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Disaster Relief Connect System

Dr.J.Jeyaboopathiraja[1], Sudharsan C[2]

[1]Assistant Professor, PG & Research Department of Computer Science, Sri Ramakrishna College of Arts & Science, Coimbatore, India

[2]UG Student, PG & Research Department of Computer Science, Sri Ramakrishna College of Arts & Science, Coimbatore, India

ABSTRACT: Rescue Disaster the web project consists of a login page where the registered user can login and then do search for the people who are enrolled in the database with respect to the state, district and city once they get their required results they may logout. The scope of the project is to address a person or people when they are in need of help. This project helps to contact people who are willing to help if there is a need at the right time. The donator can create the account and whenever they are having wastage food and dress they can login and give request to the officials. And the officials also maintain the needy people details too. Needy people can also directly register. After the officials view the donator request and give the alert message like time to come and collect the food and dress. And the officials collect food and dresses from donator through their nearby availability. After receiving the food and dress from the donator, if the donator needs any detail about the needy people with helping thought they can give request to the officials and collect the needy people details

KEYWORDS: Disaster, Machine Learning, web based application, user interface

I. INTRODUCTION

The objective of the "Disaster Relief Connect" paper is to provide a platform that facilitates timely assistance to individuals in need during disasters. By integrating a user-friendly login system, registered users can efficiently search for and connect with people enrolled in the database based on specific criteria such as state, district, and city. This system not only enables users to find assistance quickly but also allows them to contribute by providing donations of food, clothing, and other essentials. Donators can easily create accounts and submit requests for donation pickups, which are then managed by officials responsible for coordinating aid efforts. Needy individuals are also able to register directly, ensuring that their requirements are accurately recorded and addressed. Upon receiving donation requests, officials coordinate pickup times and locations, ensuring a smooth process for both donors and recipients. Additionally, donators have the option to request information about the recipients of their donations, fostering a sense of connection and community involvement. By leveraging ASP.Net and SQL Server technologies, this project aims to streamline disaster relief efforts and promote volunteer contributions, including shelter provision, thereby enhancing overall disaster response capabilities.

Disaster Relief Connect aims to facilitate assistance during disasters by providing a platform for registered users to offer and receive help efficiently. It features a login page where registered users can access the system and search for individuals in need based on their location, such as state, district, and city. This system allows for the management of both donors and recipients. Donors can create accounts to offer surplus food and clothing, which they can then request to donate through the platform. Officials oversee these requests and coordinate the collection of donations from donors. Needy individuals can also directly register for assistance. Once officials approve a donation request, they alert the donor to arrange for collection.

II. RELATED WORKS

Prediction of Floods and Natural Disasters – Floods and other natural disasters can be predicted by weather data examination utilizing models. This requires gathering data like the encompassing street condition and the rainfall of the area that yea. In existing system if anyone have extra food and dress because of any function or in their home it will be become waste because instantly there is no way to share with anyone if they are having lots of food and dress. Even if they want to give that extra food and dress to any needy people or poor people they don't have time or don't have an idea about it.So that we have create an application for sponsor that extra food and dress to poor people or nearby needy people. In case of disaster, needy people cannot get help at right time

(2019) et.al proposed Interactive Data Exploration of Distributed Raw Files: A Systematic Mapping Study. While exploring enormous measures of data without a reasonable objective, giving an interactive encounter turns out to

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be truly troublesome, since this conditional examination ordinarily overcomes any early choice on data structures or ordering procedures. This is likewise evident in the physics area, explicitly in high-energy physics, where the enormous volume of data produced by the finders are typically investigated through C++ code utilizing cluster processing, which presents an impressive inertness. An interactive instrument, when incorporated into the current data the board systems. Here, they mean the present status of-the-art of interactive data investigation, targeting fulfilling three necessities: admittance to crude data records, put away in a disseminated climate, and with a sensibly low inactivity. This study observes the rules for systematic mapping studies, which is appropriate for social occasion and ordering accessible studies. They sum up the results subsequent to grouping the 242 papers that passed them consideration measures. Practically every one of solutions found this study cover a subset of the necessities, with just one partially fulfilling the three. The solutions for data investigation flourish.

III. METHODOLOGY

The proposed system, "Disaster Relief Connect," aims to streamline the process of providing assistance to individuals in need during disasters. Building upon the existing login page functionality, registered users will have the capability to search for assistance recipients based on their location parameters, including state, district, and city. The primary objective of the system remains to facilitate timely aid delivery by connecting those requiring assistance with willing donors. Donors will be empowered to create accounts within the system, enabling them to efficiently submit requests for the donation of surplus food and clothing items. Officials will continue to play a pivotal role in overseeing these donation requests and maintaining an updated database of needy individuals. Additionally, the system will offer a direct registration option for needy individuals seeking assistance.

Upon submission of a donation request, officials will promptly review and approve it, providing donors with an alert message specifying the collection time for the donated items. Donations will be efficiently collected from donors based on their proximity to officials' availability, ensuring a streamlined and effective process. Furthermore, donors will have the opportunity to request detailed information about the recipients they are assisting. This process will involve a seamless interaction with officials to obtain relevant details about the individuals in need, thereby fostering transparency and trust in the donation process.

