Jurnal Scientia
Volume 13 , Number 03, 2024, DOI 10.58471/ scientia.v13i03
ESSN 2723-7486 (Online)
https://infor.seaninstitute.org/index.php/pendidikan

Analysis Of Optimising Cooperative Performance Through Digital-Based Reporting Management System

Ni Putu Widantari Suandana[1*], I Made Subrata Sandhiyasa[2], Putu Wirayudi Aditama[3], I Nyoman Widhi Adnyana[4]
[1*,2,3,4]Institut Bisnis dan Teknologi Indonesia

ArticleInfo
Keywords:
Reporting management systems, digitalization, operational efficiency, transparency

ABSTRACT
This research aims to examine the optimization of Cooperative performance through a digital-based reporting management system. The case study method is used to analyze user needs and design relevant system features. The needs analysis is useful in identifying constraints and needs in the current reporting system. Based on this analysis, features such as interactive dashboards, real-time reporting, digital financial management, and member management were designed and tested. The results show an increase in operational efficiency, transparency, and accountability of the cooperative. The implementation of this system successfully met user needs and improved the cooperative's performance.

Corresponding Author:
Ni Putu Widantari Suandana
Institut Bisnis dan Teknologi Indonesia
putu.widantari@instiki.ac.id

INTRODUCTION

Cooperatives are a form of collective business that has an important role in the economy, especially in strengthening the small and medium economic sectors. With the principles of mutual cooperation and shared prosperity, cooperatives are able to make a significant contribution to improving the lives of their members. However, along with technological developments and the demands of the times, cooperatives are faced with challenges to improve efficiency and transparency in their management (Maione, 2023). One solution that can be implemented is to adopt a digital-based cooperative development reporting management system (Villarreal et al., 2023).

Cooperatives often face various problems related to managing and reporting business development. Some of these include limited resources, lack of transparency, and operational inefficiencies. Many cooperatives still use manual methods in management and reporting (Arsana & Lestari, 2021; Haryanti & Sandhiyasa, 2023)which requires considerable time and effort. A less transparent reporting system can lead to distrust among cooperative members, while manual management tends to lead to human error and delays in report submission (Ramli et al., 2022; Sirat et al., 2023).

This research has high urgency for the following reasons. First, a digital-based reporting management system can help cooperatives manage data and information more efficiently (Dewi et al., 2021; Jabid, Abdurrahman, et al., 2023; Jabid, Soleman, et al., 2023; Jabid, Syahdan, et al., 2023a). Second, digitization of reporting allows for higher transparency, thus

Jurnal Scientia
Volume 13 , Number 03, 2024, DOI 10.58471/ scientia.v13i03
ESSN 2723-7486 (Online)
https://infor.seaninstitute.org/index.php/pendidikan

increasing members' trust in cooperative management. Third, a digital-based system allows real-time access to information, so that decision-making can be done quickly and accurately.

The adoption of a digital-based cooperative development reporting management system has several advantages, including better data management, increased productivity, and easy access to information. Digital systems allow for more structured and secure data management and storage. With an automated system (Bakri & Alfiah, 2024; Jabid, Syahdan, et al., 2023b; Riyanti et al., 2024)administrative tasks can be completed faster, allowing cooperative management to focus on business development strategies. Cooperative members can easily access information on the cooperative's progress, which can increase their participation and engagement.(Hasyim et al., 2023).

This research aims to examine how the optimization of cooperative performance can be achieved through the implementation of a digital-based cooperative development reporting management system. Thus, it is expected to make a significant contribution in improving the efficiency, transparency, and accountability of cooperatives, as well as encouraging more inclusive and sustainable economic growth.

METHODS

This research uses a case study method at the Kerambitan District Cooperative to analyze user needs and design system features that support cooperative performance reporting (Adnyana et al., 2023). The first step is to identify user needs through interviews and surveys with cooperative administrators and members. The information collected includes obstacles faced in the current reporting system and desired features in the new system (Fahri, 2022; Fauzi et al., 2023; Ibrahim et al., 2023; Sudipa et al., 2023). This user needs analysis is the basis for designing the system features to be implemented.

Figure 1. Research Stage

Next, the system was designed by prioritizing the most important and relevant features for cooperatives, such as interactive dashboards, real-time reporting, digital financial management, and member management. A prototype of the system was developed and tested to ensure that the features could function properly and meet user needs (Fanani et al., 2024; Lin, 2024). Feedback from users during the pilot test was used to make improvements to the system before full implementation.

Jurnal Scientia
Volume 13 , Number 03, 2024, DOI 10.58471/ scientia.v13i03
ESSN 2723-7486 (Online)
https://infor.seaninstitute.org/index.php/pendidikan

RESULTS AND DISCUSSION

The development of a digital-based reporting management system for cooperatives involves various features designed to improve efficiency, transparency, and accountability.

