

Implementation of Digital Library Applications at SMK Wira Buana 2 Citayem Bogor

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ABSTRACT

Libraries have long been at the heart of the educational environment, playing a vital role in providing the resources necessary for learning and research. However, with the advent of digital technology, traditional libraries have faced new challenges in providing easy and efficient access to educational resources. Therefore, this research aims to investigate the implementation of digital library applications at SMK Wira Buana 2 Citayem as an effort to improve library services and expand access to learning resources for students and teaching staff. This study will describe the process of implementing digital library applications at SMK Wira Buana 2 Citayem, including platform selection, content development, user training, and integration with other supporting systems. The research method used is a combination of literature studies to understand the basic concepts of digital library applications and case studies to analyze ongoing implementation at SMK Wira Buana 2 Citayem. It is hoped that the results of this research will provide a better understanding of the benefits and challenges in implementing digital library applications in secondary education environments. Apart from that, it is hoped that this study will also provide insight for other schools that are considering carrying out digital transformation in their library services.

Keywords: Digital Library, Digital Technology, School

INTRODUCTION

In the context of Wira Buana 2 Citayem Vocational School, implementing digital library applications will be a strategic step in improving the quality of education and preparing students to face the challenges of an increasingly digital future. Through this innovative approach, it is hoped that schools can continue to be at the forefront in providing quality education that is relevant to the demands of the times.

1. *Partner Problems*

Libraries are an important element in the world of education. Along with technological developments, traditional libraries that rely on physical books are starting to shift towards a digital library model. Wira Buana 2 Citayem Vocational School as a progressive educational institution realizes the importance of adapting to technological developments. Therefore, implementing a digital library application at SMK Wira Buana 2 Citayem is a relevant and strategic step to advance the existing education system. Implementing digital library applications is not just about following technological trends, but also brings a number of significant benefits. First of all, with the adoption of this technology, access to learning resources will become easier and faster for students and teaching staff. They are no longer limited by the library's physical operating hours, because access can be done anytime and anywhere via internet-connected devices. This will increase efficiency in the learning process, allowing students and teachers to get the information they need more quickly. Apart from that, implementing digital library applications will help reduce space and physical book

collection limitations. In traditional libraries, limited space is often a problem, especially when schools have a large number of students. With digital libraries, schools no longer have to worry about physical storage space or lack of collections, because resources can be stored in digital formats that allow unlimited access.



Figure 1. PKM participants

2. Solutions Offered

To overcome the problems that arise due to the manual attendance system, an efficient and modern solution is to use an application. Digital library. The design for solving community service problems is a plan regarding the activities that will be carried out during the activities carried out. The basis for solving this problem is through educational activities in the form of counseling and training for students. Wira Buana 2 Vocational School, Citayem which is packaged with the activity name "IMPLEMENTATION OF DIGITAL LIBRARY APPLICATIONS IN VOCATIONAL SCHOOLS WIRA BUANA 2 CITAYEM."

The following is a flowchart regarding the problem solving design. For more details, you can see the problem solving design scheme for the PKM object in Wira Buana 2 Vocational School, Citayem, including:

1. Explanation of Digital Libraries
2. Application of Digital Libraries
3. Question and answer session
4. Closing

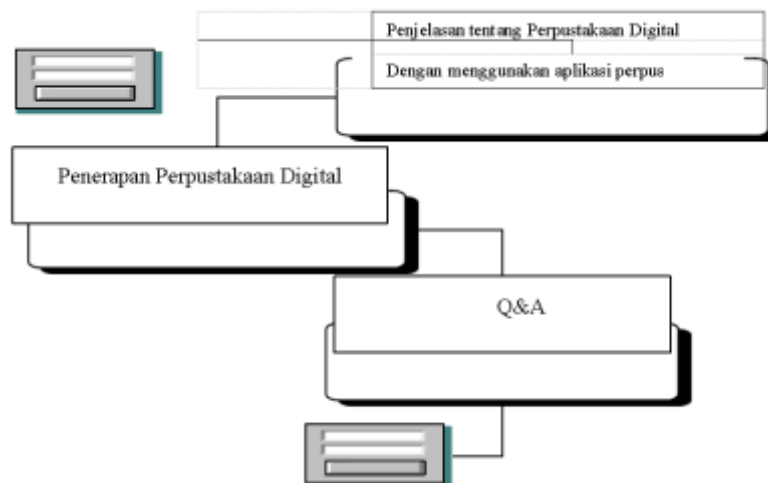


Figure 1. Problem Solving Flowchart

3. *Goals of Community Service*

Based on the analysis of the problem situation above, the objectives of this Community Service activity are:

1. To describe the form of planning community service activities in the form of using applications Digital Library.
2. To describe the process of implementing community service activities in the form of using applications Digital Library which can provide a good solution to the problem of manual school attendance.
3. To find out the impact that students get after community service activities in the form of using applications digital library to improve student discipline and work ethic.



Figure 2. With Wira Buana-2 Vocational School Students

4. *Basic Concepts of Digital Libraries*

A digital library can be defined as an organized collection of information resources stored in digital format and accessible through a computer network. This definition includes several important aspects:

- a. Organized Collections: Like traditional libraries, digital libraries also have an organizing system that makes it easier for users to search and access information.
- b. Digital Format: Information stored in digital form, such as electronic text, images, audio, and video.
- c. Network Access: Users can access library collections via the internet or certain internal networks.

