

Review in Food Wastage Reduction Through Donation Application

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Abstract: The projects “FOOD WASTAGE REDUCTION THROUGH DONATION APP”, there are restaurants that waste tons of excess food every day. This will reduce the food wastage through donation. This project helps to maintain the details of the restaurants. The project contains admin and user modules. In this project admin adds the details such as name of the restaurant, location of the restaurant, food details such as type of food and amount of food serves for people. The user can view all these details in the user login to know about the food and restaurant details and interact with them. In user login, the user has come to know about the restaurant details. The user can view the restaurant name, restaurant location where user can get the food and type of food available and amount of people that food serves and Google map images.

Keywords: Food Donator, Food Wastage Problems, Collecting Foods.

I. INTRODUCTION

In exceptionally populated nations like India, food wastage is an upsetting issue. The lanes, trash containers and landfills have abundant verification to demonstrate it. Relationships, bottles, cafés, social and family get together and capacities oust out so much food. Food wastage isn't just a sign of craving or contamination, yet in addition of numerous financial issues. The elevated expectation of living has brought about the wastage of food, garments, and so forth in light of snappy changes in propensities and way of life. The item is a web application which intends to set up a connection among eateries and the cause homes/destitute family units to empower overabundance food gift. Food gift gateway is web-based application that gives a stage to giving extra food to every single destitute individuals/associations. The entry is demonstrated to be a compelling method for giving food to associations, and so on over the web. In profoundly populated nations like India, food wastage is a major issue. The trash containers, boulevards and landfills have inexhaustible proof to show it. Holders, connections, bistros, social and family gatherings and capacities remove out so much food.

Food wastage isn't just a sign of contamination or appetite, yet additionally of numerous monetary issues. The exclusive expectation of living has brought about the wastage of food. On account of fast changes in propensities and way of life as opposed to squandering food, the framework can place them being used by giving them to different International Journal of Recent Trends in Engineering and Research (IJRTER) Volume 04, Issue 03; March-2018 [ISSN: 2455-1457] @IJRTER-2018, All Rights Reserved 682 associations, for example, mature age homes, halfway houses, and so on. The item is a web-based site application that fundamentally focuses on noble cause through gifts. Numerous individuals, foundations wish to give things to poor associations. Additionally, numerous associations wish to request different things required by them, for example, garments, food grains, utensils, and so on. Be that as it may, there is no source accessible through which they can fulfil their necessities. In this way, an electronic application has been created through which individuals can give food things according to their ability and the application likewise permits associations to set up their solicitations, that is things required by them, if any.

II. PROBLEM DEFINITION

In existing system, user needs to gather the food related information through friends or through website. It increases the human work and user could not easily identify the home details and order the food from that home. It is tedious process for the user to become aware of the home details and collect the food from that home. Though the home details provided by the admin may vary by its location of home. User could not find the nearby location of home and food they required on time.

III. EXITING SYSTEM

As of now, individuals give stuff physically by visiting every association number of times. So as to diminish the issues of food wastage, a few sites like www.rescuingleftovercuisine.org [2] and www.annakshetra.org [3] have taken endeavors to assist individuals with giving their overflow food to covers through their official site, wherein individuals can give food, give reserves and furthermore volunteer for different exercises. 'Offer my dabba' is another activity to get left over food in dabbas to hungry road youngsters, utilizing only a small sticker and the broad dabbawala organize. The activity is a joint exertion between 'Cheerful Life Welfare Society' and 'The Dabbawala Foundation' [4].

Consistently 200 thousand youngsters on Mumbai's avenues are ravenous and consistently 2 of them kick the bucket of appetite. The Mumbai dabbawala's convey 120 tons of food ordinarily out of which 16 tons is left uneaten [7].

Arham Anna Daan (A task of Arham Yuva Group) - Their volunteers gather in steel holder's overabundance extra food from weddings, gatherings and sanctuaries. Dispersion is to ghetto occupants and development laborers. Nimit Sheth 098218 75656, Ritesh Vaid 098676 22002. Nourishment for All Campaign This battle which works in relationship with Mumbai Dabbawala Association (MDA) focusses on extras from weddings. The wedding food providers call the MDA helpline, after which a dabbawala visits the setting, gathers the extras and disperses the equivalent among destitute and ghetto tenants. Rishikesh Kadam - 075067 44566, 098672 21210 [8]

- Restaurant and food donation details may not reach users residing at different locations.
- It leads to wastage of food in large amount.
- Report may not be clear and neat
- Time consumption may be high to generate the reports or cross reference
- Chances for data redundancy or data omitted.

IV. PROPOSED SYSTEM

The proposed application is android-based, developed on Android Studio version 4.0.3 using java and xml requires internet connection and will provide a platform for donors and seekers after they successfully register into the system. If a user wishes to donate something, he/she can send a message in application. This message will be shown as notification in donations tab to other users. This message will be stored in backend in the database. Once a notification is sent, the orphanages who wish to claim the donations can reply to the donor and contact him/her. The user interface of this system will be simple and user-friendly, and the targeted system is android. 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 application including books, stationary, clothes, etc.

However, the application is limited Android Smartphones with Gingerbread OS and higher versions (Android Jellybean 4.1 is recommended). Also the application will be beneficial if donors and seekers are located near each other. [9], [10], [11]. The use case diagram shown above describes 3 actors – Donor, Receiver and Admin. 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 Receiver can also perform operations like requesting for items, viewing requested items and claiming donations.

