

## Application of Education Management Information System in the Online Learning Process in Madrasah

Danang Dwi Prasetyo<sup>1</sup>, Annisa Himatul Ilya<sup>2</sup>, Syarif Hidayat<sup>3</sup>, Diningrum Citraningsih<sup>4</sup>

<sup>1</sup> STAI Terpadu Yogyakarta, Indonesia; danang@staitbiasjogja.ac.id

<sup>1</sup> STAI Terpadu Yogyakarta, Indonesia; annisailya40@gmail.com

<sup>1</sup> STAI Terpadu Yogyakarta, Indonesia; syarif@staitbiasjogja.ac.id

<sup>1</sup> STAI Terpadu Yogyakarta, Indonesia; diningrum.citra@gmail.com

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### ARTICLE INFO

#### *Keywords:*

Management Information System;  
Education Management;  
Online Learning

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#### *Article history:*

Received 2022-08-12

Revised 2022-12-03

Accepted 2023-01-30

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### ABSTRACT

Educational institutions will be more advanced and globally competitive with the ability to adapt to the application of management information systems which in the learning process are currently integrating online and offline learning. Therefore, schools must prepare strategies to deal with the negative impacts or problems that may occur from the application of management information systems in online learning. This study aims to analyze the application of management information systems in the online learning process. This type of research is descriptive qualitative research. Data collection techniques use observation, interviews and documentation. This data collection includes interviews, observations, documentation, and questionnaires. Data analysis techniques through data reduction, data presentation, qualitative data analysis, drawing conclusions and data validity. The results of the study explained that the implementation of the management information system using data processing applications, namely EMIS and information technology in supporting the learning process, providing educational services by facilitating learning practices using technological infrastructure, such as learning facilities by combining applications and computers with wifi. The implementation of learning through three stages, namely first, the planning stage by making an effective day analysis and analyzing the learning program by compiling a syllabus, compiling lesson plans, making learning media and preparing other learning tools. Second, the implementation stage, in the implementation stage there are three activities, namely preliminary activities, this activity, and closing activities. Third, evaluation of learning, at this stage assess student learning outcomes in writing, orally, scientific work, tasks and practice. In addition, the teacher makes direct observations to observe the attitudes of students in terms of spirituality, knowledge and skills. This research focuses on online learning where in its management it still takes various efforts to get the right and measurable formula, so that student learning outcomes can be achieved optimally

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**Corresponding Author:**

Danang Dwi Prasetyo

STAI Terpadu Yogyakarta, Indonesia; danang@staitbiasjogja.ac.id

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## 1. INTRODUCTION

The rapid development of technology has a positive impact on every element of society. Utilization of the sophistication of information technology that is increasingly advanced and in demand by individuals and organizations. In addition to excelling in sophistication, this technological development makes it easier to find information and access the information needed and ensure the security of the data that has been made. The role of information becomes very urgent when management is facing a large and complicated problem. To anticipate this, it is necessary to design an information system. Especially when management has to process large amounts of data and there are complex calculations, the use of information technology is the right choice (Siregar, 2019). A school has at least implemented an information system regarding student data by creating a student database based on the year of graduation. Some specialize only in data collection, but some have been integrated with other programs, such as the distribution of data on working alumni. The preparation of these programs is carried out gradually, some are built in a fast time (Hakim, 2019).

Good management or management in an educational institution is an absolute thing for the sustainability of the institution. One of the important things that can maintain and even develop an educational institution is the management of information systems precisely and accurately. Planning, organizing, leadership and supervision, are managerial activities whose estuary of work practice is decision making. The process of making decisions as outlined earlier is a process that requires information. This information is used as a basis for making decisions about what to implement, what types of monitoring should be carried out and strengthened and what activity targets to achieve. So the management information system is a whole network of information aimed at making information for managers and other users that serves for decision making or other needs within the scope of organizations or individuals. Information is data that has been processed, analyzed in a way so that it has meaning and meaning. While data are facts that represent a state, condition or event that occurs or exists in or in the physical environment of the organization that has not been analyzed (Hakim, 2019).

The main component needed to produce a quality educational information system is the availability of information technology used by human resources who are able to operate it. One of the factors in creating a conducive learning environment is to use audio-visual. With the use of this learning model, children will not feel bored in learning. The importance of variation in the delivery of material is one of the important factors so that students absorb and understand well the materials provided by their teachers. In the learning process, teachers are required to be able to use technological tools that can be provided by schools, and it is possible that these tools are in accordance with the times and can develop skills in making learning media that will be used in the teaching and learning process if the media needed is not yet available. For this reason, teachers must have sufficient knowledge and understanding of learning media (Setia, 2019).

