

An Android and Web based Food Donation Application to Reduce Food Waste

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Abstract: *World is battling serious food shortage and other economic crisis. And with the latest introduction of Covid19 Pandemic the situation has worsen. An important goal in our world today is to eliminate food waste by reutilizing available food sources within local communities: leftover food items in restaurants, stores and food distribution centers that may be approaching expiration; and any perishable items not used in entirety within their desired period [1]. Edible food thrown out as food waste could be used for the nourishment of people in need. NGOs/Communities work towards providing food and other help to the needy. If we can connect these two, in such a way that these orphanages can get the "food to be wasted" without hassle, and the hotels/restaurants/party-halls find these food seekers without any extra effort then it will serve a greater cause and will be a big service to humanity [2]. This paper focuses on creating a mobile/web application that provides a platform for Individuals/Restaurants to donate food and for NGOs to seek food resources in their local area and distribute them to needy, thereby tackling two major issues, i.e., hunger and food waste.*

Keywords: Food wastage, Food Donation, NGO, Doner, Receiver

REFERENCES

- [1]. John Amiel R. Morilla, Phillip Carl Bagsic, Mark Kenneth Dela Cruz, Carl Daniel A. Patio, Emeliza R. Yabut, "Foodernity: A Mobile and Web Application for Food Sharing", 2021 1st International Conference in Information and Computing Research (iCORE), pp.90-95, 2021.
- [2]. Dr. B. Kishore Babu, "A Study on Food Wastage Utilization in Vijayawada," International Journal for Innovative engineering and management Research, vol. 10, Spl.Issue 6, May 2021.
- [3]. A. R. Davies, Urban Food Sharing: Rules, Tools and Networks, Chicago: Bristol University Press, Policy Press, 2019.
- [4]. Food waste management by The CSR Journal, <https://thecsrjournal.in/food-wastage-india>.
- [5]. Food waste management by Cheyenne Connor <https://www.slideshare.net/CheyenneConnors/food-waste-research-paper>.
- [6]. Food waste matters - A systematic review of household food waste practices and their policy implications, Journal of Cleaner Production, Volume 182, 2018, Pages 978-991, 1 May 2018.
- [7]. R. Shinta Oktaviana, D. A. Febriani, I. Yoshana and L. R. Payanta, "FoodX, a System to Reduce Food Waste," 2020 3rd International Conference on Computer and Informatics Engineering (IC2IE), 2020, pp. 361-365, doi: 10.1109/IC2IE50715.2020.9274576.
- [8]. Aaron Ciaght, Adolfo Villafiorita, "Beyond food sharing: Supporting food wastage reduction using ICT" IEEE 2014.



- [9]. Y. Qiu and C. Liu, "An In-kind Charitable Donation System App Design Practice Driven By Social Innovation Design Concept," 2019 6th International Conference on Information Science and Control Engineering (ICISCE), 2019, pp. 141-145, doi: 10.1109/ICISCE48695.2019.00038.
- [10]. C. Varghese, D. Pathak and A. S. Varde, "SeVa: A Food Donation App for Smart Living," 2021 IEEE 11th Annual Computing and Communication Workshop and Conference (CCWC), 2021, pp. 0408-0413, doi: 10.1109/CCWC51732.2021.9375945.