- It helps the user to easily identify the restaurant and vice versa.
- It reduces food wastage by donating it to needy people.
- Efficient service
- Reduce data redundancy
- Updating is very easy

V. SYSTEM ARCHITECTURE

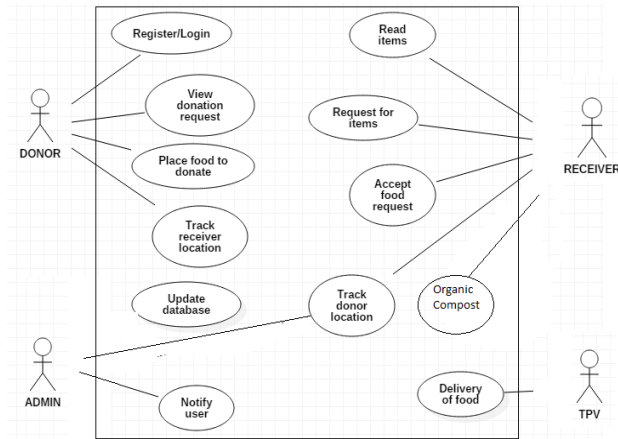


Fig : A1

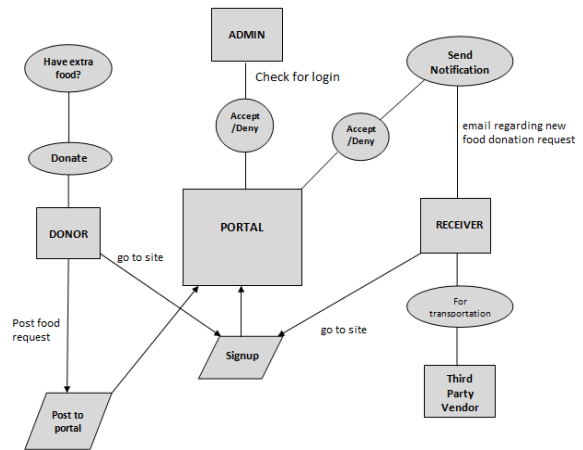


Fig :A 2

All Food Donation Requests:

RequestId	Description	RequestStatus	RequestDT
107	10Kg of dinner left. Food very good condition	Request Completed	10/25/2016 10:48:03 PM
108	Annunal event food left	FD Request Accepted By TPV	10/25/2016 10:55:52 PM
109	Annunal event food left	Request Completed	10/25/2016 10:56:41 PM
111	20kg Lunch rem	FD Request Submitted	10/26/2016 1:02:51 PM
116	dinner20kgnew	FD Request Accepted By FR	10/26/2016 2:56:13 PM

Fig : A3

VI. IMPLEMENTATION

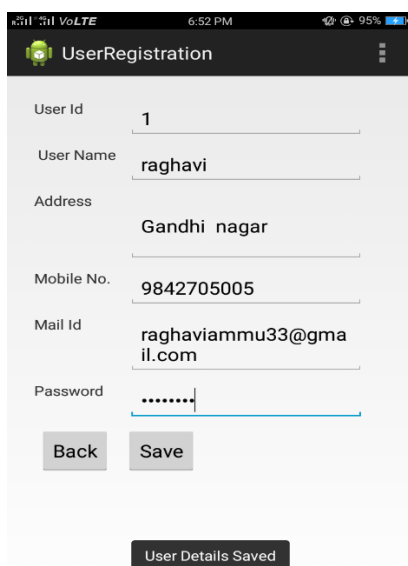


Fig :1

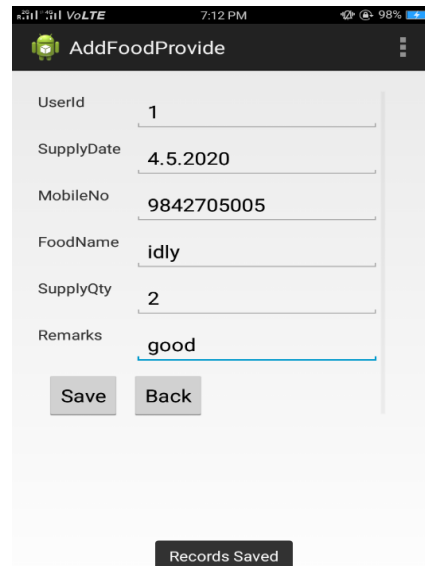


Fig :2

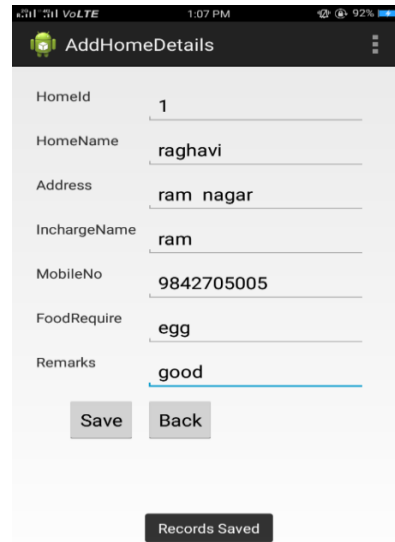


Fig: 3

First screen shows user that is donating needs to fill in all the details about item user wish to Login. Second screen is about all the details of food displayed after accepting the request for item by the user. Third screen is for donor/receiver to inform the user

VII. CONCLUSION

The proposed application shall reduce food wastage and also fulfil other requirements like clothes, books, utensils, etc. of needy organizations. The application eliminates the manual communication difficulties currently faced by the students. It is developed in a user-friendly manner since the application is developed using Android SDK. The application is very fast and any transaction can be process across the network. Through the application, students are intimated with other extracurricular details immediately. This helps the needy people to know the food availability and collect the necessary food from their nearby location. This application reduces the human work and makes them comfortable to collect the food.

REFERENCES

1. <http://www.android.com>
2. <https://eclipse.org>
3. <http://www.tutorialpoints.com>
4. https://en.wikipedia.org/wiki/Android_%28operating_system%29
5. <https://en.wikipedia.org/wiki/SQLite>