

Reducing Food Waste an Online Food Donation System

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ABSTRACT

This research aims to design and develop an online food donation system with the intention to reduce food waste. This system will assist society to donate food effectively and efficiently. In addition, individuals who need food, can visit this system, and send details and requests for the food donation. This research also aims to evaluate the web-based food donation system through Functionality Test and User Acceptance Test. The waterfall model was utilized as the methodology of this study. The waterfall model consists of five phases including requirement, design, implementation, verification, and documentation. The development of this system was done by using PHP programming languages and MySQL. The functionality testing was conducted to ensure that all these system's functions are working properly. The User Acceptance Testing has been conducted to measure this system in term of ease of use, usefulness, attitude, and intention to use. Among the participants that involved in this testing are the community and volunteers from non-governmental organization (NGO) from Tanah Merah, Kelantan. Results from the User Acceptance Test shows that most participants agree that the system is eased to use, useful for them. The participants also show a positive attitude towards the system and most of them has intention to use this system in the future. In conclusion, this research has achieved its objective which are to design, develop and evaluate a food donation system to reduce food waste.

Keywords: Food donation, Waterfall model, User Acceptance Test