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Food Waste Management System

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Abstract: A drastic increase can be seen in food waste. As per data given by Food and Agriculture Organization (http://www.fao.org/food-loss-and-food-waste/flw- data), 1/3rd of food produced for human consumption is wasted globally, which accounts for almost 1.3 billion tons per year. On the other hand, also as per WHO 20% of the population face extreme food shortages. Hence there is a need to come up with a solution that can avoid food waste & can help feed the needy.

This android-based Food Waste Management system can assist in collectingthe leftover food from hotels & restaurants to distribute among those in need. NGOs that are helping poor communities to battle against starvation & malnutrition can raise a request for food supply from restaurants through this application. Once the request is accepted, the NGOs can collect the food from the restaurants for its distribution. In this way this android-based food waste management system will help restaurants to reduce food waste and will help in feeding the poor and needy

In this system, we have tried to reduce restaurant food wastage by giving waste food to NGOs. NGOs will raise a request, in case of any leftover food restaurants have. This request is sent to the restaurant manager of that particular restaurant. The NGO Manager then approves the request and assigns it to one of the NGO employees for takeaway and forwards the request to the restaurant. The leftover food at the restaurant can be given to NGOs at the end of the day. The admin can track the history of restaurants and NGOs for the leftover food.

I. INTRODUCTION

The main goal of our application is to build and create a simple but powerful framework that can be used without fear of data breaches or technicalities by anyone.

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The objective of this project was to create a mobile application to assist users in managing their food inventory.

II. LITERATURE SURVEY

SN	Author	Year	Description
1	Parfitt et al.	2010	Food waste within food supply chains: quantification and potential for change to 2050
2	Martinez et al.	2014	Food loss in a hungry world, a problem?
3	Dung Thi et al.	2015	An overview of food waste management in developing countries: Current status and future perspective
4	Cicatiello et et.	2016	The value of food waste: An Exploratory study on retailing
5	Liljestrand	2017	Logistics solution for food waste

III. PROBLEM STATEMENT

The Food Donation Portal Proposed Program is an internet-based application that provides all poor people/organizations with a forum for donating leftover food. The product has seen to be a powerful way of donating items over the internet to organizations, etc. Food pollution is a troubling phenomenon in densely developed nations like India.

This android-based Food Waste Management system can assist in collecting the leftover food from hotels & restaurants to distribute among those in need.NGO's Helping in it to provide the food to actual person who need it.

IV. PROPOSED SYSTEM

Recycle by Compositing: Food producers will solve 100% of their waste matter issues by simply organizing a good composting strategy. And doing therefore not only eliminates waste, it saves your cash as a result of you don't have to be mandatory to "outsource" your compost production.

Use Waste Food To provide Products From biofuels to liquid fertilizer, there are several helpful merchandises that may be factory-made from bound styles of waste foods, and infrequently "leftovers" of one company might be helpful in another business for the food scrap.

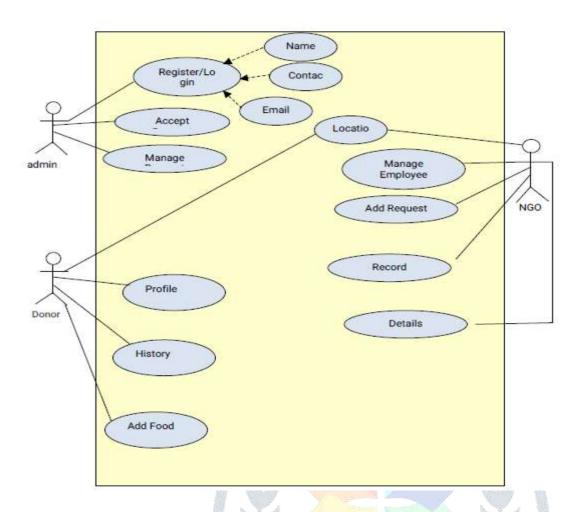
V. GOALS & OBJECTIVES

The goal is to design a system which can provide the waste food the needy people.

VI.SCOPE

- As technology is expanding widely and everything is becoming digital and smart so there is need of online revolution in reducing waste food management.
- Helping restaurants and NGO's to manage waste food.
- Nowadays most of the people use smart phones, so project brings lots of scope to as it is android application in the mode of reaching to people.

VII.SYSTEM DESIGN



VIII.CONCLUSION

Finally, in reducing waste food management system, we have a system where the first one will put a request to take the waste food or we can say extra food they left within the function they were enjoying. He fills up the details of the food. The manager will be assigned to pick the order. He takes the vehicle to the place of function and loads the vehicle and takes it to the area where the need for the food is much on the base of severity. He leaves the food there. And completes the system procedure. Admin manages the managers and analyzes the system.

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