

Mobile App for Disaster Management & Information Technology in Emergency Preparedness and Response

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ABSTRACT

Disaster happens in two ways both man rolled out action and characteristic improvements. Man-made activity, for example, substance spills, mishaps; atomic spillage can be recorded under the man-made catastrophes. Catastrophic event like surges, violent winds etc., .Use of Internet to know the writing on cataclysmic event. Web is referred to as often as possible for data sharing amid the crisis circumstance .In this natural corruption happens suddenly; at any were whenever yield of this death toll, property and it changes the whole life cycle of the general population. The fundamental point of this is building up a portable application for awesome incident security tips, and giving crisis area data. In this applications sharing information in troublesome condition how to dealing with in that particular situation. It creates with new innovations and apparatuses for data sharing amid crisis periods of debacle. The highlights in this paper with intelligent video and well-ordered guidance incorporating modified cautioning pointers in territories convey to calamity.

Keywords: Disaster Management, portable application, location identification, technologies tools.

1. INTRODUCTION

Disaster is generally categorized into two types; one's man made another is natural .Manmade disaster such as road accidents, chemical leak, nuclear leak, structural damage, etc. Natural disasters like floods, cyclones, landslides, tsunami, droughts, and earthquake. All of this environmental degradation more frequently occurs in this world. Disaster Management is not about avoiding and ignoring the thread but also to decrease the damage and loss of consequence. This mobile application mainly is focusing to safe the people lives and goods from the disasters.

This application uses SQL for the purpose of data management. It should be a database for data handling, storing and retrieving information from the database. First module of this paper registration form fills the user's information, or already registered. You will be having sign in option of this [1]. This application includes the history of disaster, and disaster management techniques and information about the event.

This paper deals with the technological part that can be used to implement an efficient way to give safety preference to the people.

1. Safety tips.
2. History of disaster.
3. Disaster Management methods.

These three modules are present in this application.

2. IMPLEMENTATION

This application provides the idea about how to save the people's life and goods.

2.1. Phase-I (Safety tips)

To provide Security tips following Debacle: Floods, Earthquake, Landslides, Cyclone, Road accidents, Chemical leakages. To save our authorities and properties based on this instruction. This module is providing safety preference to the people, environmental degradation that reduces the population growth in this world.

2.2. Phase-II (History of disaster)

The disasters happen every year in this world. History of disaster gives the information about what type of disaster happens and how many people die and loss their life in that time. This chart shows the information about a disaster that happened more in china when compared to Bangladesh.

Graph.1: Represent about the disaster information

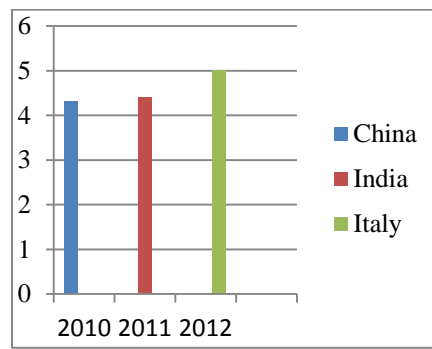


Fig. 1 Graph

2.3. Images representation



Fig.2: Tsunami in Italy



Fig.3: Earthquake in India

2.4. Phase-III (Management techniques)

Disaster management involves many management team that includes the cross and Red Crescent. They have coordinate manner in handling the risk [2-27]. All nations have the debacle administration administrations to give the administration Ministry of Home undertakings in India has set up an administration. National Disaster Management Authority (NUMDA) to response to man-made and natural disasters.

1. Human source development
2. Disaster Management team

3. DISASTER MANAGEMENT

1. Response
2. Recovery
3. Reduce the risk of disaster

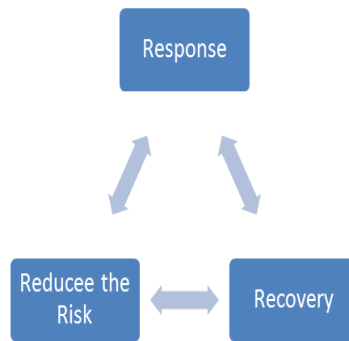


Fig.4: Steps for Management

The Management methods are Administrative management, Human Resource management, Financial management, Supply chain management.

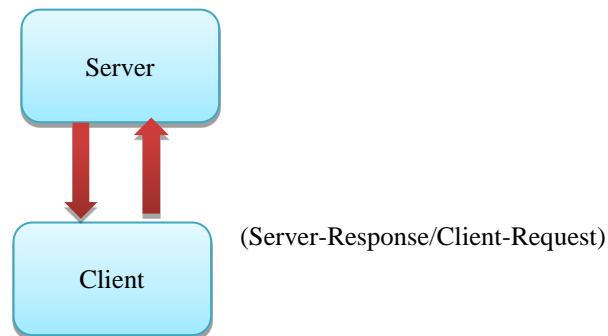


Fig. 5: Client Server Communication

3.1. MySQL (Database)

Higher level programming language is used to develop in this application. The Front end(C#) and Back end (MySQL). In this paper database engine is based on SQL structure, it handling all information include safety tips, history of Disaster and Management techniques stored in database. Database providing client/server communication are Client-Request and Server-Response [28-37].

4. CONCLUSION

This paper shows a point by point portrayal about the debacle attention to the general population and to spare themselves from the threats previously influencing them. This app is unique app which explains about the dangers and also about saving their life from the disasters. This application may also feature with interactive videos and simple step-by-step advice including customized warning. In this app more interaction manner to develop for the user satisfaction.

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