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Designing a Web-Based Financial Information System to Increase the Efficiency of Volleyball SMEs IAIN Syekh Nurjati Cirebon

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Abstract: The SME Volleyball at IAIN Syekh Nurjati Cirebon has a high demand for efficiently managing their finances. Therefore, this paper aims to design and implement a web-based Financial Information System that can enhance the efficiency of financial management for the Bola Volly SME . This paper will outline the process of designing the financial information system, which includes requirements analysis, system design, implementation, and testing. During the requirements analysis phase, specific needs of the Volleyball SME will be identified, such as financial bookkeeping, income and expense monitoring, and financial reporting . Based on the requirements analysis, the design of the financial information system will be developed using a web-based approach. This design will encompass the database structure, user interface, and functionalities required to efficiently carry out financial activities for the Bola Volly SME. The system implementation will utilize popular web technologies, such as HTML, CSS, and JavaScript, along with relevant software development frameworks. Following implementation, the system will undergo testing using predetermined scenarios. These tests aim to ensure that the web-based financial information system functions according to requirements and effectively enhances the financial management efficiency of the Bola Volly SME. Test results will be evaluated and analyzed to improve and refine the system if necessary. It is expected that this paper will make a positive contribution in enhancing the financial management efficiency of the Vollyball SME at IAIN Syekh Nurjati Cirebon. The designed and implemented web-based financial information system in this paper is anticipated to be an effective solution for SMEs in managing their finances and can serve as a reference for the development of similar systems in other institutions.

Keywords: Financial Information System, Web-based, Efficiency, SME, Volleyball, IAIN Syekh Nurjati Cirebon, Requirements Analysis, System Design, Implementation, Testing.

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INTRODUCTION

Along with the development of information technology in recent years, it has advanced very rapidly, so that it has changed the paradigm of society in seeking and obtaining information, which is no longer limited to information on brochures and newspapers, but also other sources of information, one of which is through the internet. [1] [2] .

In the ever-evolving digital era, it is important for organizations, including small and medium business units (SMEs), to make optimal use of information technology to increase their operational efficiency. One very important aspect in managing SMEs is effective financial management. Volleyball UKM at IAIN Syekh Nurjati Cirebon as an example, faces challenges in managing their finances efficiently and accurately.

Neither does Technology and Information Systems can be separated from the management of an organization or company, especially in financial management. Using the help of information systems in financial management really helps an organization both in terms of effectiveness, efficiency, accuracy and data treasury [3] [4] .

In this context, the design and implementation of a web-based Financial Information System can be an effective solution in increasing the efficiency of the financial management of UKM Volleyball. By leveraging web technology, SMEs can automate the process of bookkeeping, monitoring income and expenses, and financial reporting, all of which can help in making better and more efficient decisions. Previous research has shown significant benefits from implementing web-based financial information systems in various industries and sectors. However, in the context of UKM Volleyball at IAIN Syekh Nurjati Cirebon, there is no financial information system that suits their specific needs [5] . Meanwhile, there are also several studies Previously discussing case studies of online applications, among others, conducted by Saptarini et al. [6] regarding the design of a student grade information system using the SMS gateway application [7] [8] .

Therefore, this paper aims to design and implement a web-based Financial Information System that can help Volleyball SMEs improve the efficiency of their financial management. In this paper, an in-depth analysis will be carried out on the needs of Volleyball SMEs in managing their finances, as well as designing and implementing systems that suit these needs [9] .

It is hoped that the results of this research will provide significant benefits for Volleyball SMEs at IAIN Syekh Nurjati Cirebon. With an efficient web-based financial information system, it is hoped that SMEs can better manage their finances, optimize decision making, and increase their overall productivity [10] .

In this paper, we will describe the steps taken in designing and implementing a web-based financial information system, as well as the methods used in testing and evaluating the system. Apart from that, this paper will also describe the expected benefits of implementing this system in increasing the efficiency of financial management of Volleyball SMEs at IAIN Syekh Nurjati Cirebon [11] . Through this research, it is hoped that it can make a significant contribution to the development of web-based financial information systems for SMEs in the university environment and provide a basis for further research in this domain.