The component needed to produce a quality education management information system is the availability of information technology used by human resources who can use or operate it. A person's

ability in technology is certainly different, for this reason, for this education management information system to be effective, human resources are needed who can operate it. In educational institutions, education management information systems are one of the important factors in KBM (Teaching and Learning Activities). The process of teaching and learning activities must be planned in advance so that the predetermined goals are achieved. The existence of a management information system can support the smooth running of educational institution activities, especially in the learning process between educators and students. Human resources are involved in teaching systems consisting of educators, learners and other personnel. To achieve learning goals, complementary facilities are needed including teaching materials, learning resources, visual studio equipment, computers and so on. The application of the information system is intended to help facilitate the management of data and information related to the school including the admission of new students, academics, report cards and counseling and other student activities.

Along with the development of technology in education and the impact of the new normal or post-Covid-19 pandemic making attention in the application of educational management information systems to online learning, several studies have been conducted to find out more about the need to apply management information systems to learning. Research conducted by Sonia (2020) explained that (SIMDIK) MAN 2 Ponorogo consists of the services of educators and education staff by empowering the SIMPATIKA application (Information System for Educators and Education Personnel of the Ministry of Religion), e-learning learning applications, BNI eduPATROL applications, fingerprint applications for both teachers and students and web-based applications in the admission of new students. Another research conducted by Ahmad & Sinen (2017) that in the education management information system uses data processing applications, namely dapodik and information technology in supporting the learning process to provide educational services by facilitating learning practices using technological infrastructure, such as learning facilities by combining computers.

Management information systems in educational institutions are things that support the data management process, especially digital-based data related to learning programs, school data, student data, and staffing data. According to Arifudin (2019) and Arifudin (2020) in Mayasari et al., (2021) explains that the development of rapidly developing technology and information systems in the modern era has both positive and negative impacts. However, despite these impacts, it can be seen that various organizations, especially educational organizations, welcome the development of information technology. Educational institutions from various levels ranging from kindergarten to high school or university have implemented information technology and the school itself must prepare strategies to deal with negative impacts or problems that may occur from the application of information technology.

Based on some of these preliminary studies, it is necessary to conduct further research related to management information systems in online learning in order to enrich scientific treasures and relevance to technological developments in the realm of education. Researchers took the object of research at the Madrasah Aliyah Muhammadiyah Kudus, where it can be known that the Madrasah Aliyah (MA) Muhammadiyah Kudus is one of the madrasahs under the supervision and auspices of the Ministry of Religion which is one of the leading Aliyah madrasahs, with an accreditation value of A. In addition to equipping students with noble morals, Madrasah Aliyah Muhammadiyah Kudus also teaches students skills in the field of technology. The application of management information systems is carried out in order to respond to all changes and technological developments that occur in their environment, especially in the field of education and its role in the learning process. One of the

reasons for implementing a management information system is to facilitate the teaching and learning process in schools. Because during the Covid-19 pandemic, the learning process uses more online learning technology, such as Youtube, Google Classroom, Whatsapp. So that educators at Madrasah Aliyah Muhammadiyah Kudus use information technology as a means of facilitating the teaching and learning process and it is necessary to develop skills in operating technology in order to produce quality learning.

## 2. METHODS

Research on the application of educational management information systems in the online learning process at Madrasah Aliyah Muhammadiyah is qualitative research with the type of phenomenological research. The selection of this method is based on social reality and its objects in depth as well as facts by objectively collecting data and information about the application of educational management information systems to online learning. The data collection technique carried out was that researchers conducted structured interviews with the principal of Madrasah Aliyah Muhammadiyah Kudus, waka curriculum, student representatives and representatives of parents by asking general and special questions. This is so that the information obtained from several informants can be in-depth and researchers can explore and understand the facts that occur in the field.

Furthermore, researchers make direct and indirect observations to observe and obtain actual data and examine documentation evidence as a complement to research data. Direct observation is carried out by the way researchers see firsthand the learning process carried out by teachers by utilizing management information systems, while observation is indirectly carried out by reviewing websites and applications used in online learning. The data were analyzed using data analysis of the Miles and Hubberman models, namely data reduction, display data and conclusion drawing (Miles et al., 2014). The researcher summarized, focusing on important matters related to the implementation of educational management information systems in the online learning process then made in brief descriptions and interconnected patterns. Then the data are analyzed and conclusions are made.

