



E-Safety Android Application

Siddhi Rane, Anamika Jaiswal, Rahul Mistry

Department of Computer Engineering, VPPCOE & VA

ABSTRACT :

Crime is a component of human activities and needs to be managed. No human society has ever been totally freed from deviants and it's unlikely that society will ever be. The more populated and complex a society becomes the broader the range of anti-social conducts that must be controlled by the government through the armed forces and other agencies especially the Police Force, Fire Brigade, Ambulance, & Women's safety.

The implementation of E-Safety an Android app is the central focus of this project designed and evaluated with Android Studio (Java development Kit) for the front end interface while MYSQL are used to design backend of the application.

This system will record and report emergency inreal time. Reporting of emergency comes with two ways either the person at emergency situation can report directly by Smartphone with nearest emergency facility or by reporting and response team comes with emergency facility like Medical, Fire, Police & Women's safety. The system works on the principles of client-Server system, wherein the server responds to the requests of the Clients.

After registering details, information will placeonto server database in order that rescue team will get information and provide appropriate services to the person. This proposed work, we will record all emergency details of rescued person with location onto maps, GPS will provide detection of emergency person coordinates tracked by GPS and also provide plotting coordinates onto maps in the web application.

Introduction :

Various emergency handling services are presentWorld- wide to cater to the emergencies faced by thecommon man. The USA has its own such system by the name 911.At present, India does not have such similar well- defined crime & emergency handling approach. E- Safety an Android Application is developed keeping in mind the lack of anysuch system in India. It provides a properly planned andorganized emergency management force, capable ofresponding to public emergencies.

The person in an emergency or anybody at the emergencysite will use E-Safety to avail the service. The common man can make use of this technique just in case of any emergencies. The system works is such how , that victims will receive help within the sort of police, ambulances or fire-brigades depending on the situation. This system drives to and responds to emergencies promptly.

It is basically an android application that uses (Java Development Kit) on the front end and (SQL Database) in back end. PHP script is used for communicating between the client side and the server.

It has a client as well as server side built in one application. On the client side the user has got to login first to use the application. If the user doesn't have login details of his own then he/she has got to check in or register within the application. For registering in the application the user should give his name, email, mobile number and provides a strong password to his login details. Email, mobile number is for better authentication of a user.

On server side it has three admin ID created by programmer itself the admin has to login in the application by his id. Three id are police, ambulance, fire. Admin has to login first if the admin is police then police has to login with police id. When the admin login into his account it gets redirected to map. If any request is there marker will be seen on the map. The marker is that the current location of the user. If we click on the marker we will see number above the marker. The number indicates that the server has that many request by the user. If admin clicks on that number he will get a report of that complaint. In that report there will be details which has been submitted by the user. If the admin has completed that complaint he can delete the complaint by pressing on delete button. When the admin clicks on delete button it will get redirected to the map and the map will automatically get refreshed and the marker will not be there of which the admin has completed the complain.

Literature Survey :

Phone call is the only system to call for police, ambulance, fire brigade & women's safety. The difficulties people face that is police coming late after the incident has happened & not getting the actual matter of the incident because of not getting valid proofs. Same with ambulance, firebrigade & women's safety.

People also make fake phone calls due to which police face difficulties, people usually make fake phone calls from PCO, & from fake mob numbers. This creates a lot of problem to police because when they come to incident place there is nothing happened & they could not catch the fake phone caller also. This is one of the major problem which is usually faced by the police.

In this system, the call that you make to police for a complaint is first transferred to the control room. There the call is sent to your nearest police station then they take note of the complaint & according to that complaint the police takes action. This takes a lot of time, in the procedure of transferring the call & taking note of the complaint & mentioning the location of the place where crime has taken place. Even though the police could not get the exact location where the crime has taken place.

This was in case of police, some problems faced by Ambulance, Fire Brigade are like not getting the exact location due to which it gets too late to rescue. The calling system does not provide any proof with the exception of mob number-this is the only thing which indicates that the user is genuine. In case of ambulance & fire brigade, it should get the exact location but by calling system it is not easy to get the exact location.

Proposed Methodology:

This current E-Safety application is built knowing the problems that are faced in the earlier system. Problems such as instant notification to the police system, exact location of the place where crime has taken place & one of the most important services that's uploading the pictures of the crime that is taking place which can be taken as proof to the police. -No need to call, then the call is transferred to control room & then to the nearest police station.

Exact location: This sends the exact location with the help of GPS, your mobile location will be sent along with your location

Fake complaints problem: One cannot place a fake complaint because while you sign up to the app, such as Aadhar card number which will place all your details along with your address. So there is no chance of placing fake complaints & if anyone places will be caught easily.

Proposed System:

- User: The user for the app are often anyone who wants to file a complaint regarding anything. The user has to register after which he can login and start using the app.
- E-Safety App: It'll act as an interface for the user. It will allow user to take file a complaint anywhere they are.
- It's an android application that uses Java on the Front-end and Firebase at back end.
- It has client as well as server side built in one application. On the client side the user has to login first to use the application.
- If the user doesn't have login details of his own then he/she has to sign up or register in an application.
 - For registering, the user should give his name, email, mobile number and give a strong password.
 - Email and mobile number is for better authentication of a user.

Conclusion:

Hence, the system's main motive is to supply safety in order to lower the amount of crimes and maintain safe environment. It helps the people in the any emergency using their android smartphone when no other means of communication exist.

On implementing this application we are now ready to help people for reducing crimes or complaining or requesting for emergency services through android application. It requires internet connection for using this application so the client should have internet connection.

So now it's easy for people to file a complaint or request for emergency services like ambulance, fire brigade and women's safety. The server can take quick action looking at the description, photos and the exact location of the client.

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