The proposed system will be developed utilizing ASP.Net and SQL Server technologies, ensuring a robust and scalable platform capable of meeting the evolving needs of disaster relief efforts. Additionally, volunteers will be encouraged to contribute shelter assistance, further enhancing the system's capability to provide comprehensive support to individuals affected by disasters. Through these enhancements, the proposed system aims to optimize the efficiency and effectiveness of disaster relief operations, ultimately ensuring timely assistance reaches those most in need.

IV. RESULTS AND DISCUSSION

The system is made of the combination of modules which work with collaboration with each other and make it beneficial to accomplish the main aim of the system. In this project consist of the different types of module. If active, the register module offers visitors of your site the option to self-register to become a full member of your Gallery 2.After entering their preferred username, email address and password, they are either added directly to the registered users group of G2 or they are listed as pending users awaiting confirmation. Official will requested selected volunteers. so in volunteer module requested option should be there after collected from donor and volunteer will sent " collected " option button to close the official request. When disaster happened, official send alert Message to volunteer within 30kms of distance who are registered user volunteer. while signup module for registration mention that volunteer who having specific skills like swimming, and use google map to update current location while registering volunteer, shelter volunteer, donor , needy sign up.

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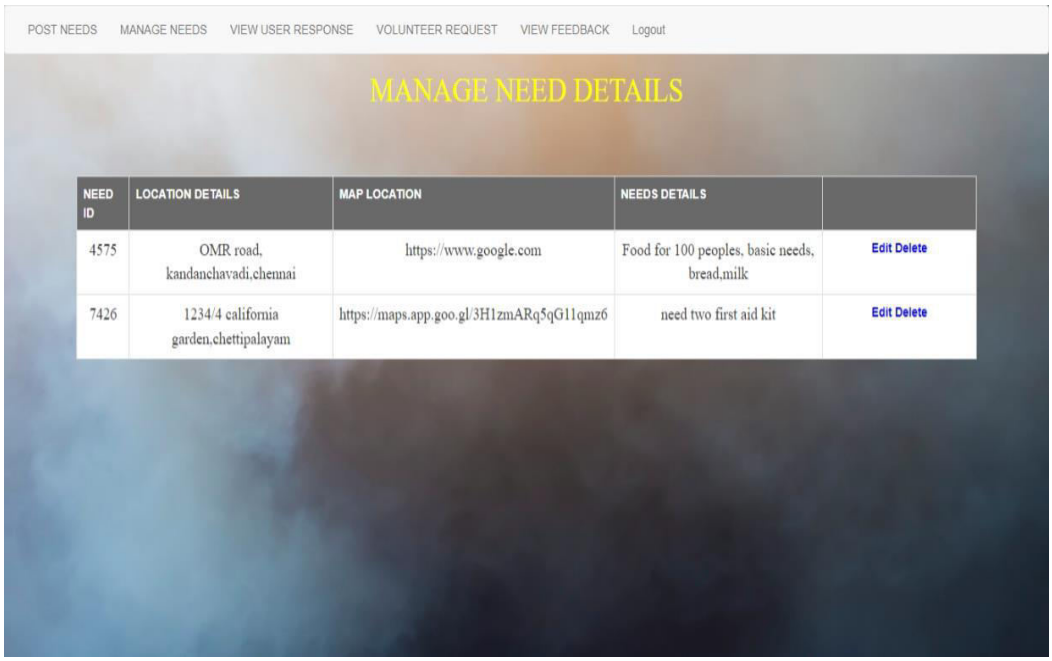

Fig-1 Admin Page

Fig-2 Response Page

V. CONCLUSION

In times of disaster, the ability to swiftly connect resources with those in need is crucial. "Disaster Relief Connect" serves as a centralized platform where donors, officials, volunteers, and needy individuals can come together seamlessly. By leveraging technology, the project streamlines the entire process of donation and assistance coordination. This streamlined approach not only saves time but also ensures that support reaches those who need it most in a timely and effective manner. One of the key strengths of "Disaster Relief Connect" lies in its ability to facilitate targeted assistance. Through advanced search functionalities based on location parameters such as state, district, and city, users can pinpoint where help is needed most urgently. This targeted approach enhances the efficiency of relief efforts by directing resources to areas that require immediate attention, thereby maximizing the impact of each

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donation and volunteer effort. Furthermore, the platform's alert system plays a vital role in ensuring smooth communication between donors and officials. Once a donation request is approved, donors receive timely alerts indicating when and where they can deliver their contributions. This proactive communication minimizes delays and ensures a seamless donation collection process, ultimately benefiting both donors and recipients. Overall, "Disaster Relief Connect" is not just a technological solution but a humanitarian initiative that aims to bridge the gap between generosity and necessity during challenging times. By fostering collaboration and leveraging digital tools effectively, the project stands as a beacon of hope, providing crucial support to communities in distress and helping rebuild lives in the aftermath of disasters.

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