THEORETICAL BASIS

1. Financial Information System:

An information system is a system built to serve and support human needs in making organizational decisions to achieve a goal [12] [13] . The theoretical study of financial information systems provides an understanding of the importance of using information technology in managing finances. This includes an understanding of the components of financial information systems, such as bookkeeping, monitoring income and expenses, financial reporting, and financial analysis. This theory also includes the benefits of implementing financial information systems in increasing the efficiency and accuracy of financial management.

2. Web-based System:

Theoretical studies of web-based systems discuss the use of web technology to develop applications and systems that can be accessed via a web browser. It includes an understanding of web programming languages such as HTML, CSS, and JavaScript, as well as the concepts of effective user interface design. The implementation of a web-based financial information system allows easy access, better collaboration, and fast system updates [10] .

3. Financial Management Efficiency:

The theory of financial management efficiency is related to the use of technology to increase productivity and reduce costs in the financial management process. This includes automation of routine tasks, real-time monitoring, use of financial analysis tools, and efficient system integration. In the context of Volleyball SMEs, understanding best practices in SME financial management and strategies to increase financial efficiency will be the focus of this theoretical study.

4. Benefits of Web-Based Financial Information Systems for SMEs:

Theoretical study of the benefits of a web-based financial information system for SMEs will discuss empirical evidence from previous studies showing the benefits of implementing this system. This includes efficiency improvements in bookkeeping, cash management, revenue and expense monitoring, as well as more accurate and fast financial reporting [14] . This theoretical study will also discuss the positive impact of using a web-based financial information system on better decision making and growth strategies for SMEs.

5. Related research:

This theoretical study will cover related research that has been conducted in the context of developing web-based financial information systems for SMEs or similar sectors. This will involve a literature review of relevant previous research in terms of system development methods, implementation success, and resulting impact.

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1. Financial Information System:

In various tertiary institutions, they always update the system, especially in the academic and financial fields. There are many ways that can be taken to optimize academic & financial information system services in a university. In accordance with current technological developments, academic & financial information systems lead to web-based or online use, where all access to activities can be conveyed or channeled via computers connected to the internet. [15] .

2. Web-based System:

The web is a page that contains information in various forms by utilizing an internet connection [16] . When writing the required information on a search engine via the internet,

what will appear are various web pages and the information in them [17] . Theoretical studies on web-based systems discuss the use of web technologies to develop applications and systems that can be accessed via a web browser. This includes an understanding of web programming languages such as HTML, CSS, and JavaScript, as well as effective user interface design concepts. The application of a web-based financial information system allows easy access, better collaboration, and fast system updates.

3. Financial Management Efficiency:

Theories about financial management efficiency relate to the use of technology to increase productivity and reduce costs in the process of financial management. This includes automating routine tasks, real-time monitoring, use of financial analysis tools, and efficient system integration. In the context of volleyball SMEs, an understanding of best practices in SME financial management and strategies to improve financial efficiency will be the focus of this theoretical study.

4. Benefits of Web-Based Financial Information Systems for SMEs:

The theoretical study of the benefits of web-based financial information systems for SMEs will discuss empirical evidence from previous research that shows the benefits of implementing this system. This system can avoid problems with data loss (files lost, damaged, etc.) because it is stored safely on the system [18] .

5. Related Research:

This theoretical study will include related research that has been carried out in the context of developing web-based financial information systems for SMEs or similar sectors. This will involve a literature review of relevant previous research in terms of system development methods, implementation success, and resulting impact.

RESULTS AND DISCUSSION

A. Website Analysis

At this stage, we will outline several things related to the scope of the stages required in website design.

1. Accessibility Advantages: In analyzing the web, the advantage of accessibility becomes a major factor. By using a web-based financial information system, Volleyball UKM members at IAIN Syekh Nurjati Cirebon can access their

financial information from anywhere and at any time via devices with an internet connection. This allows flexibility in managing their finances without time and place restrictions.