## 3. FINDINGS AND DISCUSSION

Based on data obtained in the field through interview observation and documentation, it can be analyzed about the findings of the application of the education management information system in Madrasah Aliyah Muhammadiyah Kudus in the online learning process.

### **Implementation of Education Management Information System**

Management information systems defined by Gordon B. Davis SIM are human or machine systems that provide information to support the management operations and decision-making functions of an organization. Furthermore, the management information system (SIM) is closely related to computer-based information processing. SIM is also a system that performs the functions of providing all information that affects all the operations of the organization (Prasojo, 2013). The implementation of the management information system in Madrasah Aliyah Muhammadiyah Kudus is carried out by forming a special team that has the ability and excellence in managing information media (website, e-learning) and systemized data from the EMIS (Education Management Information System) government. This is in accordance with the research Ahmad & Sinen (2017) explained that the formation of a personnel body in carrying out the management information system consisted of a koodinator led directly by the principal, data collector (teacher council) technicians (programmers). All of them are assigned according to the plan and implementing posts on the management information system. Aliyan & Hamid (2021) explaining about EMIS is one of the education management information systems which contains information on educational data to be stored, managed, analyzed, so that it can be used for education policy

making. Within the territory of the Ministry of Religion, EMIS has also been formed, which is the manager of the education management information system under the auspices of the Ministry of Religious Affairs. The opinion of Sondang P Siagian is that there are four steps needed to manage data in EMIS, namely collecting data, analyzing data, storing information, and distributing information (Siagian, 2012). Therefore, EMIS is a reference for information systems supporting the management of Islamic education programs developed by other work units.

Furthermore, the port system in madrasahs uses RDM (Madrasah Digital Report Card). RDM is a system created by madrasahs that aims to make it easier for ustadz-ustadzah to edit student report cards and make it easier for student guardians to download student report cards. RDM (Raport Digital Madrasah) is one of the menus on the website of the Muhammadiyah Kudus Islamic Boarding School. In the RDM can access several data including madrasah profile teacher data, student data (NISN and passwords), subjects, classes, and report card print forms. Research conducted by Sonia (2020) explained that the information system in the assessment / evaluation of student learning outcomes at MAN 2 Ponorogo uses ARD (Digital Report Card Application) issued by the Ministry of Religion and managed by the madrasah itself. Information and technology (IT personnel) help in the process of uploading data and learning materials, because teachers still have difficulties in the upload process. The application system used is able to make it easier for teachers to provide information on student learning outcomes to parents / guardians of students online.

In line with the research Loilatu, et al., (2020) The data collection system managed by the Ministry of Education and Culture and the Ministry of AGARAM aims to create a database so that integrated education data governance can be created and produce representative data to meet the needs of the ministry and other stakeholders. Furthermore, the next goal is to support the improvement of efficiency, effectiveness, and synergy of basic data collection activities that are integrated in one data collection system.

To carry out a management information system, three parts are needed in processing data, namely the data collection section, the data processing section, the data storage section three parts to process the data, namely the data collection section, the data processing section, the data storage section.

