

## Making System Information Library at Hidayah Vocational School

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**Abstract.** Library is one of facility important in schools that support the learning and development process knowledge students . However , the management library manually often gets in the way efficiency and effectiveness services . Research This aiming For design and implement System Information Library web -based at SMK Hidayah, in order to increase performance and quality service library . The system developed covering module borrowing and returning book , search collection , as well as making report automatic . The results of the implementation show that system This capable increase efficiency of administrative processes , speeding up search books , and make it easier management collection book . User , either student and manager library , providing bait come back positive related convenience and speed in access service library . Although Thus , the challenge related stability Network and needs training advanced for manager Still need be noticed . In overall , system This succeed increase quality service library at Hidayah Vocational School and can become solution For school others who face problem similar .

**Keywords :** System Information Library , Hidayah Vocational School, Loans Books , Returns Books , Web-based.

### Introduction

The library is one of the most important educational facilities in supporting the teaching and learning process. As a center for information resources, the library provides various types of books and teaching materials that can be used by students, teachers, and teaching staff. A well-managed library can improve the quality of learning by providing adequate resources that are easily accessible to all parties. Therefore, efficient and effective library management is very important to support academic activities in schools (Usholicchah et al., 2024) .

However, in many schools, including SMK Hidayah, library management is still done manually. The process of borrowing and returning books is done by recording using a ledger or manual sheet, which takes a long time and is prone to errors. For example, the process of recording borrowing and returning often requires repeated checks to ensure the availability of books, avoid duplication of records, and monitor books that are returned late. This not only affects efficiency but also the quality of services provided to library users, namely students, teachers, and staff (Alie et al., 2021) .

In addition, with a manual system, library managers have difficulty managing the increasing number of book collections. It is not uncommon for existing book collections to be unorganized, making searching for books difficult and time-consuming. Book lending statistics reports are often late and inaccurate, which ultimately hampers planning efforts for the procurement of new books, evaluation of collection use, and library maintenance (Indrahti et al., 2024) .

Along with the development of technology, many educational institutions have begun to switch to computer-based systems to manage libraries. Computer-based Library Information Systems offer a more effective solution to existing problems, by providing a faster, more organized, and more accurate way to record borrowing, returning, and managing book collections. This information system allows libraries to utilize technology to provide better services to their users (Maulana & Ikasari, 2023) .

The implementation of the Library Information System at SMK Hidayah aims to modernize and improve the efficiency of library management at the school. With this system, various processes that were previously carried out manually, such as recording book loans, returning books, and making statistical reports on loans, will be automated, so that they can be done faster and more accurately. In addition, this system also allows library managers to more easily monitor book collections, find out the status of loans, and minimize errors in recording and managing data.

## Research Methods

Development System Information The library at Hidayah Vocational School is being built with follow systematic and structured stages For produce efficient , effective and easy system used by all party , both administrators , students , and teachers. The methods used in development system This consists of from a number of stages , namely analysis needs , design system , development , implementation , testing , training users , up to maintenance and evaluation system . Here is explanation more carry on regarding each stage the .

Stage the first thing to do is analysis needs . At the stage this , information about conditions and problems that exist in the SMK Hidayah library are collected through a number of methods , including interviews with manager library , observation direct to operational library , as well as questionnaire to user library ( students , teachers, and staff ). From the results This data collection is analyzed various needs that must be met fulfilled by the system , such as need For take notes borrowing book , return book , search books , and making report borrowing in a way automatic .

After analysis need finished , stage next is design system . At the stage this , team developer to design the system that will developed , covering two aspects main : design interface user interface and design architecture system . After design finished , stage development started . Development process done with build system in accordance with design that has been approved .

Testing system done For ensure that system walk with good and fulfilling specifications that have been set . After training done , system can implemented in a way full . All transaction borrowing and returning book , management collection , and creation report will done use system information new library . Implementation system This will ensure that all activities in the library walk more efficient and effective .

## Results and Discussion

After through a systematic and structured development process , finally System Information The library at Hidayah Vocational School was successful applied and provide significant results in increase efficiency management library . Here is the results obtained from development and implementation system This :

### **Improvement Efficiency Recording Borrowing and Returning Book**

Previously , the recording borrowing and returning book done manually , which takes time and risk error . After system information applied , the process of borrowing and returning book can done in a way automatic through simple interface . Every transactions made direct recorded in the database, so that manager library can with easy track loan status book without difficulty .

### **Improvement Speed Search Book**

With system new information , search book can done with fast use feature search based on keywords . Students and teachers can look for book based on title , author , or category book . Search feature This reduce time required For find desired book and make it easier user For to obtain information related collection books in the library .

### **Improvement Accessibility Information Library**

System information This allow more access easy and fast to information library , good for administrators , students , and teachers. Users can access system This When just through computer or other connected devices to the internet. This is increase convenience and accessibility information library without depending on opening hours library .

### **Convenience in Making Report**

One of feature important from system This is ability For produce report borrowing , returning and collection status book in a way automatically . The reports generated are very useful. For manager library in do evaluation , planning procurement book new , and in manage stock existing books . Report This also makes it easier party school For monitor use collection library .

### **Improvement Management Collection Book**

System information This make it easier manager library in manage collection existing books . Book data can updated in real-time, allowing manager For add book new , delete the book that has been No available , and updating information related the existing book . This is ensure that collection registered books in system always accurate and up to date .

### **Subtraction Error Administration**

With use system information , error frequent administration happen in manual recording can minimized . Borrowing data , returns , and information book can recorded with more accurate and organized , so that manager library No need worry about data loss or error recording .

