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Enhancing Website Management Through Expertise and Rapid Application Development Frameworks

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Abstract

Effective website management is crucial for organizations seeking to engage users and communicate effectively with stakeholders. This research explores the role of specialized expertise in typography, audio and visual design, copywriting, and the implementation of Rapid Application Development (RAD) frameworks in optimizing website management practices. By leveraging the skills of typography, design, and copywriting specialists, organizations create visually appealing and engaging online experiences that effectively convey messages and drive user interaction. Additionally, adopting RAD methodologies enables agile and iterative website development processes, allowing for quick prototyping, feedback integration, and rapid deployment of updates. Through synthesizing expert knowledge and RAD principles, organizations enhance their online presence, meet the evolving needs of users and stakeholders, and achieve their strategic objectives in today's dynamic digital landscape.

Keywords: PPBI; Project Management; RAD; Website; Marketing

1. INTRODUCTION

A project management system's design should be tailored to its initiators' needs. Rapid Application Development (RAD) is the most frequently adopted framework in system design [1]. This methodology prioritizes iterative development and prototyping over extensive planning and heavy documentation, facilitating quick adjustments to evolving requirements [2]. Consequently, RAD enables stakeholders to actively participate in the development process actively, ensuring that the resulting system aligns closely with their envisioned functionality and objectives [3]. Therefore, integrating RAD into the system design process enhances adaptability and responsiveness, which are crucial for effective project management systems.



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The utility of a project management system lies in its facilitation of activity oversight through the synchronization of online reports, ensuring consistency. Using such a system, stakeholders access real-time updates and progress reports, enabling prompt decision-making and intervention as necessary [4]. This synchronous flow of information fosters transparency and accountability within the project ecosystem, fostering trust among team members and stakeholders [5]. Consequently, the seamless integration of online reporting mechanisms within project management systems enhances efficiency and effectiveness in project monitoring and control, ultimately contributing to the overall success of endeavors.

The optimal supervision of websites containing portfolio content of services and products in the field of tourism is imperative for ensuring measurable productivity. By implementing robust monitoring mechanisms, stakeholders assess various metrics such as website traffic, user engagement, and conversion rates, providing insights into the effectiveness of their online presence [6]–[8]. Moreover, proactive management enables timely updates to reflect changes in offerings or market trends, maintaining relevance and competitiveness [9]–[11]. Consequently, meticulous oversight of tourism-related website content enhances productivity. It fosters continuous improvement and adaptation to evolving industry dynamics, maximizing the potential for success in the competitive tourism sector.

This research aims to design a prototype as a project management system for a website based on a case study conducted at the *Pusat Pariwisata Berkelanjutan Indonesia* (PPBI), Atma Jaya Catholic University of Indonesia. By focusing on a specific institution and its practices, this study seeks to develop a tailored solution that addresses the unique requirements and challenges of project management in sustainable tourism. Through an in-depth analysis of existing processes and systems at the designated center, valuable insights were gleaned to inform the design and implementation of a practical monitoring framework. Consequently, the proposed system is poised to enhance project management efficiency and efficacy within sustainable tourism initiatives, contributing to advancing best practices in the industry.

The urgency of this research stems from the critical need to address the growing complexities and challenges facing project management in the context of sustainable tourism. As the tourism industry expands rapidly, the demand for effective project management practices becomes increasingly pronounced, particularly in sustainability, where environmental and socio-cultural considerations are paramount [12]–[14]. This research gained insights into the specific requirements and intricacies of managing projects within the sustainable tourism sector, thereby enabling the development of tailored solutions and best practices through products and services offered by PPBI. Consequently, the timely execution of this study is essential for fostering the advancement of sustainable

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tourism initiatives and ensuring their long-term viability and success in addressing global challenges.

This research's theoretical and empirical contribution lies in its potential to advance understanding and practices in project management within sustainable tourism. By integrating theoretical frameworks from project management and sustainability studies, this research provides a comprehensive analytical lens for examining the complexities inherent in managing projects in the tourism sector while addressing environmental and socio-cultural concerns Furthermore, through empirical investigations and case studies, this research aims to generate actionable insights and practical recommendations for stakeholders involved in sustainable tourism initiatives, thereby bridging the gap between theory and practice. Consequently, the outcomes of this study have the potential to enrich scholarly discourse, inform policymaking, and guide managerial decision-making in pursuit of sustainable tourism development.