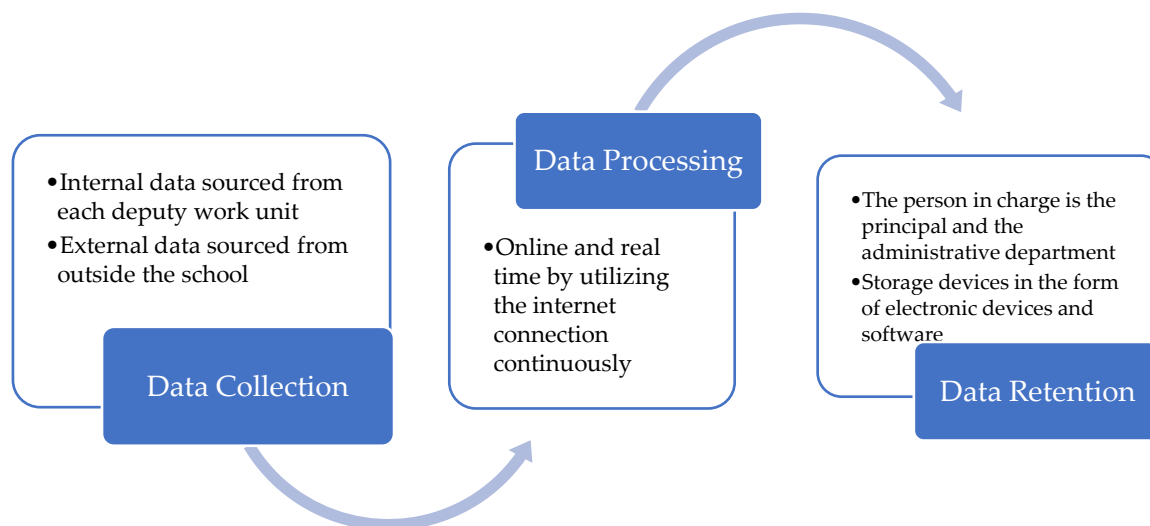


Figure 1. Data Processing Process

### Data Collection

The data collected is in the form of internal data obtained from all work units in the organization, namely from the deputy head of curriculum, deputy head of student affairs, deputy head of facilities and infrastructure, and other parts. That is, functional areas and various work units in the

organization can be a source of data. This is in line with the research Zamroni (2020) and Ahmad & Sinen (2017) that the personnel in charge of data collection can be taken from all work units in the organization, namely, wakasek so that each work unit has representatives who will support the effectiveness of data collection to be processed into information that is useful for information users. Meanwhile, external data comes from outside the organization obtained from the environment around the school, but must be adjusted to the conditions and needs of the organization.

### **Data Processing**

The data processing department is in charge of carrying out the data process by following a certain set of steps or patterns so that the data can be transformed into a more useful form of information. In data processing can be carried out manually or with machines. The team in charge of data processing consists of several experts who are tasked with shaping the data into information that suits the needs of management levels (Zamroni, 2020). In processing data, there are established procedures and must pay attention to these procedures including: (1) Connection of supporting equipment to check code detection, (2) Control the processor used so that there are no errors, (3) Check the compatibility of previous programs with new programs used, (4) Availability of procedures to prevent errors in the data processing process so that the information provided remains complete, accurate and precise.

Data processing is carried out directly online and in real time by maximizing the utilization of internet connection and data processing must be carried out continuously and continuously. The task of the data processing unit must follow and up-date the data according to reality because this will affect the information received by the manager (the principal and his deputies) and will have a great impact on the development of the organization (Loilatu et al., 2020). Data processing can be accessed anywhere and anytime using devices such as laptops, computers, and gadgets that are already connected to an internet connection.

### **Data Retention**

Data can be stored in electronic devices and software or hardware applications, such as PCs, hard drives and Google Drives. In addition, data such as teacher data, student data, employee data can be stored in the EMIS system. The person in charge of data security is the principal and the school administration department. Ahmad & Sinen (2017) added that in their research, if the management levels require data, both in the form of raw material data and data that has been processed, then the data can be taken and used according to the needs of managers (principals and representatives). Management information systems have quality standards for management information systems related to completeness, precision, accuracy, reability.

The use and management of educational management information systems cannot be separated from educational activities themselves. These two fields need each other. In describing the relationship between the two aspects, management considers education as a driver in the education management information system as well as the educational information system as a determinant of the education management process. Furthermore, this is also a form of progress in education management in following the development of technology and information and as an effort to improve the quality of education in the institution and can develop knowledge for users of information systems.

### **Online Learning Process**

Distance or online learning carried out by madrasahs is one of the reasons for the implementation of management information systems in the learning process. Madrasah really did not expect that after the IT team was formed, it would be faced with an urgent situation. With the management information system that has been provided by madrasahs, it can facilitate teaching and learning activities even though the content of the material presented is reduced.

In the online learning process at Madrasah Aliyah Muhammadiyah Kudus, it is carried out in several stages, including the learning planning stages. Teachers have prepared learning tools consisting of syllabuses and Learning Implementation Plans (RPP) which contain subject identity, Basic Competency Standards (KD), indicators of material achievement, learning objectives, teaching materials, time allocation, learning methods, learning activities, assessment of learning outcomes and learning resources. Teachers also prepare learning media such as learning videos, power points, learning demonstrations that aim to make the delivery of material easily understood by students. Loilatu et al., (2020) In their research, they added that before delivering material or information, they first conveyed the learning objectives and indicators of learning to be achieved.

