Abstract

Smartphone’s are existence utilize for various ranges of vigorous activities including social media, messaging, a chart, context directorate in addition for location applications. Emergency never comes with prior information. In real world case such emergencies and reporting them is a real challenge. This paper contains the existing systems detail survey and proposed system to overcome common problem of having manual intervention while reporting emergency. We are proposing the new idea for emergency detection and reporting. This system will record and report emergency in real 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. It works in three steps as detection of emergency with current location, user data collection and processing and reporting to web application. This is the client-server GIS and Smartphone application for the person at emergency situation. the person at emergency select the emergency service such as in client application medical, fire, police, then it detect the user current location along with
information name of the person and contact number(person’s identity) for providing service then 
register, after registering their will be two options either the person at emergency select its own 
nearest service such as for medical nearest hospitals to provide medical facility, in case of fire 
nearest fire stations and police in criminal, illegal activity etc and second way after registering 
details information will placed onto server database so 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, GIS will provide detection of emergency 
person coordinates (latitude and longitude) tracked by GPS and also provide plotting 
coordinates onto maps in the web application. Current project also Tracks location of person 
and sharing it with helping message to its family members, friends or any by selecting contact 
number from Smartphone and share via SMS or any social applications like face book, email, 
whatsapp so that front person understand person is in emergency and they will help them.

References

1. Fuming Shih, Oshani Seneviratne, Ilaria Liccardi, Evan Patton, Patrick Meier, Carlos 
Castillo, “Democratizing mobile app development for disaster management ”, AIIP ’13 Joint 
Proceedings of the Workshop on AI Problems and Approaches for Intelligent Environments and 
Workshop on Semantic Cities, Pages 39-42.
2. Appdynamics, 
https://www.appdynamics.com/media/uploadedfiles/White_Paper_Going_live_with_a_mobile_a 
3. DeeshelMandloi&Rajiv Gupta, Evaluation of accident black spots on roads using 
Geographical InformationSystems (GIS), Map INDIA Conference,2003
4. Apparao. G, P. Mallikarjunareddy Dr. SSSV Gopala Raju, Identification Of Accident Black 
Spots For National Highway Using GIS, INTERNATIONAL JOURNAL OF SCIENTIFIC & 
TECHNOLOGY RESEARCH, VOLUME 2, ISSUE 2,2011.
5. Telecom Regulatory Authority of India: 
trai.gov.in/.../Consultation%20paper%20IECS%202015-3-13.pdf.
6. Aurangabad Municipal Corporation (AMC): 
Emergency Situations in Urban Areas and Provide Services", International Journal of Computer 
Sciences and Engineering, Volume-03, Issue-05, Page No (345-350), May -2015, E-ISSN: 
2347-2693.
Rescue Application and System” The 11th Annual Mediterranean Ad Hoc Networking Workshop 
10. Komwit Surachat, Supasit Kajkamhaeng, Kasikrit Damkliang, Watanyoo Tiprat, and 
aninnuch Wacharanimit, “First Aid Application on Mobile Device”, International Scholarly and 
Scientific Research & Innovation 7(5) 2013,pp-361-366.

12. Kumar, S.; Qadeer, M.A.; Gupta, A., "Location based services using android (LBSOID)," 
in Internet Multimedia Services Architecture and Applications (IMSAA), 2009 IEEE International


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