: is simply pure text, like HTML files. It is the main building block for application development. You can develop your own application in any languages where you comfortable with the common language run time, including Microsoft visual basic and c#. The language enables you develop Asp.NET we application. ASP.NET in co-operates all the information standard of our time such as XML, HTML 5.0, SOAP plus with ADO.NET foundation and class library. This helps to smoothly execute our application
- d) MySQL: is the most popular Open Source SQL database management system, is developed, distributed, and supported by Oracle Corporation.

## B. Methodologies used

a) Android based mobile phone: Android is a mobile operating system currently developed by google, based on linux kernel and designed primarily for touch screen mobile devices such as smartphones and tablets. Android's source

code is released by google under open source licences,

4) Fire Brigade: Fire Brigade is a module where

code is released by google under open source licences, although most android devices altimately ship with combination of open source and proprietary software, including proprietary software required for accessing google services. Android is popular as well as ready made, low-cost and customizable operating system for high-tech devices. So Android is selected.

b) Machine with standard configuration: Laptop or computer with standard internet configuration required.

#### C. Location base services

Location based services are a general class of computer program-level services that use location data to control features. As such LBS is an information service and has a number of uses in social networking today as an entertainment service, which is accessible with mobile device through the mob network and which uses information on geographical position of the mobile device. This has become more and more important with the expansion of the Smartphone and Tablet market as well.

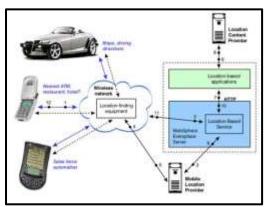


Figure.2: LBS Working

LBS is critical to many government organization to drive real insight activities that take place in various places.

This project includes LBS which include services to identify a location, tracking of a person or object, such as discovering a nearest accident place.

## D. Modules in project

- 1) Admin: Admin is main part of this system which is provided for security. This provides security against unauthorised user. Authorised user like police station, hospital and fire brigade have to do admin login to verify their identity.
- 2) Police Station: Police Station is a module where police those who have registered will able to see only their images posted by user to their account. And do the particular enquiry or send help whereever needed.
- 3) Hospital: Hospital is a module where hospital members those who have registered will able to see only their images posted by user to their account. And do the particular enquiry or send help whereever needed.

4) Fire Brigade: Fire Brigade is a module where fire brigade members those who have registered will able to see only the images posted by user to their account. And do the particular enquiry or send help whereever needed.

ISSN: 2321-8169

260 - 262

#### VI. CONCLUSION

Traditional information technology systems used by government services today, they have been developed to accomplish some specific task and provide reports and analysis of events that have taken place. Emergency Rescue is the best solution for any transfer of information to government services which keeps their systems simple and then builds you system architecture on this base over a period of time.

In today's rapidly changing environment, it is quite necessary for any organization to manipulate their organizational data in real time so that they can achieve their goals successfully. This system gives a powerful solution for handling data manipulation in governments sectors. Also it helps for handling their services.

The user module will be enable to click photo and send the photo to services along with location day date and time so that there will not be any confusion of accurate place to reach. And the help will be reaching on location in lesser time.

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