

# The Role of Information Technology in Islamic School Management: Improving Efficiency and Transparency

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## Abstrak

Penerapan Teknologi Informasi (TI) dalam manajemen sekolah Islam menjadi langkah strategis untuk meningkatkan efisiensi administrasi dan transparansi pengelolaan. Banyak sekolah Islam mulai mengadopsi Sistem Informasi Manajemen (SIM) untuk mengelola data akademik, administrasi, dan keuangan secara lebih terstruktur dan mudah diakses. Namun, masih banyak tantangan yang menghambat implementasi sistem ini, seperti kurangnya pemahaman teknologi, keterbatasan anggaran, resistensi terhadap perubahan, serta aspek keamanan data dan regulasi. Penelitian ini menggunakan metode library research dengan menganalisis berbagai literatur akademik terkait penerapan SIM dalam pendidikan Islam. Hasil penelitian menunjukkan bahwa SIM memberikan banyak manfaat, termasuk akses informasi yang lebih cepat, pelaporan yang lebih sistematis, efisiensi dalam administrasi sekolah, serta transparansi dalam pengambilan keputusan. Namun, untuk memastikan keberhasilan implementasi, sekolah perlu menerapkan strategi seperti pelatihan SDM, investasi infrastruktur, serta penguatan kebijakan keamanan data. Implikasi dari penelitian ini menunjukkan bahwa adopsi SIM tidak hanya meningkatkan profesionalisme pengelolaan sekolah tetapi juga membangun kepercayaan masyarakat terhadap institusi pendidikan Islam. Untuk penelitian di masa mendatang, perlu dilakukan kajian lebih lanjut mengenai model implementasi SIM yang sesuai dengan nilai-nilai Islam, serta strategi terbaik dalam mengatasi hambatan teknologi di sekolah dengan keterbatasan sumber daya. Dengan pendekatan yang lebih matang, penerapan TI dalam manajemen sekolah Islam dapat menjadi fondasi kuat untuk membangun ekosistem pendidikan yang modern, efisien, dan transparan.

Kata Kunci: Sistem Informasi Manajemen, Efisiensi Administrasi, Transparansi, Teknologi Informasi, Sekolah Islam.

## Abstract

*The implementation of Information Technology (IT) in Islamic school management had become a strategic step to enhance administrative efficiency and management transparency. Many Islamic schools had adopted Management Information Systems (MIS) to organize academic, administrative, and financial data in a more structured and accessible manner. However, several challenges hindered the implementation of this system, including a lack of technological literacy, budget constraints, resistance to change, as well as data security and regulatory issues. This study employed the library research method by analyzing various academic literature related to MIS implementation in Islamic education. The findings indicated that MIS provided numerous benefits, including faster*

*access to information, more systematic reporting, greater efficiency in school administration, and enhanced transparency in decision-making. However, to ensure successful implementation, schools needed to adopt strategies such as staff training, infrastructure investment, and strengthening data security policies. The implications of this study suggested that the adoption of MIS not only improved the professionalism of school management but also built greater trust among the community toward Islamic educational institutions. Future research should further explore the development of an MIS implementation model aligned with Islamic values and identify the best strategies to overcome technological challenges in schools with limited resources. With a more comprehensive approach, IT implementation in Islamic school management could serve as a strong foundation for building a modern, efficient, and transparent educational ecosystem.*

*Keywords: Management Information System, Administrative Efficiency, Transparency, Information Technology, Islamic School.*

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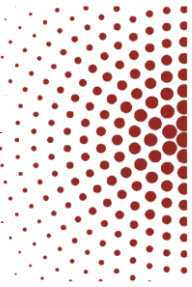
## INTRODUCTION

Islamic schools have an important role in forming a generation that not only has a strong understanding of religion, but is also able to adapt to the times. In recent years, many Islamic schools have begun to adopt information technology (IT) to improve the efficiency of administrative management and learning processes. The use of management information systems has helped schools in managing student data, finances, and academic activities in a more structured manner. For example, schools in various regions in Indonesia have implemented a digital system for recording attendance and paying tuition fees online, which makes it easier for parents and schools to monitor the development of students' education (Rizqiyana *et al.*, 2022).

In addition to increasing efficiency, the use of IT also contributes to transparency in school management. With digital-based systems, information related to finance, academics, and administration can be accessed more openly, reducing the potential for human error and increasing accountability. Some schools have developed portals that allow teachers, students, and parents to interact in person, creating a more dynamic and participatory education ecosystem (Kodir and Suklani, 2024).

