

ABSTRACT

The library is one of the facilities that must be owned by each school or college in Indonesia. Because students can easily find the information or knowledge through the library. With the development of technology makes humans think to be able to work more effectively and efficiently. One of them is to make conventional systems into modern computerized systems. Therefore, the library will be more effective and efficient in searching and ordering books if the website facilities are connected to the internet. In making this research, the researcher took a case study at the library of SMKN 3 Bandung. This library cannot be separated from the students in seeking knowledge at school. The facilities provided by SMKN 3 Bandung are very useful for all students if they can make the library more meaningful than before. The process of circulation library that run in SMKN 3 Bandung are still manual, including data collection of books, processing of borrowing and returning books, data collection of visitors and members, data collection on the condition of books that are not used or still good, reporting the number of books borrowed in a period of time. Then in registering visitors and library members officers still use paper to record the number of visitors and members of all processes are still using manual systems. In this study, a web-based information system designed by using the PHP MySQL programming language. In making this system, the researcher used the Software Development Life Cycle (SDLC) method with the Waterfall model in which the method there are 4 stages; needs analysis, design, coding, and testing. The results of this research is testing the library information by using *black box* testing method. It shows that this system is free from syntax errors, and the function produces the expected output.

Keywords: Library, SMKN 3 Bandung, Information System, Web, PHP MySQL.