The exploration of similar research and limitations in this field underscores the need for contextualization and innovation in addressing project management challenges within sustainable tourism. Prior studies have primarily focused on conventional project management methodologies, often overlooking the unique intricacies of sustainability considerations in the digitalization and tourism marketing approach [19]-[21]. Consequently, an opportunity exists to expand existing research by incorporating a more nuanced understanding of sustainability principles and their implications for project management practices [22]-[24]. However, it is essential to acknowledge the limitations inherent in this research, including potential constraints in data availability, sample size, and generalizability of findings. Despite these challenges, a systematic approach to identifying and addressing limitations contributes to refining and advancing future research endeavors in this domain.

METHODS

This research adopts the Rapid Application Development (RAD) methodology, encompassing the stages of requirement planning, user design, construction, and cutover. Initially, requirement planning identifies and analyzes project needs, setting the groundwork for subsequent phases. User design engages stakeholders through iterative prototyping, ensuring alignment with user expectations and functionality requirements. The construction phase focuses on the accelerated development of software components, leveraging iterative cycles to refine the system. Finally, the cutover phase transitions the completed application into the operational environment, emphasizing deployment and user training. The RAD approach, emphasizing iterative development and stakeholder involvement, significantly enhances project efficiency and adaptability, ultimately leading to a more responsive and user-centric software solution.

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Subsequently, the context of prototype design focuses on a project management system to optimize *Pusat Pariwisata Berkelanjutan Indonesia's* (PPBI) website content. Initially, the design phase emphasizes creating an intuitive interface that facilitates efficient content management and user interaction. This phase is followed by integrating advanced features to support dynamic content updates and seamless navigation, catering to administrators and visitors. The prototype aims to enhance the website's operational efficiency and user engagement by prioritizing these elements. Ultimately, this approach promises a more effective and sustainable digital platform for promoting Indonesian tourism.

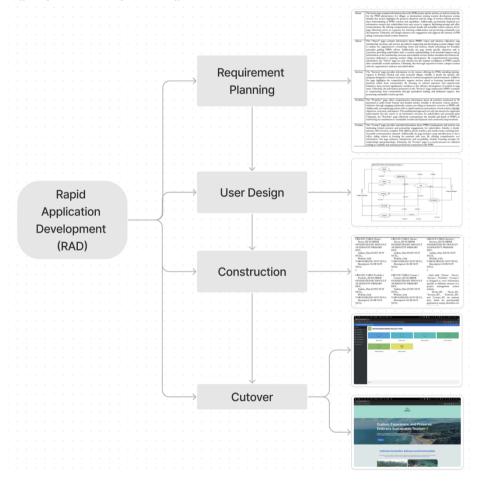


Figure 1. Implementation of Rapid Application Development (RAD)

Figure 1 shows the implementation of RAD. Subsequently, the prototype design context centers on a project management system for effectively managing website content. Initially, this system aims to streamline content organization through a

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user-friendly interface, enhancing overall site functionality [25]. Additionally, robust tools for monitoring and updating content in real time are integrated, ensuring the website remains current and relevant [26]. This strategic focus on efficient content management is expected to improve the user experience, increasing engagement and satisfaction significantly. Implementing such a project management system is pivotal to achieving a more dynamic and responsive online presence.

Considering flexibility in system design, the Rapid Application Development (RAD) framework emerges as an optimal choice for project management system design. Initially, RAD's iterative nature allows for continuous refinement based on user feedback, ensuring the system remains adaptable to evolving requirements. Additionally, the framework's emphasis on rapid prototyping and user involvement accelerates development cycles, facilitating the timely delivery of functional components. This adaptive and responsive approach significantly enhances the project's capacity to meet dynamic business needs and user expectations. Consequently, RAD provides a robust and efficient methodology for developing a highly flexible and effective project management system.