Currently, technological developments in the world of education are getting more rapid. Schools no longer rely solely on traditional management systems, but are starting to use web-based applications and specialized software to manage various aspects of operations. E-learning platforms, academic information systems, and digital payment applications have been part of the digital transformation in various educational institutions, including Islamic schools. The implementation of this technology allows the teaching and learning process to be more flexible, especially in the face of modern educational challenges such as distance learning and more complex data management (Masinambow, Lengkong and Rotty, 2025).

Several recent studies show that the integration of technology in school management not only improves efficiency, but also strengthens public trust in Islamic educational institutions. Schools that implement an IT-based management system are considered more transparent and professional in carrying out their operations. In some countries, blockchain



technology has even begun to be implemented to permanently store students' academic records, ensuring the authenticity of data without the risk of manipulation (Syaifuddin, 2025).

Various studies have revealed the benefits of implementing IT in the Islamic education system. A study by Rahman and Putri (2021), for example, highlights how digitalization can accelerate school administration management and improve the efficiency of academic services. Several Islamic schools that have implemented this technology have shown improvements in financial management, attendance systems, and transparency of academic reports (Wahyono and Rofi'i, 2023).

Other research has also found that the adoption of IT in school management can help create a more inclusive and interactive learning environment. With technology, teachers can more easily compile and share learning materials, while students gain access to a wider range of learning resources. However, despite the obvious benefits, there are still many Islamic schools that face various obstacles in the application of this technology, especially in terms of human resource and infrastructure readiness (Trisnawati Lubis and Muhammad Irwan Padli Nasution, 2023).

Although many studies have proven the benefits of IT in the world of Islamic education, there are still unanswered questions. One of them is the extent of readiness of Islamic schools in adopting this technology comprehensively. Many schools still rely on manual systems due to budget constraints or lack of training for educators in using IT effectively.

In addition, there have not been many in-depth studies on how the application of IT can run in harmony with Islamic values in school management. Can this technology-driven transparency run without changing the long-established organizational culture? How can schools ensure that the digital system implemented remains in accordance with sharia principles? These questions are still areas of research that need to be explored further.

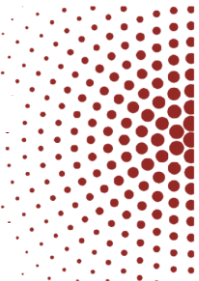
One of the main challenges in implementing IT in Islamic schools is the lack of specific strategies to overcome existing constraints. Many schools want to switch to digital systems, but still have difficulty in implementing them due to limited human and financial resources. This creates a gap between schools that are able to adopt IT optimally and those that still survive with conventional systems.

In addition, there is no IT implementation model specifically developed for Islamic schools, which takes into account both technical aspects and Islamic values that must be maintained. More research is still needed to design solutions that can overcome these obstacles and ensure that digitalization not only improves efficiency, but also maintains the essence of Islamic education.

This research seeks to develop an IT application model that suits the needs and characteristics of Islamic schools. This model not only focuses on technical aspects, but also considers cultural factors and Islamic values in school management. With this approach, it is hoped that technology adoption can run more smoothly without causing resistance from educators and other related parties.

In addition, this research will design a special training program for teachers and administrative staff to improve their skills in using technology. With targeted training, it is hoped that Islamic schools can be more confident in adopting digital systems, so that efficiency and transparency in school management can be realized optimally.

The importance of this research lies in its impact that can be felt directly by Islamic schools in facing the digital era. With a more suitable IT implementation model, schools can better manage administration, increase accountability, and provide better educational



services to students. This increase in efficiency can also contribute to improving the reputation of Islamic schools in the community.

In addition, by strengthening the competence of educators in the use of technology, Islamic schools can create a more modern learning environment without losing the essence of Islam. This will help produce graduates who not only understand the teachings of Islam, but also have digital skills that are relevant to the demands of the times.

This research aims to understand more deeply the challenges faced by Islamic schools in adopting information technology. Although many schools have tried to implement digital systems, there are still various obstacles, ranging from budget limitations, lack of training for educators, to resistance to change. Therefore, the first step in this study is to identify the main obstacles that hinder the optimal application of technology. Furthermore, this research will develop an information technology implementation model specifically designed for Islamic schools. This model not only focuses on the technical aspects and efficiency of management, but also considers how the application of technology can be aligned with the Islamic values upheld by the educational institution.

