



Enterprise Systems And Resource Planning To Assit Msmes

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Abstract: *This service is about system utilization (enterprise resource planning) in micro, small and medium enterprises (MSMEs) in Indonesia. Applying enterprise resource planning to MSMES can help increase flexibility and integrate entire business processes, such as inventory management, finance, production, and sales. However, the implementation of enterprise resource planning requires mature preparation, including proper selection of suppliers, optimization of internal teams, and preparation of human resources. The research methodology used is a participatory action learning system with the active participation of MSMES stakeholders and enterprise resource planning providers. The implementation process of the ENERPRISE Resource Planning system in MSMES includes the phases of meetings, planning, system design, training, and support, as well as the use of the system in business operations. The implementation steps of the Enterprise Resource Planning system in MSMES include business information documents, functional requirements documents, user acceptance testing, training, and go-live.*

Abstrak

Pengabdian ini tentang pemanfaatan sistem (enterprise resource Planning) pada usaha mikro, kecil, dan menengah (UMKM) di Indonesia. Menerapkan perencanaan sumber daya perusahaan pada UMKM dapat membantu meningkatkan fleksibilitas dan mengintegrasikan seluruh proses bisnis, seperti manajemen inventaris, keuangan, produksi, dan penjualan. Namun penerapan perencanaan sumber daya perusahaan memerlukan persiapan yang matang, antara lain pemilihan pemasok yang tepat, optimalisasi tim internal, dan penyiapan sumber daya manusia. Metodologi penelitian yang digunakan adalah sistem pembelajaran aksi partisipatif dengan partisipasi aktif pemangku kepentingan UMKM dan penyedia perencanaan sumber daya usaha. Proses implementasi sistem Resource Planning ENERPRISE pada UMKM meliputi tahapan pertemuan, perencanaan, perancangan sistem, pelatihan dan dukungan, serta penggunaan sistem dalam operasional bisnis. Langkah implementasi sistem Enterprise Resource Planning pada UMKM meliputi dokumen informasi bisnis, dokumen persyaratan fungsional, pengujian penerimaan pengguna, pelatihan, dan go-live.

Kata Kunci: UMKM, Bisnis, Pelatihan, Sistem Perencanaan Sumber Daya Perusahaan

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INTRODUCTION

MSMES is a small and medium-sized micro enterprise that operates in all kinds of enterprises. MSMES becoming one of the most powerful economies in a country has proved by 2023 to contribute 60% of the country's GDP and has employed 114.7 million people. There are 65.4 million MSMES spread across Indonesia. A medium-sized enterprise is an independent productive economic enterprise carried out by an individual or business entity that is not a subsidiary or branch of a company owned, controlled, or becoming a direct or indirect part of a small enterprise or large enterprise with a net amount of wealth or annual sales income. It has an asset criterion of between 60 million and 10 billion and a turnover of between 2.5 billion and 50 billion.

In its business process, MSMES can increase its flexibility by using a system based on Enterprise Resource Planning (Enterprise Resource Planning) so that every business process is integrated. According to Saepudin (2022) Enterprise Resource Planning also has benefits in running complex corporate business by providing comprehensive information for corporate decision-making. However, implementing Enterprise Resource Planning on MSMES is not easy and requires careful preparation. There are a number of factors to consider before deciding to adopt Enterprise Resource Planning, including choosing vendors that provide the ENTERPRISE Resource Planning system, optimizing the internal team, and ensuring human resource readiness.

Based on the observations above, this journal discusses providing support to MSMES perpetrators to use the Enterprise Resource Planning system with the aim of maximizing the running business processes. This journal focuses on providing instruction on how to use the ENTERPRISE RESOURCE PLANNING modules according to the course that needs to be done. The author's hope is that MSMES participants can gain awareness about the use of technology that can help run a business more efficiently and efficiently.

