

## ABSTRACT

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*Data processing application and map Implementation at the library have a function to process book collection, newspaper, and magazine data which cloud help the librarian took know how many collection that the library has. These management of rental transaction by the library member, and to print the book rental receipt, this these member has to take it from the librarian. The returning process of library book is done by the librarian, in which the librarian will search the rental id from the member and the returning form will be filled automatically at the time when the rental id is present, and from these form, the librarian is able to know how many book is being rented, actual returning date, and the amount of fine that has to be paid. And this application, there are 2 (two) main function which is SMS Broadcast, and implementation of the map. This SMS Broadcast function is made to make it easier for the librarian in building communication to remind the members so they can return the rented books immediately. And sketch implementation is created to make it easier for library visitor in searching the intended books half of the book they are looking for. Testing on this application using black box testing which after doing this testing all the functionality is appropriate, so it can be concluded this application is very helpful librarians in library data collection processing, lending transaction management books, payment slip management, cost slip management, Make a rental transaction.*

*Keywords: Library, Broadcast SMS, Black Box Testing*