2. Collaboration and Communication: The web-based financial information system allows better collaboration and communication between UKM Volleyball members. They can share real-time financial data, send messages, and collaborate on financial tasks. This can speed up the decision-making process and increase synergy between team members.
3. Timely Financial Management: With a web-based financial information system, Volleyball SMEs can get real-time access to their financial information. They can track income and expenses in detail, identify financial trends, and monitor cash flow in real time. This enables faster and more accurate decision making based on the latest financial information.
4. Financial Process Automation: Web-based financial information systems can introduce automation in the financial processes of UKM Volleyball. For example, automated bookkeeping can reduce human error and the time required to perform data entry. Automatic monitoring of income and expenses can also provide a better understanding of financial performance and assist in identifying areas that need special attention.
5. Security and Privacy: Web analytics also includes security and privacy in financial information systems. The design of this system must pay attention to the security of the Vollyball UKM's financial data, including the use of data encryption, setting user access rights, and other data protection measures. By maintaining security and privacy, SMEs can ensure the confidentiality of their financial information.

Through this web analysis, it can be concluded that the design and implementation of a web-based Financial Information System for Volleyball SMEs at IAIN Syekh Nurjati Cirebon will provide significant benefits in increasing accessibility, collaboration, speed and accuracy of financial management. In addition, security and privacy factors must also be considered to maintain the integrity of the Vollyball UKM's financial data.

B. Website Design and Website Design

System design involves several important components. First, the Context Diagram provides an overview of the system process flow and interactions with external entities. Furthermore, Data Flow Diagrams (DFD) are used to model the flow of data in the system. Use Case Diagrams identify system functions and interactions with users or other actors. Entity Relationship Diagram (ERD) is a diagram in the form of a graphic notation that is in the creation of a database that connects data to one another [19] . Finally, creating a website appearance prototype helps in designing a visual design according to user needs. System implementation involves coding based on the designs that have been made. System design is important to ensure the suitability of the system with previously established needs and objectives.

Context Diagram

Context Diagram is a visual representation that shows the relationship between the main system and external entities. It helps describe how the system interacts with its environment, such as users, hardware, and other systems. These diagrams help in understanding the system environment, identifying interacting external entities, and setting system boundaries.

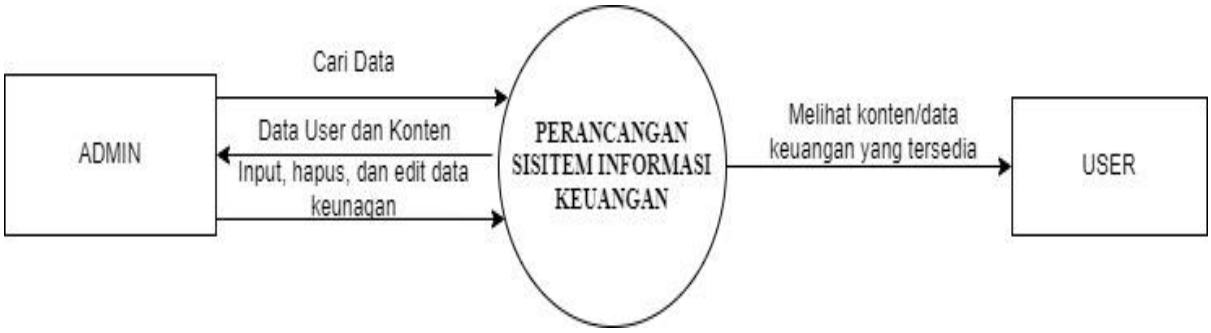
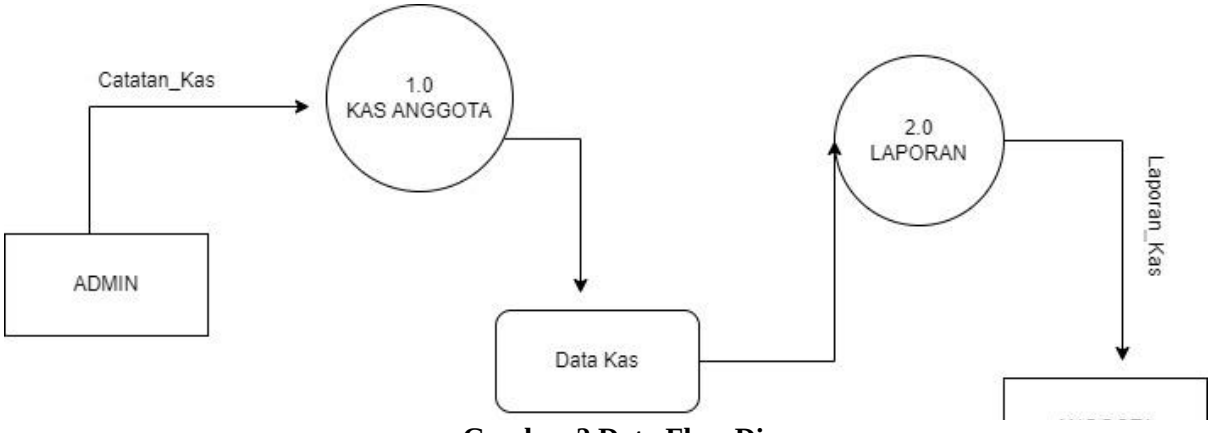