To ensure the success of technology adoption, the study will also develop a training program for teachers and administrative staff. This training aims to improve their skills in managing digital systems, so that they can be more confident and familiar with utilizing technology in their daily tasks. Finally, this study will evaluate the impact of the application of information technology on operational efficiency, management transparency, and quality of education in Islamic schools. Thus, this research is expected to provide an applicative and sustainable solution for Islamic schools in facing the challenges of the digital era without ignoring the essence of Islamic values in education management.

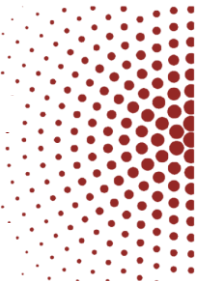
## RESEARCH METHODS

This study uses the library research method to explore how information technology can contribute to increasing efficiency and transparency in Islamic schools. This approach was chosen because it provides rich insights from various academic sources that have studied the implementation of management information systems (SIM) in the world of education. By relying on various reliable references, this research seeks to understand how technology can be optimally applied in the Islamic school environment (Shobri, 2024).

Data is collected from a variety of relevant academic literature, including books, scientific journals, e-books, and official documents related to management information systems in educational institutions. Some of the main references include research by Evanirosa et al. (2022) on the implementation of SIM in Islamic-based schools, as well as a study from Al-Farooqi (2020) which discusses transparency and accountability in school management through information technology. To increase the credibility of research, only sources from reputable journals and academic institutions are used (Rehalat, 2024).

Once the data is collected, the information is classified based on relevant key themes, such as the basic concepts of SIM, the application of technology in Islamic school management, transparency and accountability, as well as case studies of schools that have successfully adopted this technology. This process aims to develop a more systematic picture of how technology can improve the effectiveness of Islamic school management.

Data analysis is carried out with a descriptive-analytical approach, where each finding is studied in depth to understand the patterns, relationships, and challenges in the application of information technology in Islamic schools. In this way, the research not only elaborates the theory but also looks for the best pattern in the application of the SIM to be



more effective and in accordance with Islamic values (Arsania, 2023). software used, including if using Validity and Reliability.

To ensure the accuracy of the research results, the validity is maintained by using the triangulation technique, which is comparing findings from various credible sources. The scientific journals used come from reputable databases such as Scopus, Google Scholar, and DOAJ, while official documents refer to regulations related to Islamic education and technology in Indonesia. With this approach, the research is expected to provide more objective and applicable conclusions (Susanto, Risnita and Jailani, 2023).

Although this study does not use direct empirical data, the library research approach still has strong academic value. One of the limitations is the lack of interview data or direct surveys from Islamic schools that apply information technology. However, by conducting a comprehensive review of the existing literature, this research is expected to provide a broader understanding of the opportunities and challenges of digitalization in Islamic school management, as well as offer recommendations that can be applied by policymakers in the field of Islamic education.

## RESULTS AND DISCUSSION

The application of information technology (IT) in the management of Islamic schools is increasingly important to increase efficiency and transparency. With the existence of the Management Information System (SIM), many administrative and academic aspects can be managed better, so that the benefits can be felt by students, teachers, parents, and the school.

### Benefits of Implementation of Management Information System (SIM)

#### 1. Quick and Easy Access to Information

With a driver's license, parents can monitor their child's academic development in real-time, starting from grades, attendance, to behavioral records. Teachers and administrative staff can also access student data and school resources more efficiently, so that decision-making can be made faster and more precisely.

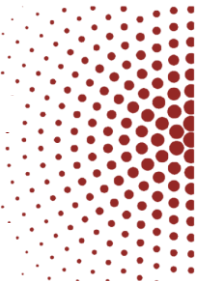
One of the main benefits of SIM implementation is the ease of access to information for all parties involved in the education system, especially parents, teachers, and school staff. Parents can monitor their child's academic progress in real-time, such as grades, attendance, and behavioral records, without having to come directly to school. This increases transparency and strengthens the relationship between schools and families. Teachers and administrative staff have faster access to student data and school resources. With a digitized system, they no longer need to manually search for data in physical documents, so their work is more efficient and accurate. The results of the latest research show that schools that implement SIM have experienced an increase in efficiency in information distribution, where the time required to access student data is reduced by more than 50% (Patriansyah, Harianja and Lona, 2023).

