



The Role Of Management Information Systems In Improving The Effectiveness Of Islamic Education Administration

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ABSTRACT:

In order to realize Law Number 20 of 2003 concerning the National Education System which emphasizes the importance of providing educational facilities and infrastructure, including information technology infrastructure, to meet the needs of students in developing their potential optimally. Including the importance of administrative management of educational institutions and without leaving technological developments, this study seeks to analyze the role of management information systems in increasing the effectiveness of Islamic education administration. The method in this research is descriptive analysis, where researchers will describe the topic of discussion, starting from the definition of management information systems to their role in increasing the effectiveness of Islamic education administration. Management Information System is a system that integrates the management of human resources and the utilization of information technology in order to achieve quality education. Management information system is a process of collecting, storing, managing, and retrieving data related to educational activities such as information about students, teachers, curriculum and school administration efficiently. Based on the research, it was found that the implementation in Madrasahs has shown a commitment to improving operational efficiency and the quality of education services as the operator system for various administrative areas. It means that the role of using SIM in managing and improving the effectiveness of Madrasah administration is very important. The implementation of SIM opens the opportunity to strengthen Islamic values and principles through technology.

INTRODUCTION

As a country whose majority population is Muslim, it is very important for Indonesia to pay attention to how the management of the Islamic Education system while still paying attention to the development of digital technology. For this reason, there is a management information system as a means to make it easier for managers of educational institutions, namely principals, teachers and education personnel. As the education management standards listed in Permendiknas No. 19 of 2007 in supporting effective, efficient and accountable education administration¹, then schools need to manage management information systems as an easily accessible information facility. As when the

¹ Ministry of Education and Culture Regulation No. 19 of 2007 on Education Management Standards by Primary and Secondary Education Units.

principal will determine the policy, it is necessary to have information in deciding something. For this reason, it is necessary to have a management information system as a form of technology that helps facilitate the process of managing the institution.

In addition, it is important to pay attention to administration in managing educational institutions as research entitled "The Urgency of Planning in Islamic Education Administration" by Ading Sudiana, 2018. Furthermore, research on "Digital Transformation in Islamic Education Management" researched by Miftahul Jannah et al, 2023 which shows that it is necessary to follow digital developments in facilitating administrative management, as well as research conducted by Akhmad Sirojuddin et al, 2022 entitled "The Role of Management Information Systems in Decision Making at Madrasah Ibtidaiyah Darussalam Pacet Mojokerto" which discusses the role of management information systems in making decisions.

Law No. 34/2017 on Education Management Information System has emphasized the importance of preparing accurate and accessible data and information to support education development in the regions. This regulation underlines the urgency of developing a comprehensive and integrated education SIM.² In line with this, Law No 20 of 2003 on the National Education System also emphasizes the importance of providing educational facilities and infrastructure, including information technology infrastructure, to meet the needs of learners in developing their potential optimally.³

This is due to the importance of using management information systems in various fields, especially in education, as well as the importance of paying attention to institutional administration such as the completeness, correctness and updating of data, reporting teacher performance, and storing academic information. As a form of development of previous research and studies to increase the importance of administrative management of educational institutions, this study seeks to analyze the role of management information systems in improving the effectiveness of Islamic education administration. By identifying the definition of management information systems and their role in the effectiveness of Islamic education administration.

RESEARCH METHODOLOGY

The research method used in this article is a qualitative research method that has the characteristics of textual analysis or according to Creswell qualitative research is interpretive

² Law No 34 of 2017 on the Education Management Information System

³ Law No. 20 of 2003 on the National Education System

research, in which the researcher is involved in ongoing experiences with the participants.⁴ The method in this research is descriptive analysis, where researchers will describe the topic of discussion, starting from the definition of management information systems to their role in increasing the effectiveness of Islamic education administration.

By using data collection techniques in the form of observation, interviews and documentation studies, the following are several stages carried out by researchers in collecting data based on what has been described by Dr. H. Zuchri Abdussamad, M.Si, namely Data Reduction or limiting research topics in this study focusing on Islamic education administration, then Data Display or data presentation in the form of a brief description of information about management information systems and Islamic education administration in Madrasahs where the research is, and finally Drawing Conclusions whose contents answer the formulation of the problem regarding the subject matter that researchers want to find, namely the role of management information systems in increasing the effectiveness of Islamic education administration.⁵

RESULT AND DISCUSSIONS

Management Information System

Currently, the internet is a basic need for humans to dive into information widely, including in the world of education with the existence of management information systems used by schools. One of the innovations in technology in the field of education, namely the Management Information System (SIM), is a system that helps manage learning activities and educational administration including both educators and students. The system itself can be interpreted as a collection of elements arranged with each other into a single unit in order to achieve certain goals. Information can be interpreted as data that contains meaning or needed by the recipient. Meanwhile, management is a process that involves managing human resources and utilizing information technology. In management information systems, the elements assembled can include hardware, software, data, procedures, and human resources involved in managing the system.⁶

Management information systems according to Gordon B. Davis is an integration between humans and machines to present information to support the control and operational

⁴Arifudin, O. Management of Internal Quality Assurance System (SPMI) as an Effort to Improve the Quality of Higher Education. MEA (Management, Economics, & Accounting, 2019). p 161-169

⁵Abdussamad, Zuchri. Qualitative Research Methods. (Makassar: Syakir Media Press. 2021). pp 90-92.

