Feed India - Design of On-line Portal for Food Donation

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Abstract : In India, food wastage is a common issue. The streets, garbage bins and landfills have huge amount of left-over food to prove it. Marriages, canteens, restaurants, social and family get together and functions and social gatherings throw out so much food. Wastage of food is not only a sign of hunger or pollution, but also of many economic and social problems. The increasingly high standard of living has resulted in the wastage of food, clothes, etc. because of quick changes in habits and lifestyle. Instead of wasting left-over stuff and clothes we can use them by donating it to various organizations such as orphanages, old age homes, etc. The product is a website FEED INDIA which aims to establish a link between restaurants and the charity homes/needy households to enable excess food donation.

Index Terms - **Food Donation, Wastage of Food, Online Portal, Hunger, Food Management**

I. INTRODUCTION

Food donation website is internet-based application that provides a platform for donating leftover food to all needy people/organizations. Many people, institutes wish to donate things to needy organizations. Also, many organizations wish to ask for various things required by them such as clothes, food grains, utensils, etc. But there is no medium available through which they can satisfy their requirements. Thereby, this website has been developed through which people can donate food items and all the above things as per their capacity and the application also allows organizations (NGO) to collect the donated items.

Our website comprises of effective utilization of left-over food items or other stuff which can be use by needy people. We will integrate private individuals, hospitals, education foundations, eateries and so on which can help individuals from halfway house home, seniority home and society. Everybody who wants to give/donate left over stuff, clothes, stationary, money can enroll in this website. NGO will send their vehicles to collect the food and distribute it to people. Consequently, individuals will be going to help individuals and serve for betterment and advancement of society. As we have seen that there are few NGO who are already working on this but their focus is on specific thing like food donation, cloth donation, stationary donation, money donation, etc. So, the purpose of our project FEED INDIA is to outline a site which contains all this donation's categories in just a single platform. NGO which will acknowledge our users can appreciate their efforts of donations by providing them certifications. Along this line, that our organization will not make any illicit utilization of their donated stuff.

II. LITERATURE SURVEY

The Paper 'Smartphone Based Waste Food Supply Chain for Aurangabad City Using GIS Location Based and Google Web Services' [1], published in 2016. They have proposed a model of mobile application which can be used by Food donor to donate the leftover food to NGO. Donors enter basic information like latitude and long quantity of waste food and type of waste along with value and contact number. NGO will pick up the remaining food and distribute it to hungry people. NGO will maintain track record of every donor and their location which will help NGO to Direct reach to the donor place and collect the food.

The paper 'Beyond food sharing: Supporting food waste reduction With ICTs' [2], published in 2016, guaranteeing food security is key in improving the quality of life of citizens at all levels of society. The recent economic crisis has increased the number of people living in conditions of food poverty, especially in developed regions. In spite of a developing attention to the significance of lessening waste and overseeing nourishment overflow, the job of ICTs right now still hazy and once in a while archived. This paper depicts the utilization of ICT instruments to recoup nourishment surplus at various phases of the production network and furthermore portrays the path forward for a coordinated arrangement of ICT apparatuses to decrease squander from makers to family.

The research paper "Food donations using a forecasting-simulation model' [3], published in 2016, centered a procedure to compute funds for NGO. These associations are focused on easing hunger far and wide and rely for the most part upon the generosity of contributors. The amount and recurrence of funds they get differs significantly after some time which exhibits a test in their battle to end hunger.. A simulation model is developed to determine the expected quantity of food donations received per month in a multi warehouse distribution network. The simulation model is based on a state-space model for exponential smoothing. A numerical study is performed using data

from a non-profit hunger relief organization. The results show that good estimation accuracies can be achieved with this approach. Many NGO can use this model for determining the amount of food donations they can get.

The paper titled "Food Donation Portal" [4], which was published, in 2017 summaries in brief the evolution of food donation activities and offers a medium that connects donors with NGOs. They have not used the Real world Location of Donor. That means the system does not allow the organization or charity to find the nearest donor available in the area and they have to manually find the donors.

The paper 'Food wastage reduction through donation' [5], published in 2018, a new internet-based application that provides a platform for donating old stuff and leftover food to all needy people/organizations. They have described how their proposed solution will help the needy people .The disadvantage of this project is that there is no dashboard available that is, at the end of the month the system don't get all the records that how much is donated or received by the receiver.

III. PROPOSED SYSTEM

The overall workflow of the website is depicted in figure 1. This work has been available on https://www.feedindia.ml/.
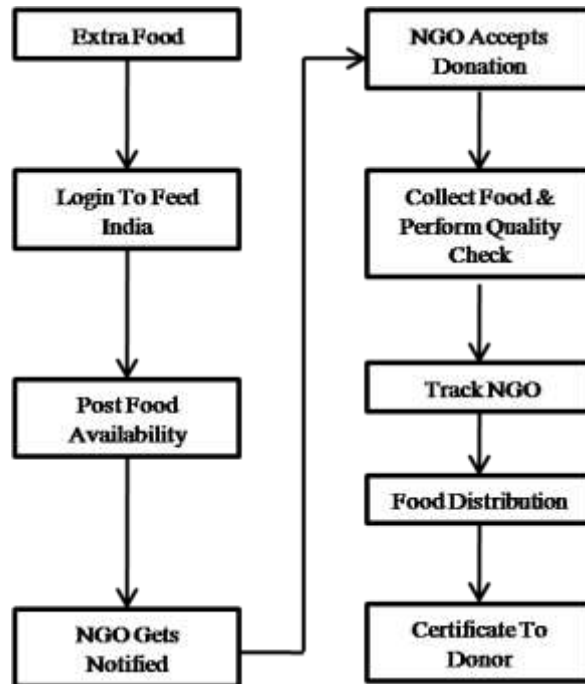

Figure 1 Overall Architecture

The website feed India is web platform for donating leftover food to the needy and hungry people. In countries like India, food wastage is a common problem. Marriages, canteens, restaurants, social and family get-togethers and functions throw out so much food. Instead of wasting left-over food and clothes the system can use it by donating them to various organizations such as orphanages and old age homes. This application is web based, developed using HTML, CSS, BOOSTRAP, PHP language framework we have used PHP-MYSQL database and requires internet connection it will provide a platform for donors and NGO after they successfully register into the system. Both donors and NGO have to be registered and authenticated before they can continue using the system for donation purpose. Donor through his login will post the extra food he have along with the quantity of people it can serve and his real world location on the Feed India portal.

All the NGOs in that area will get notified about the food donation request .if NGO accepts the donation request donor will get an e-Mail or SMS about the acceptance of the food and Details of the NGO and the person who will come to collect the food. Donor can track location of the NGO's person who is coming to collect the food.NGO will reach the Donors location collect the food perform quality check if the food is okay then it will distribute to hungry people.NGO will give a certificate of appreciation for his nobel work of food donation. The website can also be used for donation of stationary, clothes.

IV. CONCLUSION

Hundreds of thousands of tons of foods are either lost or wasted while millions of people suffer from malnutrition. A plausible initiative is the food donation portal in which large retail chains and potentially other organizations can donate food. This food is collected and delivered by NGO in need. Food donation portal will help thousands of people that suffer from starvation and also consume food that are wasted with no reason. As consequence, research and action are needed to improve the efficiency of Food Donation Portal.

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