ABSTRACT

DESIGNING A WEB-BASED POSYANDU INFORMATION SYSTEM USING EXTREME PROGRAMMING METHOD IN CANDINATA VILLAGE

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The development of information technology, especially in information systems, increases the need to obtain accurate, concise, and up-to-date information. This encourages people and agencies to utilize information systems to meet these information needs. One of the important fields in the application of information systems is health, especially in posyandu. Posyandu Melati is a health service unit tasked with providing toddler health services located in Candinata village. Currently, the process of recording toddler data involves several complex and time-consuming stages, thus slowing down the process of recording data and disseminating information. Therefore, the purpose of this research is to build and develop a web-based posyandu information system that can assist cadres in processing toddler data and disseminating information to cadres at Posyandu Melati. This research designs and develops web-based posyandu information systems with Extreme Programming Method. This method was chosen because it is able to build strong communication between clients and developers, and focus on different parts in a short time. Posyandu information system developed with Extreme Programming method has been successful, helping cadres in recording toddler data, reporting data, and disseminating information to the community. Black Box Testing shows that the system features have been validated as needed. Measurement of user experience using the HEART framework shows the Correlation Coefficient in the range of 0.81 < r < 1.00, including very high criteria.

Keywords: Information System, Extreme Programming, HEART Framework, Posyandu