

# Implementation Of Inlislite Application Based On Management Information Systems At SMKN 1 Praya Tengah

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## **Abstract.**

*This study aims to describe what impacts occur when implementing the Inlislite application system based on a management information system in the library of SMKN 1 Praya Tengah. This study uses a qualitative research design and is analyzed by making rich and thick descriptions. Research at the data collection stage uses a grounded theory approach. Based on the results of the research, it can be concluded that Inlislite has a positive impact, because it can improve library services at SMKN 1 Praya Tengah because librarians process data on borrowing and returning books faster. In addition, there were technical problems in implementing inlislite at SMKN 1 Praya Tengah which resulted in the existing system running slowly. The recommendations for this research are: 1) To separate schools from Inlislite, and add library facilities in the form of the latest generation of computers; 2) Provide regular Inlislite training and guidance to Librarians, so that Librarians are more adept at operating Inlislite.*

**Keywords:** *Aplication, Inlislite and Library.*

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## **I. INTRODUCTION**

The development of the times is something dynamic, meaning that it always changes from time to time. People's lives are constantly changing from those who do not understand technology to those who understand technology. Now we have entered digital life, namely life marked by various scientific advances that use technology a lot in carrying out various work activities. The characteristics of human life in technology can be seen from how often we use mobile phones or laptops to complete a job. The accelerated development of development in all dimensions of life has encouraged the Indonesian people to continue to improve the quality of Human Resources (HR). Quality human resources can only be achieved with a quality education process as well. Education is the most important element in the intellectual life of the nation. No nation or country can progress without first advancing the world education sector, therefore education is very important. Judging from that, the times will affect the world of education and human resources, where it will always increase, so there is a need for new innovations in the world of education. The world of education itself cannot be separated from the behavior of today's society. Behavior where people now interact more often with social media or in virtual or virtual form, so that there are lots of people who don't have friends in the community near their house, but in cyberspace there are lots of friends, or in other words the friends in question are no longer around near their house, but has penetrated all aspects of the region, both outside the region, outside the city and friends in other parts of the country.

Library management is the solution, where library management is a study of what and how the library can be managed. The right facts can be compiled into the right data, so that the right data has the opportunity to be processed into educational information, which can ultimately be used as a basis for making considerations or decision recommendations in developing education (Rokhmat, 2016). According to Rokhmat (2016) "library infrastructure 5 facilities are a very important need and must be met. Facilities and infrastructure facilities are an attraction for visitors and also the library officials themselves.", therefore the new facilities and infrastructure will increase the comfort of students and librarians, so this will have an impact on improving librarian services for stakeholders who visit the library and for visitors this will be interesting because the transfer of services from conventional to digital makes people want to know increased because of the existence of new facilities and infrastructure. Management information system is an information system where transaction processing is very useful for the benefit of the organization, besides

that many also provide information and processing support for management functions in decision making (Jimmy, 2008:14). This is in line with the presentation (Sudiro, 2011: 6) which states that a management information system is a system that transforms data in a frontline system, as a transaction processing system, into information that is useful for managers in making decisions.

So it can be concluded that a management information system is a system information that is useful for the benefit of the organization in decision making. Management information systems basically focus on how to convey information evenly and quickly to the destination. Indeed, information systems that are usually used in conventional libraries sometimes do not reach the goals achieved, for example when book information should be on the bookshelf but is not searched for by library visitors because it turns out that the place for the book is placed on another shelf because the visitor wants to read a book. Therefore, the book is placed on another shelf, making it difficult for someone or a librarian who wants to find a book. The use of applications in today's life is very important and can be said to be used to make it easier for someone to get the desired goal. When someone wants to find a motorcycle taxi driver somewhere, but the distance between someone who wants to use a motorcycle taxi and the motorcycle taxi base is very far. On the one hand, people who want to use this motorcycle taxi are in a hurry because they want to take their parents who are seriously ill. What did that person do, did he look for the motorcycle taxi driver by walking around looking for the nearest motorcycle taxi base and letting his parents get sick at the place where he started looking for a motorcycle taxi or taking him on a walk together to find the nearest motorcycle taxi base? This problem is very important to solve, so Gojek was founded to solve this problem. Arif Budiman in the journal "Inlislite Application Development to Support Library Activities at ABC University" published in 2016 stated that the Inlislite application can be used as a means to manage bibliographic data effectively and efficiently.

