Waste Food Management and Donation Application

Sriram Jyoshna[1], Gourabathina Lalitha Siva Priya[2*], Yarrasani Anusha[3], Varadaraju Bhavya[4], Mappeti Somanadh[5], Budugu Bhanu Prakash[6]

[1]Associate Professor, Department of Computer Science and Engineering, Siddartha Institute of Science and Technology, Puttur, India
[2,3,4,5,6]Student, Department of Computer Science and Engineering, Siddartha Institute of Science and Technology, Puttur, India

***Abstract*: An extreme rise in food waste has been seen now a days. As the data given by FAO (food and agriculture organization) 1/3rd amount of food has been wasted global wide i.e., 1.3 billion tons of food has been wasted every year. In order to reduce the food wastage, we came up with a solution and this solution can manage the food in useful ways .so, we can reduce food wastage with the help of an android application. If anyone has huge amount of waste food, they can raise the request or can post a message. And that message will give the information about available food, location information and also, they will also provide your registered number to the nearest food donators. As we know that this is an android application, we can easily collect the waste food from hotels and restaurants and we can distribute that food to the needy people. So, by implementing this application we can reduce the food wastage and we can help the needy people by providing the food.**

***Keywords*: Android application, collection of foods, excess amount of food, food donators, food donation, wastage of food.**

1. Introduction

Currently, we are facing food shortage problem /food wastage problem. As we know more amount of food has been wasted daily. In olden days if the food has been remained then we are simply throwing in to dust bin. So that the food has been wasted and not useful to anyone. In order to solve this problem, we came up with a solution with the help of an android application. Initially the people should install this application from play store after that they should register in to this application. In this application there is presence of hotel and restaurants details along with orphanages details and old age home details. If any people have left over food, they can raise a request that they have waste food. After that if any people what food they can raise a message so that the food will be send to their location. In this application there is a presence of GPS system so that we can easily track their locations and deliver food to the people who requires the food.

2. Literature Survey

Literature survey is important for developing a software process.

A food wastage reduction mobile application: Wastage of food has been the crucial problem in our daily life. In this application they provide users to register, login, view items, add items and then log out. Any user can view all the images of food donators by different people.
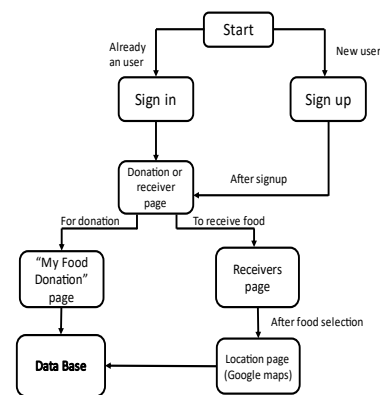

Fig. 1. System architecture

3. Modules

A. Admin Module

1. *Register:* User can register using personal details.
2. *Login:* User can login in his personal account using id and password.

B. Restaurant Module

List restaurant: This will List all the restaurants available near the locations. It can add/register new restaurants when they are available.

C. NGO's Module

View All NGOs. Add/Register new NGO's.

The activities such as register details and sign-up sign in details can be viewed by donor. Both the admin and receiver can view all the details of food donations.

4. Conclusion

So, by expanding an android application such that it contains donors and organizers. So, this application can be easily donate the food who require so that we can reduce the food wastage problem and social impacts.

*Corresponding author: lalithasiva272000@gmail.com

References

[1] Bartone, C. 2000. Strategies for Improving Municipal Solid Waste Management: Lessons from a Decade of World Bank Lending. Bangkok, Thailand: International Workshop on Creating Sustainable Cities through Urban Environmental Management, Asian Institute of Technology, 6-8 March 2000.

[2] J. A. Rukmi Chanika Sandroni and W. K. Athula C. Gnana Pala / Procedia Food Science 6 (2016) 133 135. World Travel and Tourism Council Economic Impact Report 2017.

[3] Ferris, D. A. (1995). A comparison of methodologies used for waste characterization in foodservice operations, Dissertation. Kansas State University, Manhattan, KS.

[4] H. S. 2012, Hotel Room Supply, Capital Investment and Manpower Requirement by 2021.

[5] Kirk, D. 1995. Environmental management in hotels. International Journal of Contemporary Hospitality Management, old. 7(6), pp. 38.

[6] Food and A. Organization, "Global food losses and food waste - extent, causes and prevention," 2011.

[7] G. Farr-Wharton, J. H. Choi, and M. Foth, Techni colouring the fridge: reducing food waste through uses of colour-coding and cameras," in 13th International Conference on Mobile and Ubiquitous Multimedia (MUM). Melbourne, Australia: Association for Computing Machinery (ACM), 2014.

[8] Z. Hu and J. Heidemann, "Towards geolocation of millions of IP addresses," in Proceedings of the ACM Internet Measurement Conference. Boston, MA, USA: ACM, 2012.

[9] H. Jeff, "The rise of crowdsourcing." in Wired magazine 14.6 (2006): 1-4.

[10] M. Swan, "Emerging patient-driven health care models: an examination of health social networks, consumer personalized medicine and quantified self-tracking," International journal of environmental research and public health, 2009.

[11] J. Parfitt, M. Barthel, and S. Macnaughton, "Food waste within food supply chains: quantification and potential for change to 2050," Philosophical Transactions of the Royal Society of London B.