Figure 1Context Diagram

DFD (Data Flow Diagrams)

Data Flow Diagram (DFD) is a diagram that uses notations to describe the flow of system data, the use of which is very helpful for understanding the system logically,



Gambar 2 Data Flow Diagram

structured and clearly [20] . Processes describe activities or actions that occur with data, while data flows indicate the movement of data between processes, external entities, and data stores. The external entity represents the external source or destination of the data flow, while the data store represents the place where the data is stored in the system. DFDs aid in the understanding of how data moves within the system, identify the processes involved, and show relationships between processes, external entities, and data stores. DFD is often used in system analysis and design to describe business logic and interactions between system components.

Entity Relationship Diagram (ERD)

Entity Relationship Diagram (ERD) is a diagram in the form of a graphic notation that is in the creation of a database that connects data to one another . Modeling Entity Relationship Diagram (ERD) can be done manually, however generally obtaining ERD modeling manually takes a long time. So, an ERD generator is needed from the requirements specifications to make it easier to do ERD modeling [21] .

Activity Diagram

An activity diagram on a website is a visual representation of the workflow or processes that occur on a website. Activity diagrams describe workflows or activities of a system and users [22] . This diagram maps out the steps or activities carried out by the user or system in interacting with the website. In a website activity diagram, each activity is represented by graphical symbols such as rectangles or circles with links that describe the flow from one activity to another. Activity diagrams or activity diagrams describe the work flow of a system [23] .

These diagrams help in visually understanding how users interact with the website, the steps to be taken, the flow of information and the response expected from the website. By using activity diagrams, web designers and developers can identify areas for improvement, optimize the user experience, and improve process efficiency within websites.

Following are some of the activity diagrams in designing this website system:

1. Registration Activity Diagram

   Registration Activity Diagram is a type of diagram used in business process modeling to describe the steps or activities involved in the registration process. This

diagram focuses on the sequence of steps that must be followed and how the flow of information or work occurs between these activities.

The Registration Activity Diagram uses graphical symbols to represent activities, decisions, control flows, and data flows. These symbols are connected by arrows indicating the order of execution of activities and the flow of information between them. Student payment input activity diagrams are used to provide a real picture of the data input process into the system [24] .

A simple example of a Registration Activity Diagram might involve steps like the following:

1. User opens the online registration form.
2. Users enter their personal information, such as name , address, and telephone number.
3. The system validates the information entered by the user.
4. If the information is valid, the system saves the registration data and sends registration confirmation to the user.
5. If the information is invalid, the system gives an error message to the user and asks them to correct the error.
6. The registration process is complete.

Registration Activity Diagram helps in visualizing and understanding the work flow of the registration process in a clear and structured manner. This diagram can also be used as an effective communication tool between stakeholders involved in the registration process, such as users, system developers and other related parties.

2. Login Activity Diagram

Login Activity Diagram is a type of diagram used in business process modeling to describe the steps or activities involved in the process of logging in or logging into a system or application. This diagram focuses on the sequence of steps that a user must follow to successfully log in to the system.