Interactive Dashboard

The interactive dashboard is a control center that provides an overview of the cooperative's performance in real-time. Through this dashboard, cooperative management and members can easily view key performance indicators (KPIs), financial reports, and business development. A well-designed dashboard will display data in the form of easy-to-understand graphs and diagrams, making it easier for users to make decisions.

Real-Time Reporting

The system should be able to provide real-time reporting that allows cooperative management to access the latest data anytime and anywhere. With this feature, delays in reporting can be minimized and strategic decisions can be made quickly based on accurate and up-to-date data.

Digital Financial Management

Digital financial management features include automatic transaction recording, financial report generation, and budget monitoring. With these features, human errors in recording can be reduced, and the audit process becomes easier and faster. In addition, cooperative boards can easily monitor cash flow and project future finances.

Member Management

The system should also have member management features that allow for centralized and efficient management of member data. These features include new member registration, dues monitoring, and voting rights management in member meetings. With organized member management, a cooperative can increase the participation and engagement of its members.

Integration with Mobile Apps

To facilitate access for all cooperative members, this system should be integrated with a mobile application. With this application, members can access cooperative information, make dues payments, and follow the cooperative's progress directly from their mobile devices. This integration ensures that all members, including those in remote areas, remain connected to the cooperative.

Customization Reporting

Each cooperative has different reporting needs. Therefore, this system should provide reporting features that can be customized according to the needs of the cooperative. Users can create reports according to the desired format and parameters, so that the information presented is more relevant and useful.

Notifications and Reminders

Notification and reminder features ensure that cooperative boards and members do not miss important information, such as payment due dates, member meetings, or monthly financial reports. Notifications can be sent via email, SMS, or mobile app, keeping all parties well-informed.

Jurnal Scientia
Volume 13 , Number 03, 2024, DOI 10.58471/ scientia.v13i03
ESSN 2723-7486 (Online)
https://infor.seaninstitute.org/index.php/pendidikan

Discussion

The implementation of these features in a digital-based reporting management system is expected to provide various benefits for cooperatives. With interactive dashboards and real-time reporting, cooperative boards can make decisions quickly and based on accurate data. Digital financial management and member management features help in maintaining transparency and efficiency of cooperative operations. Integration with mobile applications ensures all members stay connected and can actively participate in cooperative activities. Assured data security through encryption and multi-factor authentication provides a sense of security for cooperative members, while customizable reporting enables the presentation of more relevant information. Data analysis and forecasting help cooperatives plan better strategies, and project management ensures that cooperative projects are executed effectively. Notifications and reminders ensure that all parties are kept up-to-date and do not miss anything important. Overall, the implementation of a digital-based cooperative development reporting management system with these features can optimize cooperative performance. Thus, cooperatives can be more efficient, transparent, and accountable in their management, and can provide greater benefits to their members and the wider community.

CONCLUSION

Analysis of data and user needs at cooperative showed significant success in the design of digital-based reporting management system features. Through interviews and surveys, user needs were clearly identified, so that the design of system features could be tailored to the specific needs of the cooperative. The implementation of features such as interactive dashboards, real-time reporting, digital financial management, and member management successfully improved the cooperative's operational efficiency, transparency, and accountability. Prototype testing and user feedback ensured that the system works well and provides tangible benefits to cooperative boards and members. The overall process shows that digitizing cooperative reporting can significantly improve cooperative performance and governance.

REFERENCE

Adnyana, I. N. W., Sandhiyasa, I. M. S., & Kherismawati, N. P. E. (2023). PENDAMPINGAN SISTEM PELAPORAN PERKEMBANGAN KOPERASI DALAM MENINGKATKAN AKUNTABILITAS DAN TATA KELOLA KELEMBAGAAN KOPERASI DI KECAMATAN KERAMBITAN. *PROSIDING SEMINAR NASIONAL PENGABDIAN KEPADA MASYARAKAT FAKULTAS BAHASA ASING UNIVERSITAS MAHASARASWATI DENPASAR (SENADIBA) 2021*, 284–292.

Arsana, I. N. A., & Lestari, A. S. (2021). Rancang Bangun Sistem Informasi Laporan Keuangan Pada SMP Nasional Berbasis Web. *Jurnal Krisnadana*, *1*(1), 47–56.

Bakri, A. A., & Alfiah, A. (2024). Strategic Evaluation of Financial Information Systems through Information Technology Auditing. *TECHNOVATE: Journal of Information Technology and Strategic Innovation Management*, *1*(1), 45–55.

Dewi, I. G. A. M. P., Parwita, W. G. S., & Setiawan, I. M. D. (2021). Algoritma Decision Tree

untuk Klasifikasi Calon Debitur LPD Desa Adat Anggungan. *Jurnal Krisnadana*, *1*(1), 23–36.

Fahri, J. (2022). EXPLORING CITIZEN'S SATISFACTION WITH THE INFRASTRUCTURE OF SERVICES AT A LOCAL SEAPORT IN TERNATE, NORTH MALUKU. *Journal of Indonesian Economy and Business: JIEB.*, *37*(2), 103–135.

