

# Zero hunger Link-Bridging Food Waste and Hunger Gaps-An Integrated Approach

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**Abstract:** *The Food and Agriculture Organisation (FAO) of the UN estimates that 1.3 billion tonnes, or one-third, of the food produced for human consumption is lost or wasted, making food waste a major global issue. About 40% of food produced in India is wasted, and homes, restaurants, hotels, weddings, and other gathering places are major contributors to this problem. In India, a large number of nonprofit organisations are actively trying to collect excess food and provide it to people in need in order to alleviate hunger, malnutrition, and food waste. The objective of this proposed project is to manage a prepared food supply chain through the development of an innovative application, with the goal of addressing urban excess food waste and hunger-related fatalities. This programme will make it easier to connect surplus and deficient food resources within a community network by using an ERP paradigm. Administrators will be able to monitor donor and recipient information, assess hotels according to their contributions and input, and efficiently manage logistics thanks to the technology. Trusts and beneficiaries will be able to register, use a matching algorithm to find local food resources, choose and request food, communicate directly with donors, and offer insightful feedback. Donors will have the ability to sign up, enter the information of the food that is provided, reply to requests, and get in touch with recipients and trusts. Additionally, staff members and delivery persons will be equipped with the necessary tools to register, oversee pickups and deliveries, and send out timely alerts when they are finished. In the end, this all-encompassing strategy seeks to reduce food waste and lessen hunger in communities by establishing an effective and transparent method for the redistribution of excess food resources*

**Keywords:** Community Distribution, Food Insecurity, Surplus Food, Food Shortages, Mobile Application

## REFERENCES

- [1] Hitesh Raut, Swapnil Rajput, Danjhan Nalavade, "Smartphone based food supply chain for Aurangabad city using GIS location based and google webservices" <https://ieeexplore.ieee.org/document/7582874/metric>.
- [2] Masrom, Suraya, Abdullah Sani Abdul Rahman, F Azahar and Nasiroh Omar. "Food for You (F4U) Mobile Charity Application." (2018)
- [3] H. Hajjdiab, A. Anzer, H. A. Tabaza and W. Ahmed, "A Food Wastage Reduction Mobile Application," 2018 6th International Conference on Future Internet of Things and Cloud Workshops (FiCloudW), Barcelona, Spain, 2018, pp. 152-157, doi: 10.1109/W-FiCloud.2018.00030.
- [4] JManikandan<sup>1</sup>, Mr N Kumar<sup>2</sup>," Food waste reduction through donation" International Research Journal of Engineering and Technology (IRJET)Mar2020.
- [5] Vidhi Panchal<sup>1</sup>, Kajal Kuchekar<sup>2</sup>, Snehal Tambe<sup>3</sup>, Availability of food for NGO through Mobile Application:Food For All International Research Journal of Engineering and Technology (IRJET) Mar 2020.
- [6] 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), Yogyakarta, Indonesia, 2020, pp. 361-365, doi: 10.1109/IC2IE50715.2020.9274576.
- [7] Mrigank Mathur, Ishan Srivastava, Vaishnavi Rai,"Aahar-Food donation App" International Journal of Scientific Research & Engineering Trends May-June2021
- [8] Vanashree Mhatre, Shweta Chavan, Snehal Gamare, Prof. Varsha Salunkhe -"Waste Food Management and Donation App" -IRJET-V9I3240 (March 2022)

[9] R. Uma , S. Ranjith , I. Kaja Mohaidheen , S. R. Dharaneesh, 2022, Web –based Application for Food Waste Management, INTERNATIONAL JOURNAL OF ENGINEERING RESEARCH & TECHNOLOGY (IJERT) Volume 11, Issue 05 (May 2022)

[10] Bhardwaj, Sonali and Kumar, Utkarsh and Kumar, Dr. Yogesh, Food Waste Management Android App (July 14, 2022). Proceedings of the Advancement in Electronics & Communication Engineering 2022.