Login Activity Diagrams use graphic symbols to depict activities, decisions, control flow, and data flow. These symbols are connected by arrows indicating the sequence of execution of activities and the flow of information between them.

A simple example of a Login Activity Diagram might involve steps like the following:

1. User opens the login page.
2. Users enter their username or email address and password.

3. The system validates the login information entered by the user.

4. If the login information is valid, the user is granted access to the system and redirected to the main page.

5. If the login information is invalid, the system gives an error message to the user and asks them to enter the correct login information.

6. The login process is complete.

Login Activity Diagram helps in visualizing and understanding the login process workflow in a clear and structured manner. This diagram can also be used as an effective communication tool between stakeholders involved in the login process, such as users, system developers and other related parties.

3. Activity Diagram Accessing Content, and Commenting

An “Accessing Content and Commenting” Activity Diagram is a type of diagram used in modeling business processes or systems to depict the steps or activities involved in the process of accessing content and providing comments on that content. This diagram focuses on the sequence of steps that must be followed by users in accessing content and providing comments.

The "Accessing Content and Commenting" Activity Diagram uses graphic symbols to depict activities, decisions, control flow, and data flow. These symbols are connected by arrows indicating the order of execution of activities and the flow of information between them.

A simple example of the "Accessing Content and Commenting" Activity Diagram might involve steps such as the following:

1. The user opens the content page that you want to access.
2. The user reads or views the content.
3. The user decides to leave a comment on the content.
4. The user selects the "Comment" option or a similar feature available.
5. The system displays a comment form that allows the user enter their comment text.
6. Users enter their comments into the form.
7. The system validates the comments entered by the user.
8. If the comment is valid, the system saves the comment and displays it on the content page.
9. If the comment is invalid, the system gives an error message to the user and asks them to correct the comment.

10. The process of accessing content and providing comments is complete.

The "Accessing Content and Commenting" Activity Diagram helps in visualizing and understanding the workflow of the process in a clear and structured way. This diagram can also be used as an effective communication tool between the stakeholders involved, such as users, system developers, and other related parties.

Website Design

Design is made to plan or designing something functional, so that it can solve a particular problem so that it has more value and is beneficial for society [25] . Web Design is a conceptualization, planning and building some electronic data which then determines the layout, color, text design, structure, graphics, images and is used as an interactive feature in a web page that is viewed by web visitors [26] . The goal is to create an attractive appearance that is easy to navigate and matches the brand identity. The process involves requirements analysis, layout planning, prototyping, design implementation, and testing. Good website design pays attention to usability, information clarity, visual alignment, and responsiveness. The result is a website that provides a good user experience and achieves desired business or communication goals. Here are some designs in designing this website:

1. Landing Page Design

A landing page is a form of web page that is often used used for marketing and promotional purposes, Quoted from Jurnalweb.Com, a landing page is a web page that appears when a user clicks on a PPC (Pay-Per Click) advertisement or the result of a destination link that appears from a search engine [27] . Style is the identity of a design that describes the influence of time or the origin and activities of the user [28] .