⁶Zamroni, M. A. Application of Education Management Information System in the Learning Process at SMP Negeri 1 Dlanggu. Munaddhomah: Journal of Islamic Education Management, 2020.

processes of the institution. According to James O'Brien, management information systems are collaborations run by humans (users), hardware, software, computer networks, databases, and information dissemination. Meanwhile, Raymond McLeod Jr. defines management information systems as technology-based systems that provide a variety of information in meeting data search needs.⁷

It can be concluded that the Management Information System is a system that integrates the management of human resources and the utilization of information technology in order to achieve quality education. Management information system is a process of collecting, storing, managing, and retrieving data related to educational activities such as information about students, teachers, curriculum and school administration efficiently.

Functions, Objectives And Benefits Of Sim

The functions of a management information system include optimizing the management of data and information, making it easier to deliver information and reducing errors in data management. Teachers can monitor the development of student learning progress, provide learning assessments, and check student attendance and participation rates. The purpose of designing a management information system is to provide information to support decision making in the management process, both planning, organizing, controlling and supervising to be more efficient. The application of management information systems provides several benefits, namely: ⁸

- a. Ease of accessing data accurately.
- b. Develop an effective data processing process
- c. Identify needs that support the development of information systems
- d. Improve performance
- e. Minimizing costs

Islamic Education Administration

Administration or commonly referred to as "Administration" in education according to Drs. Ngalim Purwanto is a process of integration between all elements in the organization both personnel, spiritual and material related to achieving educational goals. Dr. Hadari Nawawi also said that educational administration is a series of activities that lead to the cooperative efforts of a number of people in a planned and systematic organization within an educational institution.⁹

⁷Buseri Kamrani. *Islamic Administration and Management (Paradigm, Theory and Application)*. Yogyakarta: Aswaja Pressindo. 2017. pp 25-55.

⁸Rusdiana and Irfan. *Management Information System*. (Bandung: Pustaka Setia, 2014). pp 99-100.

⁹Buseri Kamrani. *Islamic Administration and Management (Paradigm, Theory and Application)*. Yogyakarta: Aswaja Pressindo. 2017. pp 25-55.

It can be concluded that educational administration can be interpreted as a series of organizational management and control processes for effective and efficient teaching and education in achieving optimal educational goals.

Implementation Of Sim In Madrasah

The implementation of Management Information Systems in Madrasahs is carried out to facilitate interested parties in recording student and teacher data, monitoring field conditions digitally, and reporting performance results. The applications used in Madrasahs include

1. Education Management Information System (EMIS)

EMIS is an information system developed by the Ministry of Religious Affairs to facilitate school data entry, through this system all student information is well recorded, ranging from personal identity, to academic achievement. EMIS is an accurate and efficient student data management system that can describe student conditions based on data.

2. Educator and Education Personnel Management Information System (SIMPATIKA)

This is a system used to manage data and information about teachers and education personnel. Some of the main functions of Simpatika include data collection, information, reporting, and distribution of allowances. Some of its main advantages include: a) Efficiency, with Simpatika data collection can be done quickly and accurately, teacher data can be accessed quickly and easily anytime and anywhere; b) Transparency, all information about teachers and education personnel is recorded clearly and transparently, and teacher performance can be monitored regularly and objectively; c) Accountability, teacher data is managed in a structured and easily traceable manner, thereby increasing accountability; d) System integration, Simpatika applications can be integrated with other relevant systems, such as salary payment systems or continuing professional development systems. Although it has many advantages, Simpatika also has some disadvantages that need to be considered: a) Dependence on technology, if there is a disruption in the system, the teacher data management process will be hampered. In addition, users or madrasah operators need IT skills to be able to operate the system properly; b) The quality of the data generated is highly dependent on the correctness of the data entered by users.

3. Rapor Digital Madrasah (RDM)

RDM is an application for processing the grades of students studying in madrasah education units, this RDM application is used as a substitute for the manual report card that runs starting in the 2012/2022 school year. This application not only functions as a score bank, but also an effective tool for monitoring the progress of student grades. There are several benefits of implementing RDM, including: a) Efficiency, reducing the use of paper and speeding up the process of making report cards; b) Accurate, student score data is stored safely and can be accessed

at any time; c) Transparent, parents and students can access report cards online; d) Modern, following the development of globalization so that it can realize digital-based madrasah; e) Flexible, meaning that it can be used for various assessment systems.