### **Improvement Satisfaction Users**

Implementation system This in a way direct impact on increasing satisfaction user library . Students and teachers feel more easy in borrow and return book . While that , the manager library feel more helped in do recording and creation report , which was previously very time consuming time .

### **Discussion**

After implementation System Information Library at Hidayah Vocational School, various change positive and significant improvement in management library has recorded . In the section this , we will discuss more carry on about results achieved as well as challenges and solutions faced during the development and implementation process system .

### **Improvement Efficiency Recording Borrowing and Returning Book**

Previously , a manual system was used For take notes borrowing and returning book need Lots time and vulnerable to error human . With implementation system new , recording transaction become more automatic , minimize risk error recording , and speed up the process. The system This in a way direct take notes transaction to in the database without requires frequent manual input contain inaccuracy .

However , even though system This has increase efficiency , need existence training advanced for manager library so that it can optimize use system , especially in handle more transactions complex , such as borrowing book in amount big or transactions involving book with different status .

### **Improvement Speed Search Book**

One of feature the main one who gets appreciation tall is ability search more books quickly . Previously , students and teachers needed to look for book manually on the rack , which is not only eat time but also often not efficient If collection book Enough big . With feature search keyword based , user can with easy find book based on title , author , or category without must inspect one by one collection book . This is increase comfort for user libraries , which are increasingly used to with convenience technology .

However , it is necessary noted that Effective search relies heavily on organized data . with Good in system . In some case , there is a number of books that have missing metadata complete , such as category or an author who does not filled with good . Therefore that 's important For ensure that the process of inputting book data done in a way careful and complete .

### **Improvement Accessibility Information Library**

web - based system allows user For access information library When anywhere and anytime , as long as connected with the internet. This is very helpful students and teachers who may own limitations time moment visit to library in a way physical . In addition , the manager library can monitor activity library in a way more flexible , even from distance Far .

Although so , accessibility this also depends on stability internet network in schools . Some location inside school Possible own poor internet connectivity stable , which can influence comfort user moment access system . Therefore that 's important for party school For ensure existence adequate internet infrastructure For support system This .

### **Convenience in Making Report**

Previously , the creation of report borrowing and returning book done manually and consuming quite a long time . With system new , reports This can produced in a way automatic in various formats, such as PDF or Excel, which makes it easy manager library and parties school in do evaluation and planning .

Although system This has reduce burden administration , in a number of case , the report generated need customized more carry on with need specific party school , such as more reports

detailed about use book certain or statistics borrowing based on time or category . This is can done with adjustments to the module report system .

### **Improvement Management Collection Book**

Management collection book become more easy because of book data can updated in real-time. Manager library No Again need inspect manually every time book For ensure whether book the Still There is or no . System can provide availability status book in a way directly , which makes it easier in management stock books and procurement book new .

However , it is important For notice data integrity in system . Manager need ensure that the book data entered to in system always accurate and updated with appropriate time . This includes recording lost , damaged , or lost books Already No worthy use for system still reflect condition collection actual library .

### **Subtraction Error Administration**

One of profit the biggest from system This is subtraction error administration . Previously , the error in recording borrowing or return book often happens , especially moment manage transaction data manually . With system new information , all data is recorded with more accurate and easy tracked . This reduces risk lost book or error in take notes amount borrowed book or returned .

However , for guard system still accurate , manager library need do routinely verification and audit of existing data in system . In addition , the manager must given training For avoid data input errors , such as filling in book data that is not complete or transactions that are not recorded with Correct .

### **Reception Positive from Users**

Students , teachers, and administrators library in a way general give bait very positive feedback to system new This . They feel more easy in access book , do borrowing and returning , as well as get more reports accurate . Manager library feel helped with the efficiency provided by the system , which reduces previous time spent For manage data manually .

However , some users , especially those less familiar with technology , maybe need time For adapt with system this . Therefore that , continuous training for manager libraries and students are very important For ensure they can utilise system optimally .

### **Improvement Satisfaction Users**

One of most significant results from implementation system This is improvement satisfaction users . With convenience in borrowing books , more access fast to information , and more reports efficient , students , teachers, and administrators library feel more satisfied with service existing libraries . Satisfaction This reflect success system in fulfil need more users fast , more efficient , and more transparent .

Development System Information The library at Hidayah Vocational School has produce various positive changes , starting from improvement efficiency , convenience search book , until management more collections good . Although Thus , the challenge like data integrity , stability network , and needs For ongoing training must still be noted that the system This can functioning optimally . With good maintenance and evaluation periodic , system This expected can Keep going increase quality service library and support the teaching and learning process at SMK Hidayah.

### **Conclusion**

Making System Information The library at Hidayah Vocational School has succeed overcome various existing challenges in management libraries , especially in matter efficiency recording borrowing and returning books , and convenience access information for users . With implementation system web- based , borrowing and returning process book become more fast , accurate , and organized . Manager library can more easy do recording , monitoring collection books , and produce report in a way automatic .

System this also allows improvement accessibility information for students and teachers, who can access library data When anywhere and everywhere . Search book become more easy through feature search keyword based , while management collection book become more effective

and transparent . Although Thus , some challenge like stability Network and needs training advanced for manager library still need be noticed For ensure smoothness operational system .

In general overall , system information This has give impact significant positive in increase quality service library at Hidayah Vocational School, as well give convenience in data management and services for all over users . It is expected that with ongoing care and evaluation , system This will Keep going support development and needs library in the future .

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