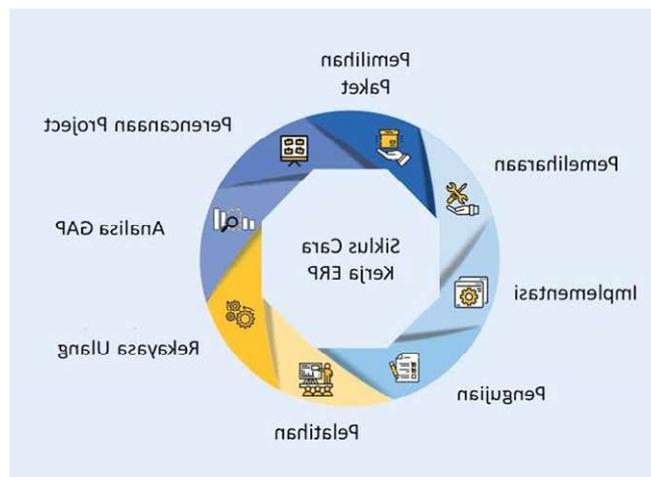
RESEACRH METHOD

The implementation process for the project lasted for 10 months. For the first 3 months, meetings were held to discuss the formula of problems held by the MSMs party and action planning against vendor Enterprise Resource Planning by inviting stakeholders. For the next 12

weeks, the system has been tightened up according to the needs of the perpetrators. Once the system is done, perform education or support in using the system for enterprise resource planning by providing video, written guidance, and practical learning in person. And in the final phase, MSMs perpetrators can use system enterprise resource planning in their business processes. In this journal, the author uses the research method of the participatory action learning system. Pals is a participatory research approach that involves the active participation of stakeholders with vendor companies that provide enterprise resource planning systems in a range of research activities. This approach is used to gain a deeper understanding of the challenges faced by MSMs in implementing an Enterprise Resource Planning System.

RESULT AND DISCUSSION

Based on the observations carried out, the perpetrators needed the Point of Sales (PoS) module to assist in the sales process (casier), Finance Accounting to help with the printing of each transaction, Inventory to help in managing the supply of goods required by MSMES. Thus, activities were carried out for the implementation of the ENTERPRISE RESOURCE PLANNING system at MSMES in Indonesia, among them:



The initial stage in the implementation of the Enterprise Resource Planning system involves a meeting between MSMES and the vendor of Enterprise Resource Planning to discuss

the business needs and the features required in the Energy Resource Planning system. After the development of the Enterprise Resource Planning system is completed, a user acceptance test is carried out to ensure that the system is running properly and in accordance with the business needs of MSMES. At this stage, MSMES will test the Enterprise Resource Planning system that has been developed by the vendor of Enterprise Resource Planning. After the implementation of the system, training is given to MSMES employees to make sure that they can use the system properly. This training covers an understanding of the system, the use of features, and possible troubleshooting. After the training is completed, the enterprise resource planning system is ready to be fully used by MSMES. At this stage, MSMES begins to use the ENERPRISE resource planning system in its business operations. Monitoring and evaluation are carried out periodically to ensure that the system is running properly and provides the expected benefits. In its implementation, MSMES needs PoS, accounting, and inventory modules to assist in its business processes.

These modules will further enhance MSMES's operational performance, which can be seen from: The accounting module is used to assist MSMES in managing its business finances. This module allows MSMES to manage payments, expenditures, and financial reports more efficiently and accurately. In previous research, the accounting modulus on the enterprise resource planning system was recommended as a suitable system for MSMES when managing business finance. The inventory module was used to help MSMES manage the supply of goods. The module enables UMKK to manage inventory in real-time, monitor sales and inventory reports, and minimize frequent data input errors. In earlier studies, the Inventories module on the EMPRISE Resource Planning system was suggested as an appropriate system for the MSMES for managing inventory.

CONCLUSION

Based on the discussion of the activities carried out, the author concludes about the use of the system (enterprise resource planning) in small and medium-sized enterprises (MSMES) in Indonesia. MSMES is one of the major economic powerhouses in the country, contributing 54% of GDP and creating 118.9 million jobs. Using the Enterprise Resource Planning system can help MSMES increase flexibility and integrate all business processes, including inventory

management, finance, production, and sales. However, the implementation of enterprise resource planning on MSMES requires careful preparation, including appropriate vendor selection, internal team optimization, and human resource preparation. The research method used in this journal is the participatory action learning system, which involves the active participation of MSMES stakeholders and vendors in enterprise resource planning. The implementation process of the Enterprise Resource Planning system at MSMES involves the stages of meeting, planning, system design, education, and support, as well as the use of the system in business operations.