4. Computer-based National Assessment (ANBK)

ANBK or an evaluation program implemented to improve the quality of madrasah education. ANBK is a substitute for the National Exam which has been established since 2021. The National Assessment is an evaluation program held to improve the quality of education that refers to the input, process, and output of learning. The quality of the education unit is assessed by the quality of the student learning process obtained from three main instruments, namely the Minimum Competency Assessment (AKM) to measure the level of literacy (reading) and numeracy (counting); Character Survey to measure student attitudes, manners, and habits; and Learning Environment Survey to measure the quality of the teaching and learning process in the classroom. ANBK is attended by grade 5 students and the results are used to identify educational potential and needs, as well as to evaluate the quality of learning.

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5. Madrasah Self Evaluation (EDM)

This is an assessment process conducted independently by the madrasah to measure the extent to which the madrasah has achieved the established education quality standards. The main objectives of EDM are: a) Improving the quality of education, b) Ensuring accountability, and c) Obtaining feedback, the results of EDM can be an evaluation material for all parties related to the madrasah, such as teachers, students, parents, and school committees. The Madrasah Self Evaluation process as described by the Madrasah Operator includes data collection, data analysis, formulation of conclusions, and preparation of action plans. EDM is one of the requirements to obtain madrasah accreditation.

6. Electronic-based Madrasah Work Plan and Budget (e-RKAM)

This is a madrasah financial management application starting from the planning, management, budgeting, administration and reporting process. The e-RKAM platform is important to encourage effective and efficient education governance. Through this eRKAM application, madrasah managers can work more easily and open up opportunities for transparent management of BOS funds and other funds that can be monitored. By using the e-RKAM application, it can also cut reporting and spending efficiency. For example, we no longer need to allocate a large budget for official travel just to send the LPJ from the madrasah to the Office of the Ministry of Religious Affairs. With e-RKAM, we can also save the budget for purchasing a lot of stationery, for example, for making SPJ. This is also a real step towards realizing efficient, easy, transparent and corruption-free education budget management. There are several functions of e-RKAM, among others: a) Planning, e-RKAM assists madrasahs in making more structured and data-based work plans. With the available features, madrasahs can conduct needs analysis and develop appropriate work programs; b) Budgeting, this system also facilitates the budgeting process.

Madrasahs can create detailed and transparent budgets, and track budget utilization in real-time; c) Reporting, e-RKAM allows madrasahs to create regular financial and performance reports. These reports are essential for program evaluation and accountability.

The Role Of Management Information Systems In Improving The Effectiveness Of Madrasah Administration

In general, Management Information Systems have three roles, namely:¹⁰

- 1) Improving Operational Efficiency
- 2) Introducing and developing innovation
- 3) Build strategic information

Based on the results of research on the Implementation of Management Information Systems in Madrasahs, especially in Madrasahs, it is found that Management Information Systems are very instrumental for the operational efficiency of institutions, starting from the planning, implementation and evaluation stages.

- a. Management Planning through the Management Information System can be seen in the profile and Vision and Mission of Madrasah, teacher data, student data, learning schedules, lesson plans, learning materials and media. The preparation of this SIM is carried out by dividing tasks for educators with a special team that manages the SIM, in order to produce updated information. Through planning, it is determined in advance what to do, how to do it, what to do, and who does it. It is also through planning that the objectives and actions to be taken to complete a SIM implementation process are set and determined.
- b. Implementation Management through Management Information Systems is very important in managing educational administration in order to build improvements in the quality of education. The use of SIM here is carried out by the principal as an instructional leader, while in the context of the Management Information System implementing officers are carried out by madrasah operators assisted by the treasurer and curriculum section.
- c. Evaluation management with the Management Information System is used as an activity to provide consideration regarding the value obtained during learning, so that it can be a reference material and consideration for future improvement with the use of RDM (madrasah digital report card) as a medium for pouring the value of evaluation results.

¹⁰Rusdiana and Irfan. Management Information System. (Bandung: Pustaka Setia, 2014). p 102-103.

CONCLUSION

Based on the results of observations made by researchers by paying attention to the implementation of management information systems (SIM) in Madrasahs, it shows significant developments in efforts to integrate information technology into various aspects of management and educational services. The implementation of SIM in Madrasahs has shown a commitment to improve operational efficiency and quality of educational services as operator systems for various administrative areas. This means that the role of using SIM in managing and improving the administrative effectiveness of Madrasahs is very important.

Although there have been improvements in some areas, the researcher revealed challenges that still need to be addressed, including the gap between planning and implementation, the need for IT infrastructure development, and human resource capacity building. In the context of Islamic education, SIM implementation opens up opportunities to reinforce Islamic values and principles through technology. However, the success of SIM implementation in madrasahs will depend on the madrasahs' ability to overcome the challenges, maintain focus on the main educational objectives, and continue to adapt to technological developments and the dynamic needs of Islamic education to create an innovative and relevant learning environment in the digital era.

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