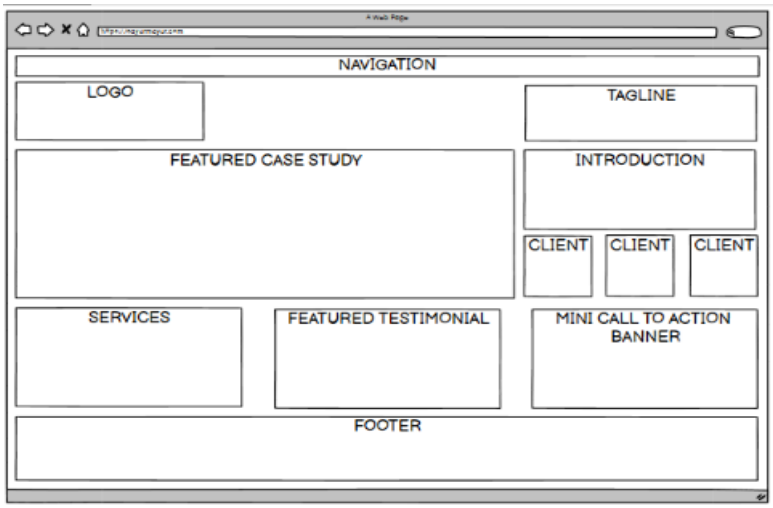


Figure 3Landing Page Design

2. Content Page Design

Content Page Design involves visual styling and structure to display relevant and attractive content on a website. Important factors in this design include a layout that is easy to read and understand, selecting appropriate fonts, using images and multimedia that support the content, and intuitive navigation to make it easier for visitors to find information.

3. Admin Page Design

Admin Page Design relates to the visual arrangement and functionality of the pages used by website administrators or managers. The Admin page should provide a user-friendly interface, with features to manage content, users, statistics and other relevant features. Admin Page designs should be intuitive, efficient and take into account the needs of the site management task.

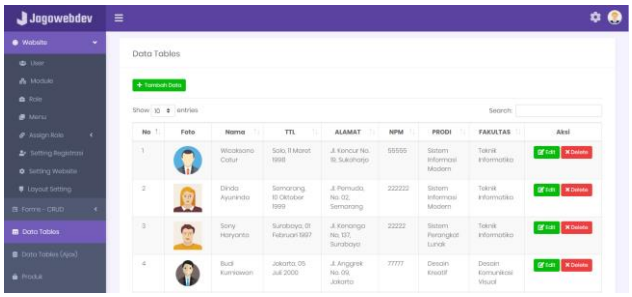


Figure 4 Admin Page Design

4. Content Content Page Design

Content Page Design involves the visual arrangement and structure to display specific content on a website, such as articles, blogs, or products. This page should prioritize readability and clarity of information, with appropriate arrangement of text, images and design elements. The content page design must also be responsive for various devices and attract the attention of visitors to keep them engaged with the content presented.

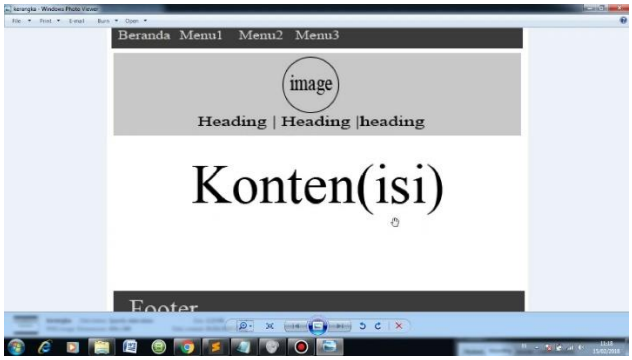


Figure 5 Content Page Design

5. Login Page Design

Login Page Design relates to the interface used by users to enter into a website that requires authentication. The design of the Login Page should be simple, clear and easy for users to understand. Features such as login forms, password recovery links, and error messages must be well designed. User security and privacy should also be considered in the design of the Login Page.

Figure 6 Login Page Design

The admin login form is intended for financial management information system admins, where previously the admin will be asked to register personal data along with a username and password to log into the system [29] .

CONCLUSION

In this paper, we discuss the design and implementation of a web-based Financial Information System to improve the efficiency of the financial management of UKM Volleyball at IAIN Syekh Nurjati Cirebon. Based on the web analysis that has been done, we can conclude that the application of a web-based financial information system to Volleyball SMEs has the potential to provide significant benefits.

By using a web-based financial information system, Volleyball SMEs can access their financial information easily and at any time. This provides flexibility in managing their finances, especially when it comes to real-time monitoring of income and expenses. In addition, this system also enables better collaboration and communication between team members , which can improve overall operational efficiency.

The application of a web-based financial information system also provides advantages in terms of automation of financial processes. For example, automated bookkeeping can reduce human error and save time required for data entry. This allows Volleyball SMEs to focus on their core activities and make better decisions based on accurate financial information.

However, in designing this system, security and privacy of financial data are critical factors that must be considered. Security measures, such as data encryption and setting user access rights, must be implemented to protect the integrity and confidentiality of UKM Volleyball's financial information.