By using the inlislite application, libraries can manage bibliographical data in a more structured and organized manner, making it easier for library users to search for bibliographical information. Putri (2017) also conducted research on library management using the Inlislite application. The results of the research show that the Inlislite application can assist librarians in managing book data more efficiently and accurately. The Inlislite application makes it easy for librarians to manage book data automatically, thereby reducing errors in book data collection. Thus, the book data collection process in the library can be done more efficiently and accurately. Wahyuni Fitriani (2019) also found that adding sample data via the Inlislite application could improve library performance. By using this application, the library can easily manage sample data and provide more effective services to visitors. In line with this, Dewi and Ratnasari (2017) also stated that a web-based library information system can make it easier for librarians to manage library data at SMK Negeri 1 Mojokerto. The research conducted by Asari (2020) is in line with research conducted by Araya (2020) with the title Designing Web-based Library Management System which states that a website-based library management system is proven to be able to improve library services efficiently. Andi Nurjanah in the journal "Optimization of Bibliographic Recording with the Inlislite Application at the GHI University Library" published in 2018 shows that the use of the inlislite application at the GHI University Library has provided optimization in the process of bibliographic recording. Edi Setiawan (2018) analyzed the effectiveness of adding sample data with the Inlislite application at the University B library.

The results of this analysis indicate that the use of the Inlislite application can increase the effectiveness of adding sample data in the library. Similar to the example above, when a student who has high motivation wants to read a book, the student looks for books in the library. When they arrive at the library, students who have high motivation, of course, go straight to the shelf where the theme of the book they want to find. But sometime later, the student did not get the book he wanted. As time went on the student began to get frustrated and his motivation to read decreased because the book he wanted didn't exist, so the student went to the librarian and asked where this book was, the librarian who still used the conventional system immediately helped the student look for a shelf with the theme the student wanted. But the librarian and the student had yet to find him. The librarian then concluded that if it wasn't here, then the book had been borrowed by someone. The student who heard this reluctantly left the library and did not read the book he wanted earlier. Whereas before the student looked for a book, the student had read it in the same library, but

the next day the book he was looking for was gone. Therefore, the focus of this research is the application of the management information system-based inlislite application in the library of SMKN 1 Praya Tengah.

## II. METHODS

This research study on the implementation of the Inlislite application based on management information systems in the library of SMKN 1 Praya Tengah uses a qualitative research design. The validity of the data collected in the field will be tested, then analyzed by making rich and thick descriptions (Rahman, 2011). Research at the data collecting stage will use a Grounded Theory approach. This approach is used to understand the relationship that occurs between the application of management information system-based inlislite applications and the library environment at SMKN 1 Praya Tengah. This is in accordance with the explanation of Ghony and Almanshur (2012) regarding research using the Grounded Theory approach which aims to find a basic theory resulting from empirical (field) data. The task of a researcher is to understand what is happening in the field. The information taken comes from informants.

The informant selection technique used in this study was purposive sampling, consisting of 1) Librarian 2) Deputy Head of Facilities and Infrastructure 3) Teachers 4) Students Librarians were chosen as data sources or informants because librarians have the most important role in running a web-based information system, as well as students and teachers were chosen on the basis that students and teachers are subjects who are directly affected by the policy. The type of data to be collected in this study consists of primary data and secondary data. The primary data that will be collected is the form of the application of a web-based management information system in the library of SMKN 1 Praya Tengah, and its impact on the teaching and learning process in the SMKN 1 Praya Tengah environment. While the secondary data collected in this study is the general condition of the research location, the availability of facilities and infrastructure to support the application of web-based information systems.

**Data Analysis Procedures** This research is a descriptive study, with more of a descriptive nature from the results of interviews and documentation studies. The data that has been obtained will be analyzed qualitatively and described in descriptive form. The data analysis technique used in this study is to use the steps as proposed by Burhan Bungin (2003:70), which are as follows:

1. **Data Collection.** Data collection is an integral part of data analysis activities. Data collection activities in this study are by using interviews and documentation studies;
2. **Data Reduction (Data Reduction).** Data reduction is defined as a selection process, focusing on simplifying and transforming raw data that emerges from written records in the field. Reduction was carried out since data collection began by making summaries, coding, tracing themes, making clusters, writing memos and so on with the intention of eliminating irrelevant data/information;
3. **Display Data** is a description of a set of structured information that provides the possibility of drawing conclusions and taking action. Presentation of qualitative data is presented in the form of narrative text. The presentation can also be in the form of matrices, diagrams, tables and charts;
4. **Conclusion (Conclusion Drawing and Verification).** Is the final activity of data analysis. Drawing conclusions in the form of interpretation activities, namely finding the meaning of the data that has been presented. Between displaying data and drawing conclusions there are existing data analysis activities. In this sense, qualitative data analysis is an ongoing, repetitive and continuous effort. The problem of data reduction, data presentation and drawing conclusions/verifications is a picture of success sequentially as a series of related analytical activities.