2.1. Requirement Planning

During the requirement planning stage, it is essential to identify the data and information necessary for content management. Initially, this involves determining the types of content to be managed, such as text, images, and multimedia, along with their respective formats and metadata requirements. Additionally, the planning must consider the user roles and permissions needed to ensure secure and efficient content handling. Thorough identification of these elements streamlines the development process and enhances the system's overall functionality and user experience. Ultimately, meticulous requirement planning forms the foundation for a robust and effective content management system.

Table 1. Data and Information Requirement for PPBI Website Home The home page contains information about the PPBI project and its services, as well as contact details for the PPBI administrator for villages or destinations seeking tourism development assistance. Initially, this section highlights the project's objectives and the range of services offered, providing a clear understanding of PPBI's mission and capabilities. Additionally, prominently displayed contact information ensures that stakeholders have easy access to support, facilitating prompt and effective communication. By offering comprehensive project details and accessible contact options, the home page effectively serves as a gateway for fostering collaboration and promoting sustainable tourism development. Ultimately, this design enhances user engagement and supports the mission of PPBI in aiding community-based tourism initiatives. About The "About" page contains information about PPBI's vision and mission, objectives, targets, membership structure, and services provided in supporting and

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developing tourism villages. Initially, it outlines the organization's overarching vision and mission, clearly articulating the foundational principles guiding PPBI's efforts. Additionally, the page details specific objectives and target outcomes, providing stakeholders with a concrete understanding of the intended impacts and goals. Information on the membership structure and available services further elucidates the framework and resources dedicated to assisting tourism village development. By comprehensively presenting this information, the "About" page not only informs but also inspires confidence in PPBI's capacity to drive sustainable tourism initiatives. Ultimately, this thorough exposition fosters a deeper connection with the organization's audience and stakeholders.

Services

The "Services" page provides information on the various offerings by PPBI, including training and support in Pecinan Glodok and other potential villages. Initially, it details the specific training programs designed to enhance local capacities in tourism management and development. Additionally, the page highlights the comprehensive support services aimed at fostering sustainable tourism practices within these communities. By focusing on tailored assistance and capacity-building initiatives, these services significantly contribute to the effective development of tourism in targeted areas. Ultimately, the information presented on the "Services" page underscores PPBI's commitment to empowering local communities through specialized training and dedicated support, thereby promoting sustainable tourism growth.

Portfolio

The "Portfolio" page offers comprehensive information about all activities conducted by PPBI, presented in audio-visual formats and detailed articles. Initially, it showcases various projects and initiatives through engaging multimedia content, providing an immersive overview of PPBI's efforts. Additionally, accompanying articles offer in-depth narratives and analyses of each activity, highlighting objectives, outcomes, and impacts. This multifaceted approach not only documents the organization's achievements but also serves as an informative resource for stakeholders and potential partners. Ultimately, the "Portfolio" page effectively communicates the breadth and depth of PPBI's work, reinforcing its commitment to sustainable tourism development and community empowerment.

Contact

The "Contact" page provides essential information about PPBI's headquarters and activity centers, facilitating formal contracts and partnership engagements for stakeholders. Initially, it details the primary office location, complete with address, phone number, and email contact, ensuring clear and accessible communication channels. Additionally, the page includes a map and directions to the main office, aiding visitors in locating the premises with ease. By offering comprehensive contact information, this page enhances transparency and accessibility, thereby fostering stronger formal relationships and partnerships. Ultimately, the "Contact" page is a crucial resource for stakeholders seeking to establish and maintain professional connections with PPBI.

Table 1 shows the data requirement of PPBI. Based on the information, a comprehensive database and monitoring system must be designed to ensure consistent website management by all team members. Initially, the database should be structured to efficiently store and retrieve content, user data, and activity logs, facilitating streamlined operations. Additionally, an integrated monitoring system will track and report website performance and team activities, ensuring adherence

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to management protocols and timely updates. Implementing such a robust infrastructure significantly enhances operational consistency and accountability. Ultimately, this strategic approach fosters a cohesive and efficient website management process, aligning with organizational goals and standards.

2.2. User Design

During the user design stage, a use case diagram is developed to delineate actors' roles in executing various functions within the project management system. Initially, this diagram identifies the primary actors, such as project managers, team members, and administrators, and outlines their specific interactions with the system. Additionally, it details the functional requirements and workflows, ensuring clarity in role responsibilities and system operations. By visually representing user interactions, the use case diagram facilitates a deeper understanding of system dynamics and enhances design accuracy. Ultimately, this approach ensures that all user needs and interactions are effectively integrated into the project management system, promoting efficiency and coherence in its implementation.

