

ABSTRACT

SMP N 1 Pedan is one of standard national junior high school and one of the best in Klaten. It is all because of adequate learning facilities. Start from the best teachers, school equipment that is complete and facilities of library. However, management like input, borrowing, and returning books are still manually and checking of available books by students in the library is still not efficient because it must come directly to the library, but the book is not necessarily available. On the other hand, students ID card and collection of library books SMP Negeri 1 Pedan already integrated with barcode labels.

To solve these problems, at the final project will be created an application digital library with barcode systems. Which can handle the processing of data collection, borrowing and returning books that using students ID card which are already integrated with barcode labels. Furthermore, students can also check availability and history of borrowing books using website application. This application is also completed to print data of borrower, students, and books.

With this application, management of library related to data collection, borrowing and returning books can be done faster and better. So that students can obtaining information easier with available books using website application. Because the system is integrated with barcode labels that can help in controlling both in terms of borrowing and returning books. Thus, the website application can be useful for schools, officials, member of library and SMP Negeri 1 Pedan Klaten will be better school in future.

Keywords : *Website*, *Application*, *Barcode*, SMP N 1 Pedan.