Furthermore, the data that has been analyzed, explained and interpreted in the form of words to describe facts in the field, meaning or to answer research questions which are then extracted only. Based on the information above, each stage in the process is carried out to obtain data validity by examining all existing data from various sources that have been obtained from the field and personal documents, official documents, pictures, photos and so on through the interview method supported by documentation studies.

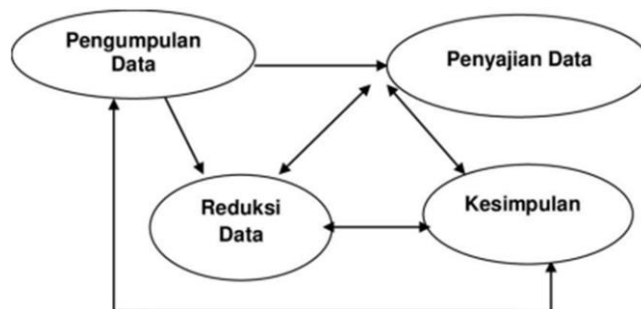


Fig 1. Interactive Data Analysis Model (Rachman, 2011)

### III. RESULT AND DISCUSSION

The researcher conducted random student interviews regarding the library at SMKN 1 Praya Tengah, as well as regarding the use of the Inlislite program. The questions that the researcher asked consisted of 10 types of questions that aimed to collect information with a grid such as how often did students visit the library, when did students visit the library, types of books borrowed by students, students' knowledge of the system used by the library, to the advantages and disadvantages Inlislite information system and inlislite information system advice. Based on this, it is hoped that the answers given will be expected to answer the objectives of this study. The questions are:

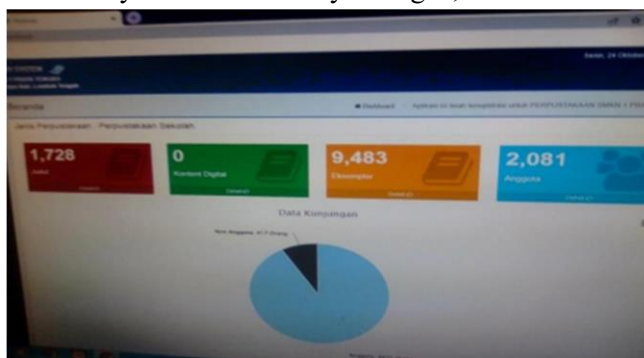
1. Have you ever visited the library?
2. In one week, how many times do you visit the library?
3. What is your purpose in visiting the library?
4. Is the collection of books in the library complete?
5. What is the flow or process of borrowing books from the library?
6. Is the book lending system in the library already using a digital system?
7. Have you ever heard of the Inlislite system?
8. Write down the advantages and disadvantages that you found in the library?
9. Are you having trouble using the Inlislite system?
10. Write your input about the existing library system.

From the first grid, namely how often students visit the library, the researcher makes questions, which are number one on student questions and also teachers, vice principals and librarians. From the questions, the researcher can see how often students visit the library. Furthermore, for the grid whenever students visit the library, the researcher makes question number two. For questions number three and four, the researcher used a grid of types of books borrowed by students. Next, the student's knowledge grid about the system used by the researcher's library made questions number five, six, seven, and eight. As for the last grid, namely looking at the advantages and disadvantages of the Inlislite information system and suggestions for the Inlislite information system, the researcher put it in questions 9 and 10.



Fig 2. Researchers conducted interviews with students

Researchers also asked the same questions to librarians, teachers, vice principals and heads of libraries as stakeholders. There is one similar answer among students, librarians and the head of the library, regarding the Inlislite application system, namely some students say that, "The computer often has errors or takes a long time to load, so it suddenly turns off when used", this was also stated by the library's IT staff who explained that the cause of frequent computer errors was due to computer specifications that needed to be updated, as well as problems with the library still joining the school. Furthermore, in a separate room the researcher asked the head of the library the same question. The head of the library explained the advantages of the Inlislite application which facilitates the administration system "...for the advantages there are many, it is very easy for us to input student data during the process of borrowing books, in managing the number of books, and book data is very good, even though the library is moved to another room, we are still Having the data, you don't need to check one book at a time, it's very convenient for you because it makes it easier to manage the library." (Head of Library at SMK N 1 Praya Tengah, 10 October 2022).