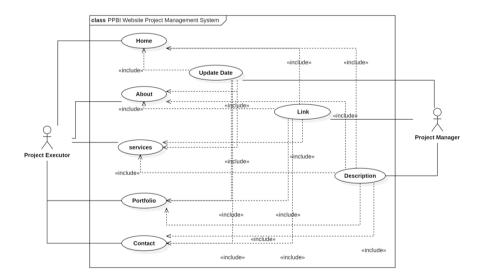


Figure 2. Use Case of Project Management System for PPBI Website

Figure 2 shows the use case of the project management system of the PPBI website. Generally, the use case for the project management system application for managing the PPBI website involves monitoring the performance of project executors in executing CRUD operations on data and information in line with PPBI activities. Initially, this system tracks content creation, reading, updating, and

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deletion, ensuring that all actions align with organizational standards and objectives. Additionally, it provides real-time performance metrics, allowing for effective oversight and timely interventions when necessary. This comprehensive monitoring mechanism significantly enhances the accountability and efficiency of project execution. Ultimately, the system ensures that all PPBI website management activities are conducted systematically and transparently, promoting consistency and reliability in content management.

2.3. Construction

In the construction phase, the use case diagram is followed by a database design tailored to monitoring project executors' performance. Initially, this involves translating the identified use cases into specific data requirements and relational schemas, ensuring that the database structure supports all necessary CRUD operations. Additionally, the database design incorporates performance metrics and tracking mechanisms to provide comprehensive oversight of project activities. By aligning the database architecture with the functional requirements outlined in the use case diagram, the system enhances the accuracy and efficiency of performance monitoring. This meticulous approach ensures the database effectively supports the project management system's objectives, facilitating consistent and reliable management processes.

Table 1. Database Design for PPBI Website Project Management

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Table 1 shows the database design for the PPBI Website management project. Based on the database design, it is evident that each table (Home, About, Services, Portfolio, Contact) is structured to store information specific to different sections of a project management system website. Each table includes a primary key (Home_ID, About_ID, Services_ID, Portfolio_ID, Contact_ID) automatically generated as a unique identifier for each record, ensuring data integrity. Additionally, the tables feature an Update_Date field, a DATE type that logs the last update, and a Website_Link field, a VARCHAR2 type limited to 255 characters, which holds the URL link associated with the page. The Description field, a CLOB (Character Large Object), accommodates extensive details or descriptions pertinent to the page content. This systematic and efficient database design facilitates organized and comprehensive management of website sections, enhancing data retrieval and maintenance processes. Ultimately, such a design ensures robust data management and supports the overall functionality of the project management system.

2.4. Cutover

During the cutover stage, the use case and database design are implemented using Oracle APEX to ensure usability for project executors. Initially, this involves deploying the database schema and configuring the application to align with the predefined use cases, facilitating seamless data interaction and task execution. Oracle APEX's user-friendly interface and robust functionalities also enhance project members' system utilization efficiency and effectiveness. By leveraging this application, the transition from design to operational deployment is streamlined, ensuring the system meets practical requirements. Ultimately, this approach ensures that the project management system is functional and accessible, supporting the efficient management of project activities.



Figure 3. Interface of the PPBI Website Management Project

Figure 3 shows the interface of the PPBI Website Management Project. The application's performance evaluation is conducted through the administration page, which provides insights into error logs and the activities of project executors.

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Initially, the administration page captures and displays comprehensive error logs, promptly identifying and resolving system issues. It also tracks user activities, offering a detailed view of managing and executing project tasks. This functionality is critical in ensuring that all operations adhere to established protocols and performance standards. By facilitating real-time monitoring and detailed analysis, the administration page significantly enhances the overall efficiency and reliability of the project management system. Ultimately, this evaluative capability ensures continuous improvement and optimal application performance.

