

## **Web-Based Application of the Unused Medicine Donation System (Medonate)**

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### **ABSTRACT**

Improper disposal of unused medicines that are highly practiced in the community is clearly inappropriate action since there are needy people desperate to prescribe medications due to their personal health conditions. This relates to the waste of worth that the government of Malaysia needs to face every year because people are still unaware of the Return Your Medicine Program that was established by the Ministry of Health. In order to overcome the problems, the donation of unused medicines is the appropriate solution. Accordingly, this research goal was to identify the criteria of a web-based application for unused medicine donation system, construct a web-based application for unused medicine donation using Adobe Dreamweaver, and evaluate the proposed model based on the functionality and usability testing. Medonate is used by the stakeholders which are pharmaceuticals, hospitals, NGOs, and individuals or donors in monitoring and controlling the management of unused medicine. HTTP, PHP, and MySQL programming languages have been used along with System Development Life Cycle (SDLC) Waterfall Model to develop the system. This project evaluation was done by using usability and functionality testing focusing on three groups which are potential donors, NGOs, and medical staff. As a result, users agree that this system is understandable and appropriate for society because of the clarity and easefulness of Medonate. It is hoped that Medonate is useful and brings benefits to increase awareness of the public in terms of improper disposal, wastage of pharmaceuticals, and limited access of people from rural places to get medicines.

**Keywords:** Web-based application, Unused medicines, Donation, Return, Medonate