

Development of an integrated vaccine system (IVS) for vaccination healthcare database

Mohd Azrul Hisham Mohd Adib^{1,*}, Muhammad Shahminan Lukman¹, Nur Hazreen Mohd Hasni²

¹Medical Engineering & Health Intervention Team (MedEHIT), Human Engineering Group, Faculty of Mechanical Engineering, Universiti Malaysia Pahang, 26600 Pekan, Pahang, Malaysia

²Family Health Unit, Pahang State Health Department, Jalan IM 4, 25582 Bandar Indera Mahkota, Kuantan, Pahang, Malaysia

*Corresponding e-mail: azrul@ump.edu.my

ABSTRACT

Hospital Information System or also recognized as a Healthcare Information System (HIS) is an integrated computer system installed throughout the hospital to expand the hospital clinical and administrative function. Nevertheless, the conservative guide method of recording vaccination information is less organized and problematic to be recovered back. IVS is an integrated information technology system that efforts to address the weaknesses in the conventional method by organizing storage for vaccination information and also mobile application to remind the parents of the next vaccination date. IVS is immobile in the initial development thru positive progress.

KEYWORDS

Vaccine; integrated system; database; data storage; computer system

ACKNOWLEDGMENT

A big thank you dedicated to University Malaysia Pahang (UMP) for providing us with a good environment and facilities in order to complete this research. By this opportunity, we would like to thank Dr. Siti Suhaila Binti Suradi, MD. from Klinik Kesihatan Kurnia and Dr. Fatimah Binti A. Majid from Pejabat Kesihatan Daerah Kuantan, for sharing valuable information in accordance to our research interest. We would face many difficulties without their assistance.