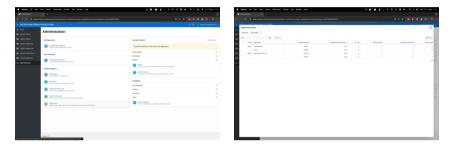


Figure 4. Evaluation of The Page and User Performance

The project manager's evaluation of project executor performance is facilitated through the comprehensive assessment of various metrics accessible via the performance page, error log, and top user analytics. By examining these key indicators, project managers efficiently gauge the efficacy and efficiency of project execution. The performance page provides insights into task completion rates, resource allocation, and adherence to timelines, enabling informed decision-making regarding project progress. The error log is also crucial for identifying and rectifying any deviations from project requirements or unexpected issues encountered during execution. Furthermore, analyzing top user interactions offers valuable insights into user preferences and satisfaction levels, facilitating iterative improvements to enhance project outcomes. This multi-faceted approach to evaluation empowers project managers to optimize project performance and achieve desired objectives effectively.

3. RESULTS AND DISCUSSION

3.1 System Design

The main page of the monitoring system for the PPBI project management website is designed based on the planned website sections, including Home, About, Services, Project, Portfolio, and Contact. Initially, this design ensures that each website section is systematically represented, providing a cohesive overview of all critical areas. Additionally, it facilitates efficient navigation and monitoring by aligning the system's structure with the website's layout, enhancing usability for

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project managers. This approach not only improves the accessibility of essential information but also supports streamlined project oversight and management. Ultimately, the design of the monitoring system's main page promotes an organized and user-friendly interface, contributing to the effective administration of the PPBI website.

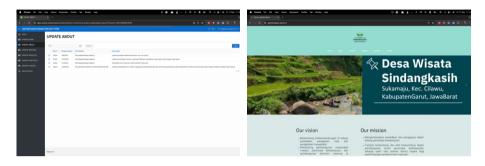


Figure 5. Monitoring System for Content Management of PPBI Website

Figure 5 shows that the process by which project managers evaluate the performance of project executors managing website content is facilitated through the systematic organization of data by date, name, link, and description. This structured approach enables project managers to track the progress and quality of content management activities efficiently. By accessing information such as the date of content updates, the names of responsible individuals, corresponding links, and relevant descriptions, project managers comprehensively understand the workflow and identify areas for improvement or commendation. Consequently, this systematic evaluation framework empowers project managers to make informed decisions and optimize project outcomes effectively.

The importance of a project management system for website content management cannot be overstated. Such a system provides a structured framework for organizing, planning, and executing content creation, publication, and maintenance tasks. By leveraging project management methodologies tailored to the specific needs of website content management, organizations ensure efficient collaboration among team members, timely completion of tasks, and adherence to project timelines. Moreover, a robust project management system facilitates effective communication and coordination, allowing stakeholders to stay informed about project progress and changes in real-time. Consequently, implementing a project management system for website content management is essential for optimizing efficiency, enhancing productivity, and achieving desired outcomes in today's digital landscape.

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3.2 Discussion

Content management plays a pivotal role as a communication medium among formal institutions; hence, content must be visually appealing and contain relevant information tailored to the target audience's needs [27]. Formal institutions effectively convey their messages and engage with their intended audience by strategically crafting content that captures attention through visual elements and delivers pertinent information [28]. This approach ensures that the content attracts and retains the target market's interest, facilitating meaningful interactions and fostering productive relationships between institutions and their stakeholders [29]. Consequently, effective content management is a cornerstone for successful communication and collaboration within formal settings, driving organizational objectives and enhancing overall effectiveness.

The management of project and portfolio content is a persuasive tool for conveying the history of training and mentoring conducted by PPBI. PPBI effectively showcases its expertise and track record in providing comprehensive training and guidance through meticulous arrangement and presentation of past endeavors. This structured approach instills confidence in the target market regarding PPBI's capabilities and reinforces its reputation as a reliable provider of educational services. PPBI establishes credibility and differentiates itself in a competitive market by highlighting previous successes and accomplishments. Consequently, strategic content management of project and portfolio information is a compelling testament to PPBI's proficiency and commitment to facilitating the development and growth of its clientele.

