

Food and cloth Donation System

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Abstract

Food wastage is one of the major issues that need to draw the attention of society as this issue requires proper planning and steps to manage its consequences. Waste food can be managed based upon its quality. If the food is safe enough to consume then it can be donated to the NGOs which would further be donated to various hunger zones. If the food is not safe to consume then it may be given to the agriculturist who can use it to prepare compost. The android application will bridge the gap between these stakeholders and will provide a platform to communicate on time. The request-response mechanism allows the hotels and restaurants to send request messages to the NGOs which would respond to their request and collect the waste accumulated in the hotels. The sharp increase in the amount of wastage in terms of food, clothes, books, etc. makes the need for charity in terms of donation. This paper presents 'Helping Hands', a new internet-based system that provides a platform for donating old stuff and leftover food to all needy people/organizations. It provides information about the motivation to come up with such a system, there by describing the existing donation system and how the proposed product works for the betterment of society. The product is shown to be an effective means of donating things to organizations, etc. over the internet. It shows the potential for avoiding the wastage of food, clothes, books and other stuff.

Keywords: online donation, research, waste management, inventory management

I. Introduction

In highly populated countries like India, food wastage is a disturbing issue. The streets, garbage bins and landfills have ample proof to prove it. Marriages, canteens, restaurants, social and family get-togethers and functions expel out so much food. Food wastage is not only an indication of hunger or pollution, but also of many economic problems. The high standard of living has resulted in the wastage of food, clothes, etc. because of quick changes in habits and lifestyle. Instead of wasting these things we can put them in use by donating them to various organizations such as orphanages, old age homes, etc. The system is an internet-based web application that basically aims at charity through donations.

Many people wish to donate things to needy organizations. Also, many organizations wish to ask for various things required by them such as clothes, food grains, books, utensils, etc., but there is no source available through which they can satisfy their requirements. Thereby, a web application has been developed through which people can donate items as per their capacity and the web application also allows organizations to put up their requests, i.e. items required by them, if any. The majority of the population today uses web system with active internet connection, which is the basic requirement for this product to function properly. The prevention of food waste can be done by contributing to save resources to reduce environmental impact during all stages of the marketing system. People waste edible food as an accomplishment suggestive of our population. Food throwing is a disquieting issue everywhere. The street and trash bins depot have more food as a clue to prove it. The functions and party halls of hotels eject out so much food. The basic idea is to manage the Waste Food accumulated by various Restaurants. The food wastage may be a result of residual or maybe because of the extra food prepared by the units. The basic motive of the application is to connect the hotel with a third party such as NGOs that can accept the extra prepared food as a Donation and provide food to the needy. The other alternative could be the

process of providing the residual food to the agriculturists who can use it for compost purposes that would reduce the methane emission and would tackle food wastage.

II. Literature Survey

Food security refers to the availability of food and one's access to it. The World Health Organization defines three facets of food security: food availability, food access, and food use. India faces a threefold challenge to achieve food security; to match the rapidly changing demand for food from a larger and more affluent population to its supply; do so in ways that are environmentally and socially sustainable, and ensure that the poorest people are no longer hungry. This challenge requires changes in the way food is produced, stored, processed, distributed, and accessed. An increase in production will have an important part to play, but they will be considered as never before by the finite resources provided by Earth's land, oceans, and atmosphere. Prevention of postharvest loss is increasingly cited as a means to effectively contribute to available food supplies. Annakshetra's vision is to position India as a zero food wastage economy by mobilizing social change and efficiently redeploying food resources. Annakshetra makes use of the 3R model to minimize food waste at the post-consumer level: 'Helping Hands' is a web application which provides a platform for donors and seekers to donate and receive food after they successfully login into the system. The system consists of 3 main components: donor, seeker and admin. The donor performs operations like registration/login, and adds up items to donate and view the donation request. The receiver performs operations like requesting the items, viewing requested items and claiming