At the implementation stage, MSMES needs the Point of Sales (PoS), Accounting, and Inventory modules to help in its business process. The implementation process of the Enterprise Resource Planning system at MSMES involves several steps, among others: a sales briefing document, a function requirement document, a user acceptance test, training, and going live. The PoS, Accounting, and Inventory modules are important modules to be applied in the MSMES system. In implementing the enterprise resource planning system, MSMES needs to pay attention to factors such as the correct selection of vendors, internal business processes, and human resource readiness. The involvement of all employees in the implementation process, as well as providing training and socialization to them, is also very important. By implementing PoS, Accounting, and Inventory modules on the Enterprise Resource Planning system, MSMES can improve the efficiency of its business as well as reduce frequent data input errors.

REFERENCES

- Amanah, S., Suprehatin, S., Iskandar, E., Eugenia, L., & Chaidirsyah, M. R. (2021). Investing in farmers through public–private–producer partnerships: Rural Empowerment and Agricultural Development Scaling-up Initiative in Indonesia (Vol. 7). Food & Agriculture Org..
- Amri, M. A., Solikhun, S., & Nasution, R. A. (2022). KOMPARASI ALGORITMA K-NEAREST NEIGHBOR DAN NAIVE BAYES DALAM FAKTOR KETIDAKDISIPLINAN MASYARAKAT TERHADAP PROTOKOL KESEHATAN COVID-19. *Komputa: Jurnal Ilmiah Komputer dan Informatika*, 11(1), 1-10.
- Anizira, A., Nasution, R. A., Zarkasi, Z., & Rukmana, A. Y. (2023). Industrial Revolution Ideas 4.0 for Professional Development. *Jurnal Manajemen Riset Inovasi*, 1(4), 26-36.
- Cover, F. Life Science Cover. In 5th Syiah Kuala University Annual International Conference 2015. Syiah Kuala University.
- Dacholfany, M. I., Khataybeh, A. M., Lewaherilla, N. C., Yusuf, M., Sihombing, H. B. M., & Chang, M. L. (2022). APPLICATION OF THE BALANCED SCORE CARD CONCEPT AS A HUMAN RESOURCE PERFORMANCE MEASUREMENT TOOL AT THE MINISTRY OF HIGHER EDUCATION IN INDONESIA. *MULTICULTURAL EDUCATION*, 8(04), 1-13.
- Fitri, Y. CONTRIBUTION OF FARM NON FOOD CROPS SUB SECTOR ON JAMBI PROVINCE ECONOMY.
- Iskandar, E., Amanah, S., Hubeis, A. V. S., & Sadono, D. (2020). Factors affecting internet literacy of smallholder cocoa farmers in aceh, Indonesia. *Int. J. Adv. Res. Sci. Eng. Technol*, 29, 4074-4084.
- Johar, R. (2023). PROSIDING SEMINAR NASIONAL MATEMATIKA DAN TERAPAN (SIMANTAP) Volume 2.
- Khairan, K., & Aulina, N. Y. (2021). Extended Preface.
- Marpaung, R. E., Hardinata, J. T., & Nasution, R. A. (2022). Penerapan Algoritma K-Means Dalam Mengclustering Kualitas Bibit Kelapa Sawit Di PPKS Marihat. *ZAHRA: Buletin Big Data, Data Science and Artificial Intelligence*, 1(1), 7-15.
- Misrahanum, E. I., Meutia, C., & Rizki, Y. S. Isolation and Characterization of Indigenous Lactic Acid Bacteria from Acehnese Buffalo (*Bubalus bubalis*) Meat. *The 7th AIC-ICMR on*, 243.
- Mutiawati, E., Indra, I., Syahrul, S., & Mulyadi, M. (2015). Pharmacologic Aspect of Neuropathic Pain. In *Proceedings of The 5th Annual International Conference Syiah Kuala University (AIC Unsyiah) 2015 In conjunction with The 8 th International Conference of Chemical Engineering on Science and Applications (ChESA) 2015 September 9-11, 2015, Banda Aceh* (pp. 286-290). Univeritas Syiah Kuala.
- Nasution, R. A. N., & Saragih, I. S. (2023). The influence of self-efficacy and organizational climate on employee performance. *Enrichment: Journal of Management*, 13(1), 127-134.
- Nasution, R. A., & Saragih, I. S. (2022). Persepsi Masyarakat terhadap Penggunaan Transportasi Online (Go-Jek) di Kota Pematangsiantar. *Jurnal Indonesia Sosial Teknologi*, 3(05), 544-554.
- Nasution, R. A., & Saragih, I. S. (2023). Pengaruh Pemanfaatan E-commerce terhadap Pemulihan Ekonomi Pasca Pandemi Covid-19 di Kota Pematang Siantar: Studi Kasus pada Pelaku MSMEs. *Ekonomi, Keuangan, Investasi dan Syariah (EKUITAS)*, 5(1), 205-213.