Effective management of PPBI's website content necessitates a professional approach guided by project management principles to ensure consistency in providing information aligned with stakeholders' needs. PPBI establishes clear objectives, timelines, and accountability structures for content creation and updates by implementing project management methodologies. This systematic approach facilitates efficient collaboration among stakeholders, including instructors, administrators, and students, to streamline content development processes and maintain relevance and accuracy. Furthermore, adherence to project management practices enables PPBI to adapt to evolving stakeholder requirements and industry trends, enhancing the website's effectiveness as a communication and educational platform. Consequently, professional content management through a project management lens empowers PPBI to deliver timely and valuable information that meets the diverse needs of its stakeholders, ultimately contributing to the institution's success and impact.

Effective website management necessitates the expertise of professionals in typography, audio and visual design, and proficient copywriting. These specialized skill sets are instrumental in crafting an engaging and visually appealing online

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presence that captivates users and communicates messages effectively [30], [31]. Typography experts ensure optimal readability and visual hierarchy, enhancing user experience and facilitating information consumption [32]. Additionally, audio and visual designers are crucial in creating multimedia content that reinforces branding and engages audiences on multiple sensory levels [33]. Furthermore, skilled copywriters craft compelling, persuasive text that resonates with the target audience, driving engagement and achieving desired outcomes [34]. Collectively, the collaboration of these experts ensures the seamless integration of design and content elements, elevating the website's impact and fulfilling its intended objectives.

CONCLUSION

In conclusion, effective website management relies heavily on the expertise of professionals in typography, audio and visual design, copywriting, and the implementation of Rapid Application Development (RAD) frameworks. RAD methodologies facilitate agile and iterative development processes, allowing for quick prototyping, feedback integration, and rapid deployment of website updates. By combining RAD principles with the skills of typography, design, and copywriting specialists, organizations create engaging online experiences that capture users' attention, convey messages clearly, and drive desired actions. As technology evolves, the demand for proficient website management professionals adept at implementing RAD frameworks will only increase, highlighting the importance of investing in talent with diverse and specialized skill sets. Ultimately, the collaboration of typography, design, copywriting, and RAD experts is essential for achieving a cohesive and impactful online presence that meets users' and stakeholders' needs and expectations.

REFERENCES

- [1] Sahidi and Z. Mutaqin, "Sistem Informasi Pariwisata Desa Senaru Berbasis Website Menggunakan Metode RAD," J. Comtechno Comput. Technol., vol. 1, no. 1, pp. 1–5, 2023.
- D. Sihombing, "Development of construction project cost budget [2] application using rapid application development method," *J. Mantik*, vol. 7, no. 3, pp. 2685–4236, 2023.
- [3] D. Jean and C. Sihombing, "Development of Construction Inventory Application with Rapid Application Development Method," J. Inform. Univ. Pamulang, vol. 8, no. 3, pp. 444–450, 2023.
- [4] P. Titis, H. juli Christanto, and Y. A. Singgalen, "Analysis and Design of Marine Tourism Information System Using Rapid Application Development," J. Inf. Syst. Informatics, vol. 6, no. 1, pp. 83-102, 2024, doi: 10.51519/journalisi.v6i1.645.
- Y. A. Singgalen, "Analysis and design of Hutanku application using Rapid [5]