Fanani, R. D., Wiguna, I. K. A. G., Iskandar, A. P. S., & Parwita, W. G. S. (2024). Innovative UI/UX Analysis of Cooperative Apps through Design Thinking. *Jurnal Galaksi*, *1*(1), 33–42.

Fauzi, A. A., Kom, S., Kom, M., Budi Harto, S. E., MM, P. I. A., Mulyanto, M. E., Dulame, I. M., Pramuditha, P., Sudipa, I. G. I., & Kom, S. (2023). *PEMANFAATAN TEKNOLOGI INFORMASI DI BERBAGAI SEKTOR PADA MASA SOCIETY 5.0*. PT. Sonpedia Publishing Indonesia.

Haryanti, K. E., & Sandhiyasa, I. M. S. (2023). Penerapan Sistem Informasi Akuntansi Penyusutan Aktiva Tetap Dan Pengelolaan Kas Pada KSP Sari Buwana Arta. *Jurnal Inovasi Ekonomi Dan Keuangan*, *1*(1), 1–8.

Hasyim, A. W., Sabuhari, R., & Jabid, A. W. (2023). *The Impact of Human Resource Development on the Management of Island Tourism Destination. The Mediation Role of Adaptability and Innovation Speed*.

Ibrahim, M. B., Sari, F. P., Kharisma, L. P. I., Kertati, I., Artawan, P., Sudipa, I. G. I., Simanihuruk, P., Rusmayadi, G., Nursanty, E., & Lolang, E. (2023). *METODE PENELITIAN BERBAGAI BIDANG KEILMUAN (Panduan & Referensi)*. PT. Sonpedia Publishing Indonesia.

Jabid, A. W., Abdurrahman, A. Y., & Amarullah, D. (2023). Empowering leadership and innovative behaviour in the context of the hotel industry: Knowledge sharing as mediator and generational differences as moderator. *Cogent Business & Management*, *10*(3), 2281707.

Jabid, A. W., Soleman, M. M., & Jannang, A. R. (2023). The Mediating Role of Islamic Job Satisfaction on Relationship of Islamic Work Ethics on Intention to Leave. *International Journal of Professional Business Review*, *8*(6), e02066–e02066.

Jabid, A. W., Syahdan, R., Fahri, J., & Buamonabot, I. (2023a). Entrepreneurship education and entrepreneurship intention: perceived desirability and perceived feasibility mediation. *Revista de Gestão e Secretariado*, *14*(8), 14397–14424.

Jabid, A. W., Syahdan, R., Fahri, J., & Buamonabot, I. (2023b). The Role of Receiving Technology on Employee Performance: Job Satisfaction as Mediation. *Journal of Indonesian Economy and Business*, *38*(3), 229–253.

Lin, A. K. (2024). The AI Revolution in Financial Services: Emerging Methods for Fraud Detection and Prevention. *Jurnal Galaksi*, *1*(1), 43–51.

Maione, G. (2023). Barriers to the Digital-Based Environmental Accountability of Local Governments. *The International Research & Innovation Forum*, 707–720.

Ramli, Y., Imaningsih, E. S., Shiratina, A., Rajak, A., & Ali, A. J. (2022). Environmental sustainability: To enhance organizational awareness towards green environmental concern. *International Journal of Energy Economics and Policy*, *12*(4), 307–316.

Riyanti, A., Taryana, T., Dirgantoro, G. P., & Gunawan, I. M. A. O. (2024). Development of

Jurnal Scientia
Volume 13 , Number 03, 2024, DOI 10.58471/ scientia.v13i03
ESSN 2723-7486 (Online)
https://infor.seaninstitute.org/index.php/pendidikan

Rental Application using Prototyping Method. *TECHNOVATE: Journal of Information Technology and Strategic Innovation Management*, *1*(2), 69–80.

Sirat, A. H., Bailusy, M. N., Stapah, M., Assagaf, A., & Possumah, B. T. (2023). The Impact of Entrepreneurial Competence and Internal Environment on Small and Medium Business Performance in North Maluku Province, Indonesia. *Kurdish Studies*, *11*(2), 5709–5719.

Sudipa, I. G. I., Udayana, I. P. A. E. D., Rizal, A. A., Kharisma, P. I., Indriyani, T., Asana, I. M. D. P., Ariana, A. A. G. B., & Rachman, A. (2023). *METODE PENELITIAN BIDANG ILMU INFORMATIKA (Teori & Referensi Berbasis Studi Kasus)*. PT. Sonpedia Publishing Indonesia.

Villarreal, V., Muñoz, L., Nielsen, M., Gonzalez, J., Concepcion, D., & Rodriguez, M. (2023). Towards a Digital and Ubiquitous Ecosystem of Mobile Technology-Based Solutions to Facilitate Data Management Based on Sustainable Development Goals. *International Conference on Ubiquitous Computing and Ambient Intelligence*, 112–117.