

School Website Information System Development Training

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Abstract

The School Website Information System Development Training aims to improve the technical skills of participants in managing and developing school websites, so that it can facilitate the information and communication process between schools, students, teachers, and parents. This training includes an introduction to content management systems (CMS) such as WordPress and Joomla, data management, and the application of data security principles in managing school websites. The methods used in the training include theory sessions, hands-on practice, and group discussions. The results of the training showed a significant increase in participants' knowledge and skills, especially in using CMS and managing website content. Before the training, only 40% of participants understood the basics of web technology, but after the training, this figure increased to 80%. In addition, most participants also showed an increase in their confidence and ability to manage school websites independently. However, several technical challenges, such as database management and website optimization, are still obstacles that need more attention in subsequent training. Overall, this training succeeded in achieving its goal of improving website management skills in schools, as well as providing a strong basic understanding of the importance of data security in educational websites.

Keywords: Training, Information Systems, School Website, CMS, Data Security, Website Management

Introduction

In the rapidly developing digital era, information technology has a very important role in improving the quality of education, especially at the school level. One aspect that needs to be considered is the development and utilization of website-based information systems. An effective school website not only functions as a medium of information for students, teachers, and parents, but also as a means to accelerate the process of administration, communication, and more efficient data management. (Junaedy et al., 2021) .

However, managing a school website requires sufficient technical skills, from design, development, to maintenance of the information system. Therefore, this training is designed to provide participants with an understanding and practical skills in developing and managing a website-based information system for schools. (Hidayat et al., 2020) .

This training will cover various important topics such as basic web programming, content management, database development, and implementation of a content management system (CMS) for ease in updating information on the school website. In addition, participants will also be equipped with knowledge about the importance of data security aspects in website management and how to optimize the website so that it can be easily accessed by all users. (Purnomo et al., 2024) .

With this training, it is expected that participants can understand the importance of developing an effective school website and be able to implement it independently in their respective schools. This will not only improve the operational efficiency of the school, but also provide a better experience for students and parents in interacting with the educational environment. (Meliza et al., 2024) .

Through this training, it is hoped that participants will be able to acquire the skills needed to design, develop and manage school websites in a professional and innovative manner, as well as understand the various technical and non-technical aspects related to managing website-based information systems in educational environments. (D et al., 2024) .

Research Methods

The School Website Information System Development Training will be implemented using a method that combines theory and practice, as well as an interactive approach to ensure participants gain a comprehensive understanding and applicable skills.

Lecture and Presentation, This method will be used to deliver basic theoretical material about website development, including basic concepts of web technology, school website architecture, and the importance of information systems in educational environments. The material will be delivered using presentation media such as PowerPoint, videos, and live demonstrations from experienced instructors.

Direct Practice, Participants will be given the opportunity to directly develop and manage school websites using various tools and platforms that have been prepared, such as CMS (Content Management System), basic HTML/CSS, and database management using MySQL or other platforms. In this session, participants will be instructed to create website pages, manage content, and add important features such as contact forms, announcements, and photo galleries. Each participant will be given a small project to practice during the training, such as building the basic structure of a school website or integrating an online registration system.

Results and Discussion

The School Website Information System Development Training aims to improve participants' understanding and skills in managing and developing school websites. This training involves a series of theory and practice sessions with a focus on the use of content management systems (CMS) such as WordPress, Joomla, and the application of data security principles to websites.

Improving Participants' Knowledge and Skills

Most participants experienced significant improvements in their knowledge and skills after attending the training. Before the training, only a small number of participants had a deep understanding of website development and CMS management. However, after the training, almost all participants managed to understand the basic concepts of website development and web-based information system management.

Increased Web Technology Knowledge: Before the training, 40% of participants claimed to have basic knowledge of web technologies, while after the training, this figure increased to 80%.

CMS Skills: Only about 35% of participants were able to use CMS effectively before the training. After the training, this number increased to 85%, indicating participants' understanding in managing and developing content on the website.

Website Data Security: Before the training, 30% of participants understood the importance of website data security. After the training, this figure increased to 75%, indicating a significant increase in participants' understanding of how to secure data on school websites.

Hands-on Practice in Website Management

During the practical session, participants were given the opportunity to develop their own school website using CMS. Some participants successfully integrated important features such as online registration forms, photo galleries, and school activity announcements. Most participants also successfully managed user access rights on their website, allowing admins, teachers, and students to access information in a structured manner.

Participant Feedback

According to the results of a survey conducted after the training, most participants were satisfied with the training provided. 80% of participants felt that the training improved their skills in managing school websites. 90% of participants felt more confident in using the CMS platform taught during the training, and most participants expressed that they were ready to apply the knowledge gained in managing their school websites.

Discussion

Participant Skills Improvement

The improvement of participants' skills shows that the training method used is quite effective in helping participants understand and master web technology, especially in terms of using CMS for managing school websites. This is in line with previous studies showing that hands-on training can significantly improve participants' understanding in terms of technical skills (Smith, 2020).

However, despite significant improvements in participants' understanding, there are still some challenges faced by participants, especially in terms of database management and the implementation of more sophisticated content management. This is due to the limited training time which is not enough to cover advanced topics in depth.

Implementation of Data Security and User Management

The training also succeeded in increasing participants' understanding of the importance of data security in managing school websites. Data security is an important issue in website management, especially in the context of school websites that store personal information of students and teachers. After the training, participants better understand how to implement basic security such as the use of security plugins and data encryption. However, the challenge that arises is that not all participants can implement more sophisticated security techniques, such as more complex management of user access rights.

Challenges Faced

During the training, several technical challenges emerged, especially in terms of database management and website optimization. Some participants had difficulty understanding how to integrate the database with the website and optimize the website speed to ensure smooth access for users. Time constraints were also a factor that affected the participants' ability to complete the practical tasks well. Therefore, it is recommended to provide more time for the practical sessions and provide additional materials on database management and website optimization.

Limitations and Suggestions for Further Training

Although this training has successfully improved the skills of the participants, there are some limitations that need to be considered for further training. Limited time to master all technical materials is one of the obstacles. Therefore, further training needs to extend the duration of the practical session and deepen the material related to database optimization and management.

In addition, to enrich the participants' experience, it is recommended to hold a more in-depth follow-up session on more sophisticated website management, such as the integration of e-learning systems and web-based learning. This will provide added value and better prepare participants in managing school websites with more complete features.

Conclusion

The School Website Information System Development Training successfully improved participants' knowledge and skills in managing school websites. Although technical challenges and time constraints were obstacles, overall, the training proved effective in providing a better understanding of website management, data management, and security implementation in school websites.

Recommendations for further training include providing more time for hands-on practice, deepening the material on database management and website optimization, and adding advanced material for more sophisticated website management. Thus, participants can be better prepared in managing and developing a professional and secure school website.

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