Vol. 6, No. 2, June 2024

p-ISSN: 2656-5935 http://journal-isi.org/index.php/isi e-ISSN: 2656-4882

- application development," J. Inf. Syst. Informatics, vol. 6, no. 1, pp. 118–135, 2024, doi: 10.51519/journalisi.v6i1.646.
- [6] D. Umagapi, A. Ambarita, and N. F. Kharie, "Sistem Informasi Geografis Pemetaan Tanaman Pangan di Kabupaten Pulau Morotai," *J. Ilm. Ilk. Ilmu Komput. Inform.*, vol. 3, no. 1, pp. 12–20, 2020, doi: 10.47324/ilkominfo.v3i1.39.
- [7] E. K. Suni, D. Jean, C. Sihombing, D. Jean, and C. Sihombing, "Analysis and development of SIPEMAS: community complaint applications using the rapid application development method," *J. Mantik*, vol. 7, no. 3, pp. 2694–2702, 2023.
- [8] Y. D. Ko and B. D. Song, "Application of UAVs for tourism security and safety," *Asia Pacific J. Mark. Logist.*, vol. 33, no. 8, pp. 1829–1843, Jan. 2021, doi: 10.1108/APJML-07-2020-0476.
- [9] J.-S. Horng, C.-H. Liu, S.-F. Chou, T.-Y. Yu, and Y.-L. Ng, "Modelling competitive advantage using the concepts of big data and social media to develop a sustainability strategy," *Tour. Rev.*, vol. 78, no. 3, pp. 712–725, Jan. 2023, doi: 10.1108/TR-01-2022-0012.
- [10] D. K. X. Do and J. L. H. Bowden, "Negative customer engagement behaviour in a service context," *Serv. Ind. J.*, vol. 0, no. 0, pp. 1–24, 2023, doi: 10.1080/02642069.2022.2159945.
- [11] A. Rydzik and C. S. Kissoon, "Decent work and tourism workers in the age of intelligent automation and digital surveillance," *J. Sustain. Tour.*, vol. 30, no. 12, pp. 2860–2877, 2022, doi: 10.1080/09669582.2021.1928680.
- [12] S. Jokar, P. Shojaei, K. Askarifar, and A. Haqbin, "Investigating social risks of construction projects in historic tourism sites in urban districts of developing countries: social network analysis approach," *Int. J. Contemp. Hosp. Manag.*, vol. 36, no. 2, pp. 358–378, Jan. 2024, doi: 10.1108/IJCHM-03-2022-0282.
- [13] Y. Choe, J. Lee, S. hee Choi, and S. E. Hahn, "Destination identity and image of Macao: Construal, projection, and perception," *J. China Tour. Res.*, vol. 00, no. 00, pp. 1–25, 2023, doi: 10.1080/19388160.2023.2189196.
- [14] P. Zaragoza-Sáez, B. Marco-Lajara, and M. Ubeda-Garcia, "Digital skills in tourism. A study from the Next Tourism Generation (NTG) Alliance," *Meas. Bus. Excell.*, vol. 26, no. 1, pp. 106–121, Jan. 2022, doi: 10.1108/MBE-11-2020-0151.
- [15] S. Gössling, "Technology, ICT and tourism: from big data to the big picture," *J. Sustain. Tour.*, vol. 29, no. 5, pp. 849–858, 2020, doi: 10.1080/09669582.2020.1865387.
- [16] F. Hanum, D. Suganda, B. Muljana, C. Endyana, and H. Rachmat, "Konsep Smart Tourism sebagai Implementasi Digitalitasi di Bidang Pariwisata," *J. Sustain. Tour. Res.*, vol. 3, no. 1, pp. 14–17, 2020.
- [17] N. Akhtar *et al.*, "Post-covid 19 tourism: Will digital tourism replace mass tourism?," *Sustain.*, vol. 13, no. 10, pp. 1–18, 2021, doi: 10.3390/su13105352.