Overall, the design and implementation of this web-based Financial Information System is expected to provide significant benefits in increasing the efficiency of financial management of Volleyball SMEs at IAIN Syekh Nurjati Cirebon. With better accessibility, more effective collaboration, and automation of financial processes, SMEs can optimize decision making, increase productivity, and achieve sustainable growth.

REFERENCES

[1] Safwandi, “Analisis Perancangan Sistem Informasi Sekolah Menengah Kejuruan 1 Gandapura Dengan Model Diagram Konteks Dan Data Flow Diagram,” *J. Teknol. Terap. Sains*, vol. 2, no. 2, pp. 1–5, 2021.

[2] Saluky, “Big Data Analysis on Smartcampus Applications IAIN Syekh Nurjati Cirebon: A Preliminary Study,” *Procediamath*, vol. 1, no. 1, 2017.

[3] “1 , 2 , 3 1,” vol. 3, no. 1, 2020.

[4] S. Santinah, “The Effect of Online Games on Learning Motivation and Learning Achievement,” *ITEJ (Information Technol. Eng. Journals)*, vol. 7, no. 1, pp. 22–31, 2022.

[5] Saluky, “Aplikasi Business Intelligence Menggunakan Metode Balanced Scorecard untuk Mengukur Kinerja Marketing Indosat Cirebon,” *J. Inform.*, vol. 7, no. 2, 2011.

[6] N. Saptarini and P. A. Widyastuti, “Rancang bangun sistem informasi nilai mahasiswa menggunakan aplikasi SMS gateway (studi kasus: Jurusan Teknik Elektro, Politeknik Negeri Bali),” *Matrix J. Manaj. Teknol. …*, vol. 5, no. 1, pp. 1–6, 2017.

[7] I. G. S. Widharma, “Perancangan Simulasi Sistem Pendaftaran Kursus Berbasis Web Dengan Metode Sdlc,” *Matrix J. Manaj. Teknol. dan Inform.*, vol. 7, no. 2, p. 38, 2017, doi: 10.31940/matrix.v7i2.527.

[8] Saluky, *Design Web Template Dengan Artisteer*. Conviden, 2016.

[9] Y. M. Saluky, “Development of the UTBK Try Out Application with Simulation Methods to Increase Student Scores,” *ITEJ (Information Technol. Eng. Journals)*, vol. 6, no. 2, pp. 93–99, 2021.

[10] Saluky, “Development of enterprise architecture model for smart city,” *ITEJ (Information Technol. Eng. Journals)*, vol. 2, no. 2, pp. 12–18, 2017.

[11] Y. M. Saluky, “A Review: Application of AIOT in Smart Cities in Industry 4.0 and Society 5.0,” *nternational J. Smart Syst.*, vol. 1, no. 1, pp. 1–4, 2023.

[12] J. H. I. D. Perwitasari;, “Kajian Konsep Desain Web Responsive Dalam Perancangan Website Informasi Dekranasda Kabupaten Samosir,” *J. Mantik Penusa*, vol. 3, no. 2, pp. 110–116, 2019.

[13] N. B. Saluky, “Revolutionizing Education: Unlocking the Potential of Asynchronous Video for Interactive Online Learning,” *Int. J. Educ. Humanit.*, vol. 3, no. 2, pp. 187–196, 2023.

[14] Y. M. Saluky, “Penerapan Algoritma Deteksi Tepi Canny Menggunakan Python dan Opencv,” *Smart-Techno (Smart Technol. Inform. Technopreneurship)*, vol. 5, no. 1, pp. 1–7, 2023.

[15] H. A. Salsabila and I. Iriyadi, “Evaluasi Atas Penerapan Sistem Informasi Akademik Dan Keuangan Terhadap Tingkat Kepuasan Mahasiswa,” *JAS-PT (Jurnal Anal. Sist. Pendidik. Tinggi Indones.*, vol. 4, no. 2, p. 137, 2020, doi: 10.36339/jaspt.v4i2.348.

