ABSTRACT

Effective and efficient library management is an important element in supporting the learning process at school. This research aims to develop a web-based library management information system using the Iconix Process method. The case study was conducted at SMP Negeri 13 Magelang. Iconix Process was chosen because of its systematic approach and focus on user needs analysis and system design. The developed system includes main features such as book data management, borrowing and returning, and recording borrowing history. The development process begins with analyzing user needs through interviews and observations. Next, an analysis model, scenario diagram, and interface design were created. Implementation is done using a simple and easy-to-use design to ensure accessibility and ease of use. After the development of the application shows that the system developed can provide convenience in library management, more structured and borrowing can be done in a system that was previously done manually for borrowing and recording then the application of the Iconix Process method in developing this system proves effective. With a structured approach and focusing on user needs, Iconix Process is able to produce a system that meets the expectations and needs of library managers at SMP Negeri 13 Magelang. Through clear stages, such as needs analysis, design, and implementation, this method ensures that every function of the system is developed with ease of use in mind.

Keywords : Library Information System, Web, Iconix Process, SMP Negeri 13 Magelang, Library Digitalization