Vol. 6, No. 1, March 2024

p-ISSN: 2656-5935 http://journal-isi.org/index.php/isi e-ISSN: 2656-4882

- M. L. F. Pompeia, "Assessing the suitability of a single brand of MSMEs in [18] the hospitality sector to boost sustainable development: the case of Mauritius," Worldw. Hosp. Tour. Themes, vol. 13, no. 1, pp. 109–123, Jan. 2021, doi: 10.1108/WHATT-08-2020-0094.
- [19] A. Prambayun, D. Oktaviany, and Y. F. Achmad, "Analisis Potensi Virtual reality sebagai Strategi Pemasaran Pariwisata Kota Pagar Alam," JATISI (Jurnal Tek. Inform. dan Sist. Informasi), vol. 9, no. 3, pp. 2641–2651, 2022, doi: 10.35957/jatisi.v9i3.1341.
- J. young Kim and J. Hwang, "Who is an evangelist? Food tourists' positive [20] and negative eWOM behavior," Int. J. Contemp. Hosp. Manag., vol. 34, no. 2, pp. 555–577, Jan. 2022, doi: 10.1108/IJCHM-06-2021-0707.
- [21] D. P. Sari, "Model Pemasaran Pada Destinasi Wisata Rural Dan Wisata Urban," J. Hosp. dan Pariwisata, vol. 8, no. 2, pp. 134-137, 2022, doi: 10.30813/jhp.v8i2.3813.
- C. Zhu, L. H. N. Fong, C. M. Hall, S. She, and S. Naderi Koupaei, [22] "Understanding a virtual heritage site through the lens of telepresence and virtual destination image," J. Herit. Tour., pp. 1-14, 2023, doi: 10.1080/1743873X.2023.2289949.
- [23] X. Chen and Z. Chen, "Impact of video content on gastronomic image construction and tourists' intention to (re-) visit Macao," Tour. Recreat. Res., vol. 0, no. 0, pp. 1–15, 2023, doi: 10.1080/02508281.2023.2296812.
- [24] S. Seyfi, C. M. Hall, J. Saarinen, and T. Vo-Thanh, "Understanding drivers and barriers affecting tourists' engagement in digitally mediated prosustainability boycotts," J. Sustain. Tour., vol. 31, no. 11, pp. 2526–2545, 2023, doi: 10.1080/09669582.2021.2013489.
- C. H. Oh, "Examining effectiveness of online and offline channel [25] integration," J. Bus. Ind. Mark., vol. 37, no. 1, pp. 225-240, Jan. 2022, doi: 10.1108/JBIM-02-2021-0130.
- [26] K. Ponsree, T. Phongpaew, and P. Naruetharadhol, "Study of Thai Youths in the Northeastern Region of Thailand on the Effectiveness of Digital Payment Behavior," J. Promot. Manag., vol. 29, no. 4, pp. 569–605, 2023, doi: 10.1080/10496491.2022.2163035.
- [27] J. Seiffert-Brockmann, S. Einwiller, N. Ninova-Solovykh, and D. Wolfgruber, "Agile Content Management: Strategic Communication in Corporate Newsrooms," Int. J. Strateg. Commun., vol. 15, no. 2, pp. 126–143, 2021, doi: 10.1080/1553118X.2021.1910270.
- [28] C. de las Heras-Pedrosa, P. P. Iglesias-Sánchez, C. Jambrino-Maldonado, P. López-Delgado, and E. Galarza-Fernández, "Museum communication management in digital ecosystems. Impact of COVID-19 on digital strategy," Museum Manag. Curatorsh., vol. 38, no. 5, pp. 548–570, 2023, doi: 10.1080/09647775.2022.2111335.
- G. A. Putri and D. Setiawan, "Examining the influence of foreign [29] ownership, company website on firm performance: Evidence from Cogent Bus. Manag., vol. 10, no. Indonesia," 2, 2023,

Vol. 6, No. 2, June 2024

p-ISSN: 2656-5935 http://journal-isi.org/index.php/isi e-ISSN: 2656-4882

- 10.1080/23311975.2023.2248759.
- [30] J. Zheng *et al.*, "Exploring the usability, user experience and usefulness of a supportive website for people with dementia and carers," *Disabil. Rehabil. Assist. Technol.*, vol. 19, no. 4, pp. 1369–1381, 2023, doi: 10.1080/17483107.2023.2180546.
- [31] S. A. Qalati, E. G. Vela, W. Li, S. A. Dakhan, T. T. Hong Thuy, and S. H. Merani, "Effects of perceived service quality, website quality, and reputation on purchase intention: The mediating and moderating roles of trust and perceived risk in online shopping," *Cogent Bus. Manag.*, vol. 8, no. 1, 2021, doi: 10.1080/23311975.2020.1869363.
- [32] B. D. Sawyer, J. Dobres, N. Chahine, and B. Reimer, "The great typography bake-off: comparing legibility at-a-glance," *Ergonomics*, vol. 63, no. 4, pp. 391–398, 2020, doi: 10.1080/00140139.2020.1714748.
- [33] W. Luo, I. R. Berson, M. J. Berson, and S. Han, "Young chinese children's remote peer interactions and social competence development during the COVID-19 pandemic," *J. Res. Technol. Educ.*, vol. 54, no. S1, pp. S48–S64, 2022, doi: 10.1080/15391523.2021.1906361.
- [34] Y.-F. Kuo, J.-R. Hou, and Y.-H. Hsieh, "The advertising communication effectiveness of using netizen language code-switching in Facebook ads," *Internet Res.*, vol. 31, no. 5, pp. 1940–1962, Jan. 2021, doi: 10.1108/INTR-04-2020-0231.