

Emergency Services

Yogita Shelar¹, Akhil B Hojane², Sakshi Patel³, Amol Hate⁴, Dhruv Shah⁵

Assistant Professor, Computer Engineering Department¹

Student, Computer Engineering Department^{2,3,4,5}

Atharva College of Engineering, Mumbai, India

yogitashelar@atharvacoe.ac.in, akhilbhojane-cmpn@atharvacoe.ac.in, sakshipatel-cmpn@atharvacoe.ac.in,
amolhate-cmpn@atharvacoe.ac.in, dhruvanil-cmpn@atharvacoe.ac.in

Abstract: *This abstract introduces an Emergency Services System designed to streamline emergency response processes. The system accommodates patients, ambulance drivers, and hospitals, fire brigades and fire locations through a user- friendly interface. Users register and log in to access functionalities tailored to their roles: patients can book ambulances based on availability and hospital proximity while viewing detailed ambulance listings. Ambulance drivers can view patient requests, accept them, and update their status upon completion. People can report fire; admin can assign rescue teams respectively. The system efficiently manages multiple requests, displaying remaining patients, fire locations when a driver is on duty and marking accepted requests accordingly. Additionally, hospitals maintain driver records, fire brigade team records, facilitating seamless management and coordination within the emergency response network. Emergency medical response in India is lagging behind other countries. This is partially because of lack of technology implementation at ground zero. To address the issue, we are introducing emergency services system. It would take India to competitive position in emergency services around the globe. Over the last few years there is a revolutionary development in the field of Internet of Things (IoT). [1]. It can be used seamlessly & widely in large number of end system where subset of a large amount of data can be accessed and processed easily and powerfully. IoT and smartphone technologies helps in building a platform which serves every smartphone user. The application collects location information from Global Positioning System (GPS) hardware and uses Google Map Application Programming Interface (API) to plot details of the ambulances and location where fire has been caught on the Google Map Client of the App. [1]. Same functionality can be used for the other module which enables user to find the hospitals with the number of services provided by those in brief manner. With the help of medically equipped and technologically powered ambulance, information about patient's health details can be sent to the hospital in order to take further action. The platforms that are used, capable of molding into various services that are implemented and it is believed that these technologies can make a revolutionary work in public GPS work if utilized properly. An online fire reporting system is a platform that allows users to report fires to relevant authorities in real-time using the internet. This system can be used by the general public or emergency services to provide fast and accurate information about the location, intensity, and other relevant details of a fire.*

Keywords: GPS- Global Positioning System, Ambulance hiring, Fire Brigade, Emergency, Services, Request, dispatch