5. *Digital Library Technology and Infrastructure*

Digital libraries utilize various technologies and infrastructure for their operations, including:

- a. Library Management System (LMS): Software used to manage collections, loan transactions and other library services.
- b. Digital Repositories: Digital document repositories that enable long-term access, management, and preservation.

- c. Metadata: Information about data that helps in organizing, searching, and managing digital collections.
- d. Protocols and Standards: Such as Dublin Core, MARC, and OAI-PMH are used to ensure interoperability and data quality in digital libraries.

Digital libraries are an important innovation in the world of libraries that provide many benefits in accessing and managing information. However, to reach their full potential, digital libraries must overcome a variety of technical, legal, and social challenges. With continued technological developments, digital libraries are expected to continue to adapt and develop to meet society's information needs.

METHODS

To realize an effective digital library, various problems must be identified and solved through technological, managerial and policy approaches. The following are several strategic steps and practical solutions that can be implemented.

Security and Privacy

Security and privacy are important issues because digital libraries store a lot of user data and digital collections.

Digital Preservation

Digital preservation ensures long-term access and integrity of digital data.

Uses file formats that are standardized and have long-term support, such as PDF/A for documents.

Accessibility and Connectivity

Accessibility and connectivity are challenges in providing equitable access to digital libraries, especially in areas with inadequate internet infrastructure.

Collection Organization and Management

Managing and organizing digital collections requires efficient systems for organizing metadata and content.

User Education and Training

Users need to understand how to make optimal use of digital libraries.

3.2 Target Audience

The target audience for this community service activity is teachers and students Wira Buana 2 Vocational School, Citayem

3.3 Place and Time

The place for carrying out Community Service activities is at Wira Buana 2 Vocational School, Citayem with implementation time on Thursday, 30 May 2024.

RESULTS

This community service activities is carried out in the form of workshops to increase teacher assessment literacy in Wira Buana 2 Vocational School, Citayem with the following activity steps:

1. Activity Planning

Things that are done in planning activities include: 1) coordinating with the PKM team for the division of tasks, 2) coordinating with other parties. Wira Buana 2 Vocational School, Citayem., 3) make activity proposals, 4) make activity materials, 5) make monitoring instruments for program implementation starting from the planning, implementation, monitoring and evaluation and follow-up stages.

2. Implementation of Activities

After the plan has been prepared, the next step is to carry out the activity. This activity is carried out for 1 day with the implementation schedule presented in the following table 3.1 below:

Table 3. Activity Schedule

No	Time	Activity Description	Person in Charge
1	07.30-08.00	Participant Conditioning	PKM Team

2	08.00-08.15	Opening	Mr. Marbani S.Pd
3	08.20-08.35	Speech from the Principal of SMK Wira Buana 2	Mr. Heri Saptono ST
4	08.35-08.50	Speech from the Head of PKM Implementation	Salman Farizy M.Kom
5	08.50-11.10	Presentation of Digital Library Workshop Material	Endin Fahrudin M.Kom
6	11.10-11.50	Q&A Session	Drs. Afrizal Zein M.Kom
7	11.50-12.10	Group Photo Session	

3. Monitoring and Evaluation of Activities

Monitoring and evaluation are important components in digital library management that ensure that library activities and services run according to plan and provide the expected impact. By using various indicators and M&E methods, libraries can identify successes and shortcomings, and make necessary improvements to improve service quality.

Monitoring of P's activitiesKThis M is implemented starting from planning, implementation and evaluation. The instruments used are instruments for implementing planning, implementation and evaluation of community service activities and instruments for testing understanding in using the application. Meanwhile, the evaluation of community service activities is reviewed from the implementation aspect and the aspect of goal achievement. Aspects of program implementation such as implementation of planning, implementation and evaluation. Then there are aspects of achieving goals such as achieving increased teacher and student efficiency through the use of the Smart Presence application.

4. Reflection and Follow-up

Reflection and follow-up are important stages in the digital library management cycle. This process involves an in-depth evaluation of the results of monitoring and evaluation (M&E) that have been carried out, as well as implementing corrective actions based on these findings. This step ensures that digital libraries continue to develop and adapt to user needs and technological changes. This reflection activity on PkM was carried out based on the results of monitoring and evaluating the implementation and achievement of the objectives of the activity of Utilizing Online Assessment Applications to Improve Digital Assessment Literacy for Teachers in Wira Buana 2 Vocational School, Citayem South Tangerang.. The form of reflection in this activity is the activity of analyzing deficiencies during the implementation of activities, analyzing implementation and achieving goals.

CONCLUSION

The implementation of the digital library application at SMK Wirabuana 2 Citayam Bogor has revealed several important findings that could significantly enhance the quality of education and access to information for students and school staff. One of the primary benefits observed is the increased access to information. The digital library application allows students and staff to easily and quickly access a wide range of educational resources, including books and journals. This capability eliminates the physical access limitations typically encountered in conventional libraries, especially during periods requiring distance learning.

Another notable advantage is the efficiency of library management. The digital library application streamlines the management of library collections and services, making the borrowing and returning of books more straightforward and organized. Additionally, it facilitates more accurate and rapid inventory management of the library's collection, ensuring that resources are readily available to users.

Moreover, user satisfaction has seen a marked improvement. Surveys indicate that users are highly satisfied with the library services, praising the ease of access and the variety of features the application offers. These features include fast search capabilities, notifications about book availability, and personalized reading recommendations, all of which contribute to a more efficient and user-friendly library experience.

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