III. Existing System

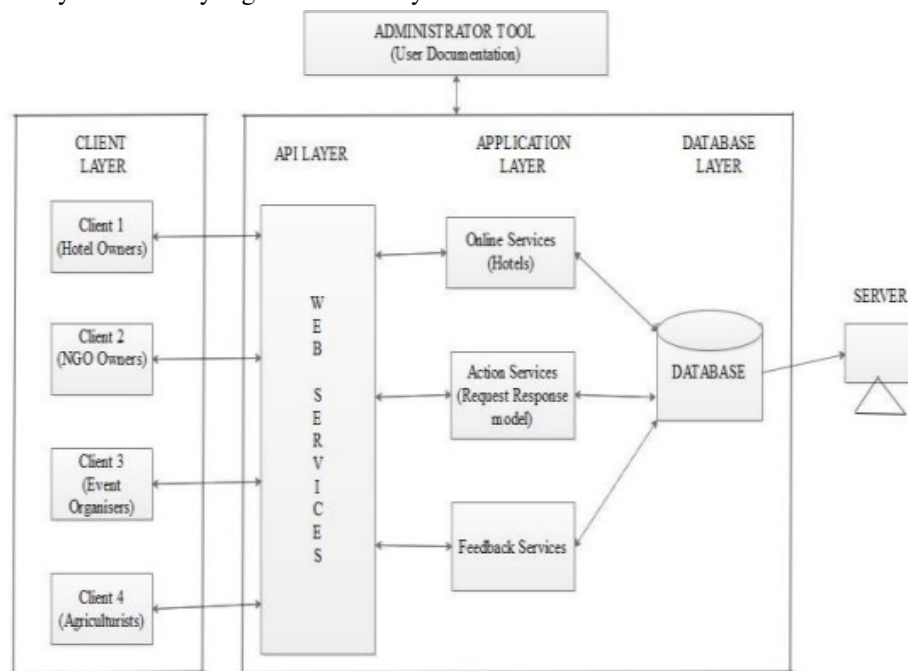
Presently people who wish to donate items need to personally visit the organizations and donate food or other items. Otherwise, they have to search for some websites to donate surplus food. In general, the large manufacturers, wholesalers, and organized community provide food items to food banks or waste tons of food daily. They have to search for some organization that needs food. This process involves a lot of time to contact the organization to check the requirement. If they do not need the food, then the person has to contact another organization. This makes the donor tired and exhausted.

IV. IV .Problem Definition

The proposed system is developed using PHP and MYSQL. This is the web application. In this system we are reducing food wastage using that web application. This project is food redistribution is an enormously successful social innovation that tackles food waste and food poverty. The admin collect foods from donator through their nearby agent then provide to nearest orphanages or poor people. The proposed system is web-based, requires internet connection and will provide a platform for donors and seekers after they successfully register into the system. At present, we are aiming to avoid the major wastage that usually happens in India and that is foodstuffs. We are looking and expecting to update and refine the same which will add up to efficiency and utility of the system including food. The Donor performs operations like Registration and Login into the System. He can also put up items for donation and view all donation requests (items required by organizations). The Admin and Donor both can view the Receiver's location. The Admin can also monitor and update the database. The Admin and Receiver both can view the Donor's location. The Receiver can also perform operations like requesting for items, viewing requested items and claiming donations. The main components of the application is the donor and the volunteer of an NGO. The donor can register/login into the system and enter the available food details in the food donation entries. The donor can enter the food type, cooking and expiry date of food, location (where the food is available) and the availability details of the donor. Once the donor fills in all the details and submits the form the volunteer will receive notifications regarding the food details. The volunteer can register/login into the system and check the availability of food and food types updated by the donor. If the volunteer wants to claim the food donation he/she accepts the food donation and tries to contact the donor

V . Design Concept

The proposed web application is web-based, requires internet connection and will provide a platform for donors and seekers. The user interface of this system are going to be simple and user-friendly, and therefore the targeted system is web based. The donation recipient can be either from orphanages, old homes, shelters, etc. The users need to register into the application and can generate donation or food request. In the same way, seekers can view the list of items put up by donors and if required, can claim the donated item by contacting the donor. The admin collect foods from donator through their nearby agent then provide to nearest orphanages or poor people. The proposed system is web-based, requires internet connection and will provide a platform for donors and seekers after they successfully register into the system.



Block Dia.

● Resources & Consumables Required

Hardware Requirement for Development of Project: (minimum)

1. Processor : Intel core i3
2. Ram: 4 GB (min)
3. Hard disk : 128GB

Software Requirement for Development of Project: (minimum)

1. Operating System: Window 7.
2. Front End: Bootstrap4,css,Html
3. Back End: MySQL, PHP
4. Code editor: Visual Studio, Sublime text

● Advantages

1. It helps poor people
2. Reducing food waste saves water.
3. Many needy people will get cure.
4. It is user-friendly

- **Disadvantages**

1. Require Internet Connection

VI .Future Scope:

Future work entails the potential release of the Food donation system on the Android marketplace after a few enhancements based on the reception of the prototype. We anticipate that our work in this paper would be quite useful to app developers, NGO employees, HCI and IoT researchers, as well as professionals from AI in Smart Cities. The whole scope of our project is that food should reach every person in India. No one should go hungry. And we develop a "Zero hunger" system that is very helpful for the social group and those who are doing social activities.

VII. Conclusion

The proposed web application shall reduce food wastage and also fulfill other requirements like food of needy organizations. As mentioned above in the description there is a lot of food wastage that occurs daily at restaurants and cafes. Instead of throwing away the same as trash it can be used to feed the homeless. Also, since the pickup is arranged for by the enterprise, the restaurants/cafes need not worry about it. Benefiters will be both the restaurants/cafés/marriages (reducing the carbon footprint and wastage), and the needy.

Thus it is better understood how the proposed system is better than the existing system. The excess food produced in functions gatherings are often easily donated. Visualization of the impact of donation has a positive impact on the users. An effort focused on feeding the hunger and minimizing food Wastage at the same time.

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