- Nasution, R. A., Saragih, I. S., & Sormin, R. K. (2021). Pelatihan Dasar Kepemimpinan (Leadership) Pada Anggota OSIS SMK Satria Budi 2 Perdagangan Kab. Simalungun. *Jurnal TUNAS*, 3(1), 147-151.
- Nugrahini, A. D., Nishi, K., & Sugahara, T. (2017). ANTI-INFLAMMATORY EFFECT OF ARABICA COFFEE EXTRACT (*Coffea Arabica L.*). *INTEGRATED BIOLOGICAL SCIENCES FOR HUMAN WELFARE*, 227.
- Nugrahini, A. D., Nishi, K., & Sugahara, T. (2017). ANTI-INFLAMMATORY EFFECT OF ARABICA COFFEE EXTRACT (*Coffea Arabica L.*). *INTEGRATED BIOLOGICAL SCIENCES FOR HUMAN WELFARE*, 227.
- Pardede, A., & Siregar, H. (2023). Tren Digitalisasi MSMES di Jawa Barat 2023: Tantangan dan Peluang. *Jurnal Manajemen dan Kewirausahaan*, 25(1), 1-14.
- Saepudin, A., & Yusuf, M. (2022). THE EFFECTIVENESS OF VILLAGE FUND POLICY ON INFRASTRUCTURE DEVELOPMENT. *LITERACY: International Scientific Journals of Social, Education, Humanities*, 1(3), 172-180
- Salim, N. A., Sutrisno, S., Maango, H., Yusuf, M., & Haryono, A. (2022). Employee Performance And The Effects Of Training And The Workplace. *Jurnal Darma Agung*, 30(2), 549-558.
- Sari, E. W., Windarto, A. P., & Nasution, R. A. (2022). Implementasi Adaptive Neuro Fuzzy Inference System (ANFIS) Dalam Memprediksi Penjualan Roti Kacang. *BEEES: Bulletin of Electrical and Electronics Engineering*, 2(3), 74-83.
- Sinaga, D. E., Windarto, A. P., & Nasution, R. A. (2022). Analisis Data Mining Algoritma Decision Tree Pada Prediksi Persediaan Obat (Studi Kasus: Apotek Franch Farma). *Klik: Kajian Ilmiah Informatika Dan Komputer*, 2(4), 123-131.
- Sinaga, D. S., Windarto, A. P., Nasution, R. A., & Damanik, I. S. (2022). PREDICTION OF PRODUCT SALES RESULTS USING ADAPTIVE NEURO FUZZY INFERENCE SYSTEM (ANFIS). *Journal of Artificial Intelligence and Engineering Applications (JAIEA)*, 1(2), 92-101.
- Soukotta, A., Sampe, F., Putri, P. A. N., Cakranegara, P. A., & Yusuf, M. (2022). FINANCIAL LITERACY AND SAVINGS BEHAVIOR FEMALE ENTREPRENEURS IN KIARACONDONG MARKET, BANDUNG CITY. *Jurnal Darma Agung*, 30(2), 652-662.
- Sutaguna, I. N. T., Sampe, F., Dima, A. F., Pakiding, D. L., & Yusuf, M. (2022). Compensation and Work Discipline's Effects on Employee Achievement at Perumda Pasar Juara. *YUME: Journal of Management*, 5(3), 408-428.
- Wanto, A., Okprana, H., & Nasution, R. A. (2022). PkM Kelompok SMK dalam Pemanfaatan Digital Art untuk Membentuk Manajemen Kewirausahaan di Simalungun. *Jurnal TUNAS*, 4(1), 25-37.
- Weda, S., Abdul Samad, I., Patak, A. A., & Fitriani, S. S. (2018). 140 The Effects of Self-Efficacy Belief, Motivation, and Learning Strategies on Students' Academic Performance in English in Higher Education. *The Asian EFL Journal Quarterly*, 20(9.2), 140-168.