ABSTRACT

Data management in the SMK N 1 Cangkringan library is still done manually, with approximately 4,100 book records recorded. So that it is prone to recording errors in terms of the circulation of borrowing and returning books. Therefore, an application is needed that can facilitate users in managing library book data. The solution provided to overcome this problem is the implementation of a library information system for the accuracy of loan and return management transaction data. With a web-based library information system, it will be practical to provide loan and return services, and data collection of transaction data in the library becomes easier and narrows data collection errors so that borrowing, returns, and transaction reports, as well as the status of books, are more precise and accurate. The methods used in designing this information system are problem identification, observation, needs analysis, design, system implementation, system testing, and the final project report. The system that has been built has 34 test scenarios. The results obtained from these tests show that the system that has been built can accommodate borrowing transactions and library returns by 100%. The implementation of the system that has been built can accommodate and manage loan transaction data, returns, library data, and member data, and can provide precise and accurate reports.

Keywords: *system, library, loan, return.*