SmallSEOTools

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A disaster affects a wide range of resources. A lot of people's lives get sacrificed. The situation worsens because of the confusion generated by people itself. Our app will help in the rescue process by assigning ambulances to the victims and provide shortest and safe route to the nearest assigned hospital. It informs fire brigade (if required) and traffic police to about the routes to be taken by the ambulance so that they can make passage for the ambulance. Our system also consists of a built-in person finder which can be used to track and find people during disasters.[1,2] We can use this data for further analysis, report generation etc. D.Providing Healthcare Services Health care services play a crucial role when such incidents happen. Optimum utilization of resources and services is the need of the hour. The resources range from antibiotics supplied by pharmacist to organizing rehabilitation camps conducted by Govt authorities. Our application acts as an intermediary platform and informs nearby hospitals and government pharmaceutical institutions about the disaster that has occured. Figure. 2. Block Diagram For Disaster Management V. Current Scenario After extensive research on various disaster detection and management application, it is observed that no application is available which can detect as well as manage disasters. According to the information gathered, (Brihanmumbai Municipal Corporation) BMC has launched its own disaster management mobile application developed by Aben Software which costs around 2.7 Lakh rupees. It has some limitations and features are very basic. It is an android based mobile application. Major development is required for various supporting features as currently it has only SOS and weather reports[3]. There is another app "Emergency" intended for western continents is developed by 3 Sided Cube which has good features like storm alerts, location sharing and safety notifications[7]. National Grid developed"Signal" an application to provides services through SMS and social media platforms. It was used widely during hurricane Irene[6]. Plerts (also known as "BuddyGuard") was developed by Southwest Interactive. Just after its launch Japan got hit by an earthquake followed by tsunami. People used this app at that time and it was proven to be useful in such conditions. It shares the locations and sends information to the contacts whenever the signal goes up. until that it saves all the details offline and wait for signal[6]. The "Disaster Alert application" by Pacific Disaster Center features current global disaster and active hazard info on an interactive map or list. Users can also share or add information on current situations[4]. The Emergency radio app provides quick access to emergency services and also helps in mapping the event. It guide users about what to do and how to do in case of emergency. It provides real time information[5]. During an emergency, "Disaster Caster" app by Optimized Telecom broadcasts your details to family and friends, telling them what to do, and, most importantly, where to meet up. It also notifies your emergency contacts about your location[5]. Hyoungseong and Park proposed an application for disaster management which was packed with good features like Earthquake alerts using open data API, Location of shelters, Tsunami alerts, evacuation route and other information[10]. Sapora Sipon and his colleagues developed an application "Informer-on-Site" to give people a platform to report and complaint about disasters directly to the local government officials. It uses uses location and images for reporting and filing complaints. Users can also complain using SMS. Alerts and notifications are also sent in case of emergencies[11]. "FEMA" app developed by FEMA. It uses a shared map where both government officials and people can add alerts and notifications. Other than that it also provides safety tips,shelter locations and other useful information[12]. Use of Twitter analysis in current systems. There is still a lack of clarity about the role played by social media platforms like Twitter and Facebook for effective communication of disaster related information. One system used GMB dataset for classification of tweets whether they are related to disaster or not. However they considered only natural disasters. Another thing that their system provided was classification of tweets into subjective and objective. Next thing was extracting named entities from disaster-related news[17]. Another project that used Twitter analysis was to provide a disaster mitigation support system. The implemented a web-GIS in order to determine safe zones and circumference of disaster affected area. The affected places were represented using latitudes and longitudes by using plotGoogleMaps function in R. So user checks the area for disaster related information. Then tweets related to that area area are shown and other than that it provides three buttons for traffic, weather and safe zones for that particular area using APIs[18]. VI. Features Our proposed system is a cross platform application based on Cordova Phonegap. Advantage of building a cross platform application is that hybrid applications can work on multiple platforms. Phonegap follows 'Write once, run anywhere' strategy. It is not required to write code for each platform separately. Ultimately it reduces development time. Currently supported platforms are windows, android and iOS. Built-in Person Finder provides a registry and message board for survivors, family, and loved ones affected by a disaster to post and search for information about each other's status and whereabouts. Many a times in course of disaster, the areas affected by it suffers from bad network connection and it is either not reliable or not available at all. It takes a lot of time to connect with the support team over phone calls as many people are also trying for the same. Offline Bot is a useful feature in such conditions. In-app offline-bot can help people find nearby places such as hospitals, refugee camps. It also provides route to the safe places by SMS. We will also provide offline maps for navigation in low or no network coverage. Using social media and crowdsourcing to get details about disasters in real time using text mining and classification. According to the information collected from Crowdsourcing and tweets. We can mark danger zones and locations affected by disaster and alert people about that by sending push notifications. In our application, we will provide a dashboard where disaster related news in form of list view, notifications, location and other information are provided. Collaboration with emergency services. Public chat to connect people and help each other during disaster. Other features like SOS, Weather information and Emergency Helplines and Volunteer Registration. VII. Process Diagram Figure. 3. Block Diagram For Disaster Management VIII. Conclusion Effective planning and management of disaster is essential for proper functioning of cities and nations in general. Technology had become the very fabric of our society and it is time that we must embrace it. With proper tools and countermeasures it is now possible to reduce the impact of disaster. The major obstacles that hinder our progress are insufficient funds, lack of proper legislature policies for rescue and rehabilitation operations, not taking actions in timely manner, misrepresentation of information, lack of coordination between state and central government entities etc. Our application acts as a platform and forum where it integrates people as well as public entities. With help of cooperation it would give a sense of security. Our application would help people by providing disaster related information in real time and allowing them to take quick and conscious decisions. It is also beneficial to government authorities for effective utilization of resources and for analysis to avoid such disaster in future. Our proposed system, however not a complete solution is still a step closer towards sustainability.