**Fig 3.** Collection of Books on Inlislite

Based on the results of the researcher's interviews with students, student visits to the library were stated to be busy, according to student answers which stated that they went to the library usually 3 to 4 times a week, for various purposes, such as borrowing books, reading subject matter, and returning books that were has been borrowed, as illustrated in the following figure.



**Fig 4.** Students visiting the Library

The librarian also mentioned that students visit the library every day. According to the librarian, another factor that causes the library to be crowded is because the library room is also used as a study room by teachers. "...Many sir, students like going to the Library because the room is cool, and also during the learning process, teachers often borrow the library room because it is comfortable and has air conditioning, students are happy." (Librarian, September 10, 2022). The Library's Book Collection is fairly complete, this can be seen from the many books that are neatly arranged on the bookshelves in the Library. The number and types of books contained in this library have also been validated by researchers in the Inlislite database system. As shown in Figure 3, the number of books owned by the Library of SMKN 1 Praya Tengah is 1,738 open types, with a total of 9,483 copies. Socialization of the use of Inlislite in managing books in the library has been carried out well, this can be seen from the students' answers when the researcher asked about the Inlislite digital system used by the library. Students mentioned that the system was quite helpful for students

in the process book borrowing. A librarian who also serves as the IT Section (Information Technology) said that Inlislite makes it easier for librarians and students, because students only need to show their Library membership cards, then the librarian will enter book and student data into the Inlislite database. As explained by the following Librarian: "...for the process of borrowing books, we usually ask for a library membership card and then we enter the data into the inlislite application, then we enter the serial number of the book so that student data and book titles enter our database." (Interview with Librarian, September 10, 2022).

Even though Inlislite has a positive impact and can facilitate library administration services, researchers still find weaknesses in this Inlislite program, it's proven that when researchers try to access Inlislite an error occurs, loading feels long, and sometimes the computer turns off. According to the IT Section, the constraints that researchers experienced were caused by computers that did not have the latest specifications, as well as problems with the library. "... this system is also very vulnerable to problems if the specs on the computer are inadequate, for example at this time our problem is that some data is lost due to insufficient computer specs, for that problem we have reported the problem to the facility and are waiting for the realization. the rest doesn't exist." (Library Information Technology Section, 19 September 2022). Furthermore, the Librarian of the Information Technology Section provided input to the school so that they could update the computers and separate the library and the school. "...the input is that the computer specs are increased so that there are no errors during the data input process, secondly if you can use it yourself, it means it's in the library, for now it's still joining the school, so if there's an error in the library data we check it at the school where it takes time, where if we are the ones who have our own when an error occurs we can immediately know and can immediately back up if there is a possibility that an error may occur." (Library Information Technology Section, 19 September 2022).

#### **IV. CONCLUSION AND RECOMMENDATION**

##### **Conclusion**

Based on the results of research on the application of Inlislite in improving library services at the Library of SMK Negeri 1 Praya Tengah, the following conclusions can be drawn:

1. The Inlislite application is a library management information system that can assist in managing book collections, simplify the process of borrowing and returning books, and increase the efficiency and productivity of library management.
2. SIM can assist in managing the collection of books in the library more efficiently and accurately. The use of SIM can also facilitate the process of borrowing and returning books, as well as increasing the speed of librarian performance in borrowing and returning books.
3. The Inlislite application can increase efficiency and productivity in library management. The Inlislite application can also simplify the process of processing library materials, borrowing and returning books, as well as book data collection in the library.

##### **Recomendation**

Based on the results of research on the application of Inlislite in improving library services at the Library of SMK Negeri 1 Praya Tengah in the discussion chapter, the researcher recommends:

1. It is recommended that Praya 1 Public High School be able to provide additional facilities to the library, in the form of a new generation of computers and an independent server that is separate from the school server.
2. It is recommended that librarians be given training or guidance in operating Inlislite

#### **V. ACKNOWLEDGMENTS**

We would like to express our sincere gratitude to PT. Blockchain Technology Corp for their generous support and assistance with our research project. PT. Blockchain Technology Corp provided funding that were critical to the success of our project. We are deeply grateful for their contributions, and we are deeply indebted to them for their support and encouragement. Without their assistance, our research would not have been possible.

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