MealConnect— A Food Waste Management System

Sumit Kumar[1], Vintee Vats[2], Renu Narwal[3]

Students, Department of Computer Science and Engineering[1,2]

Associate Professor, Department of Computer Science and Engineering[3]

Dronacharya College of Engineering, Gurugram, India

sumitkumardce03@gmail.com, vatsvinti5@gmail.com, renu@ggnindia.dronacharya.info

Abstract: *Food waste is a growing global concern, impacting both environmental sustainability and food security. Digital solutions such as web-based platforms can play a crucial role in addressing this issue by facilitating food donation, reducing wastage, and promoting efficient resource distribution. This research paper presents an analysis of the MealConnect project, a web-based food waste management system developed using HTML, CSS, JavaScript, and a Node.js backend with Express.js. The study explores its features, functionality, and potential impact while comparing it with existing digital food management solutions. The challenges faced in developing such a platform, including user engagement, real-time inventory tracking, and donor-recipient coordination, are also discussed. The findings suggest that web- based food waste management platforms can significantly improve food redistribution efficiency, reduce waste, and contribute to sustainable development goals*

Keywords: component, formatting, style, styling, insert