Furthermore, at the stage of implementing learning, it includes preliminary activities, core activities, and closing activities. Each teacher can manage his class by greeting students using Arabic before starting the lesson, the volume and intonation in the delivery of the material can also be heard well by the students, the choice of language used by the teacher is polite and understandable. The learning methods used by teachers vary such as lectures, discussions, debates, presentations, analyzing a problem, providing conclusions on the material studied, so that students do not feel bored during teaching and learning activities. According to Zamroni (2020) and Ahmad & Sinen (2017) explained that the learning method is part of the learning resources according to AECT (Association of Education and Communication Tecnology) (1977) on the type of engineering examples, technique has the meaning of a coherent or reference procedure that is prepared to use equipment materials, people and learning environments in a combination and coordinated manner to convey teachings or equipment materials.

However, in the implementation of online learning, there are still obstacles. The obstacle lies in the network of different teachers and students so that some students do not follow the lesson. Citraningsih & Wiranata (2022), Faizal et al., (2021), Hanif et al., (2021) and Sadikin & Hamidah (2020) added that in their research, internet connection is the main thing and an important element for the implementation of online learning, without an internet connection or an unstable internet connection, making teacher interaction with students less optimal. The delivery of material delivered by the teacher will be received imperfectly by students which results in a reduction in the quality of learning. Supporting tools in learning used in the distance learning process are print media (books), gadgets / cellphones, computers / laptops, e-learning. Handayani et al., (2022) dan Muqorobin & Rais (2020) strengthened in their research that in implementing information and technical systems online learning can take advantage of various digital technology-based platform forms such as Zoom Meet, Whatsapp, Youtube, edlink, skype, Google Classroom, Google Meet.

In the process of distance learning, there is a poor way of communicating students. Student responses to instructions given by teachers, it is not uncommon to use words or sentences that are not standard or tend to be less polite. This can be caused by the absence of good character education on how to reach learning materials delivered by older people, such as to teachers. The students considered that the language used to answer the teacher's questions with his peers was the same. This is the bad impact of distance learning (PJJ) which is carried out in the midst of the current pandemic. Teachers cannot set a direct example of ethical education as well as good morals(Alfaini et al., 2021).

At the assessment stage, teachers provide individual and group assessments according to their duties. Individual assessment, for example, by providing tests or quizzes that are done independently. Meanwhile, the group assessment is seen how successfully the group completed the task being done. The 2013 curriculum also applies authentic assessments to assess students' learning progress which includes aspects of attitudes, both spriritual and social, knowledge and skills. To assess some of these aspects, teachers usually make observations such as observing and providing questionnaires. Ahmad & Sinen (2017) added that educators need to know and prepare learning materials that are tested in writing, orally, and in a list of exam questions. Evaluation of learning skills evaluated with practical exams, and analysis of tasks that are self-evaluated by educators. And the form of the test given to students must still be with standard requirements. Teachers can conduct

assessments online through attendance attendance, activeness during online learning and discipline in collecting assignments.

However, on the other hand, student achievement in the implementation of distance learning has decreased. Class hours during the pandemic are limited so that the effect on the material presented to students cannot be maximized. The limitations of children's learning media also affect the distance learning process, some students do not have their own gadgets or laptops for the distance learning process so that students can take part in learning when their parents have returned home from work. In the study, how many students did not have their own cellphone facilities and used old cellphones or their siblings..

#### 4. CONCLUSION

The application of education management information systems in Madrasah Aliyah Muhammadiyah Kudus using data processing applications, namely EMIS and information technology in supporting the online learning process, providing educational services by facilitating learning practices using technological infrastructure, such as learning facilities by combining applications and computers connected to an internet connection.

The online learning process is carried out through three stages. First, the planning stage, in this stage the teacher makes an effective day analysis and analysis of the learning program by compiling a syllabus, infiltrating the lesson plan, creating learning media and preparing other learning tools. Second, the implementation stage, in the implementation stage there are three activities, namely preliminary activities, core activities, and closing activities. Learning media used in the distance learning process are learning e-modules, gadgets, computers or laptops, google classrooms. Third, learning evaluation, at this stage conducting an assessment of student learning outcomes. Teachers provide exam assessments in the form of written, oral, scientific papers, assignments and practices that are uploaded to google classroom.

The author hopes that further research can be developed on the effectiveness and response of students and guardians to the usefulness of the management information system implemented by the school.

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