[16] T. Prasetyo and R. P. Dhaniawaty, “Berbasis Web Pada Desa Cilayung Kabupaten Kuningan Web - Based Village Government Information System in Cilayung Village Kuningan District,” *J. Teknol. dan Inf.*, vol. 10, no. 2020, p. 7, 2020.

[17] W. Andriyan, S. S. Septiawan, and A. Aulya, “Perancangan Website sebagai Media Informasi dan Peningkatan Citra Pada SMK Dewi Sartika Tangerang,” *J. Teknol. Terpadu*, vol. 6, no. 2, pp. 79–88, 2020, doi: 10.54914/jtt.v6i2.289.

[18] D. P. Rahmatika and S. W. Martyas Edi, “Pengembangan Sistem Informasi Keuangan Berbasis Web Untuk Bendahara Dusun Sidawung,” *IT-Explore J. Penerapan Teknol. Inf. dan Komun.*, vol. 1, no. 1, pp. 33–48, 2022, doi: 10.24246/itexplore.v1i1.2022.pp33-48.

[19] K. ’Afiifah, Z. F. Azzahra, and A. D. Anggoro, “Analisis Teknik Entity-Relationship Diagram dalam Perancangan Database Sebuah Literature Review,” *Intech*, vol. 3, no. 2, pp. 18–22, 2022, doi: 10.54895/intech.v3i2.1682.

[20] F. Soufitri, “Perancangan Data Flow Diagram Untuk Sistem Informasi Sekolah (Studi Kasus Pada Smp Plus Terpadu),” *Ready Star*, vol. 2, no. 1, pp. 240–246, 2019.

[21] P. R. Togatorop, R. P. Simanjuntak, S. B. Manurung, and M. C. Silalahi, “Pembangkit Entity Relationship Diagram Dari Spesifikasi Kebutuhan Menggunakan Natural Language Processing Untuk Bahasa Indonesia,” *J. Komput. dan Inform.*, vol. 9, no. 2, pp. 196–206, 2021, doi: 10.35508/jicon.v9i2.5051.

[22] A. Aris, R. Anggara, and Z. A. Zamzami, “Perancangan Sistem Informasi Penerimaan Siswa Baru Berbasis Web Pada PKBM Bhakti Sejahtera,” *Cices*, vol. 2, no. 1, pp. 87–98, 2016, doi: 10.33050/cices.v2i1.215.

[23] E. Toar, I. Nintias, and C. Bawole, “Sistem Informasi Keuangan Berbasis Web Pada PT PLN UP3 Kotamobagu,” *Jointer - J. Informatics Eng.*, vol. 1, no. 02, pp. 37–43, 2020, doi: 10.53682/jointer.v1i02.16.

[24] R. Umar, S. Sarjimin, A. S. Nugroho, A. Dito, and I. Gunawan, “Perancangan Sistem Informasi Keuangan Berbasis Web Multi User Dengan UML,” *J. Algoritm.*, vol. 17,

no. 2, pp. 204–211, 2021, doi: 10.33364/algoritma/v.17-2.204.

[25] N. A. Ningsih and M. R. Abidin, “Perancangan Design User Interface Website Pada Pet Shop Azria Di Kabupaten Lamongan,” *J. Barik*, vol. 2, no. 3, pp. 202–216, 2021.

[26] I. Liani, “Rancangan Desain Website Responsif Sebagai Sarana Informasi Pada SMK Pustek Serpong,” *Idealis*, vol. 2, no. 5, pp. 504–512, 2019.

[27] M. Tegar Trilaksono, “Perancangan Landing Page Produk Video GameAquaculture Land Sebagai Upaya Promosi PadaPasar Internasional,” *Fak. Teknol. Dan Inform. Univ. Din.*, 2019.

[28] E. Erlistia, “Perancangan Desain Web Dan Instagram Undangan Pernikahan ‘Anytime Wedding Invitation,’” *Ars J. Seni Rupa dan Desain*, vol. 21, no. 1, pp. 46–65, 2019, doi: 10.24821/ars.v21i1.2869.

[29] Ismai, “Tutorial Cascading Style Sheets (CSS),” vol. 1, no. 2, pp. 24–31, 2021.