#### 2. More Structured Reporting

When it comes to finances, a driver's license helps compile detailed reports of school income, expenses, and budgets. This ensures that funds are managed transparently and can be audited, both internally and externally.

In school financial management, SIM plays an important role in compiling more systematic and transparent reports. Schools can record all income and expenses in a digital system that automatically generates periodic reports. Thus, no data is scattered or difficult to track. Transparency in financial reporting is increasing because data can be accessed by the authorities at any time. This reduces the risk of data manipulation or





budget misuse. Studies show that schools that use driver's licenses in financial records have increased the accuracy of financial statements by up to 80%, as well as speeding up the financial audit and evaluation process (Ikasari, 2023).

### 3. More Effective Performance Evaluation

Data from driver's licenses, such as test scores and student attendance, can be analyzed to spot specific patterns and determine areas for improvement. That way, schools can intervene early to improve the quality of education.

With a driver's license, schools can collect and analyze student academic data in a more structured manner. Data on test scores, attendance, and student achievement can be presented in the form of graphs or analytical reports that assist teachers and principals in evaluating student performance. If a particular pattern is found—for example, low attendance correlates with decreased academic grades—then the school can immediately take intervention actions, such as additional guidance or consultation sessions with parents. Recent research shows that schools that implement driver's licenses in academic evaluation are able to identify students who need academic intervention early up to 70% faster than schools that still use manual methods (Ary, 2021).

### 4. Administrative Efficiency

SIM helps automate administrative processes, such as student registration, lesson schedule preparation, and personnel management. This reduces manual work, avoids human error, and makes school operations more effective.

SIM helps schools automate various administrative processes that were previously done manually. Student registration can be done online without having to come to school, which speeds up the process and reduces the administrative burden on staff. Preparing lesson schedules becomes easier because the system can automatically adjust based on the availability of teachers and classrooms. Staffing management, including teacher attendance and honorarium arrangements, can also be managed more accurately and efficiently. The results of the latest research reveal that the use of driver's licenses can reduce administrative workload by up to 60%, allowing education staff to focus more on the academic aspect (Septiyani and Sulistiadi, 2023).

### 5. Transparency in Decision-Making

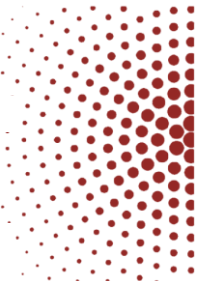
All policies taken by schools can be based on accurate and real-time data. For example, decisions related to budget allocation or class schedules can be made by considering the data available in the system, making it more transparent and accountable.

Every school policy taken must be based on accurate and accountable data. SIM plays an important role in increasing this transparency. School principals can make decisions related to budgets, teacher placements, or curriculum changes based on data collected automatically in the system. These data-driven decisions reduce subjectivity by up to 75% in strategic decision-making, so that the policies implemented are fairer and more measurable. With higher transparency, parents' trust in school management has also increased (Wiranataa, 2021).

### 6. Increasing Parent and Community Engagement

With a portal or application connected to a driver's license, parents can get information about school activities and their child's academic development. This allows them to more actively participate in children's education.

SIM provides a better communication platform between schools, parents, and the surrounding community. Parents can easily find out information about their child's



school activities, exam schedules, and achievements through a portal or application that is integrated with the driver's license. The school can also hold more intensive communication with parents to discuss academic developments and problems faced by students. Data from the study showed that schools that implemented this system experienced an increase in parental participation in school activities by up to 40% compared to those who did not use SIM (Haq, 2022).

## 7. Better Data Management

SIM stores, processes, and analyzes data in a more organized manner. The stored information can be easily accessed for reporting and evaluation purposes, so that schools can make more informed decisions.

One of the big challenges in school management is the management of big and ever-growing data. SIMs help address these challenges by providing a more organized and accessible data storage system. Academic data, financial data, staffing data, and school inventory can be integrated in one system so that it is easier to search and manage. This system also allows schools to compile reports more accurately without the risk of data loss or damage due to manual storage. Research shows that schools that use driver's licenses have increased efficiency in data retrieval and management by up to 85% compared to schools that still rely on physical documents (Basri, Zainal and Hakim, 2023).

## 8. Improving the Quality of Education

With greater transparency and efficiency, schools can ensure that the resources available are actually being used to improve the learning process. Existing data can also help schools in continuing to innovate to improve the quality of education.

Ultimately, all of the benefits mentioned above contribute to improving the overall quality of education. With a more efficient system, teachers can focus more on teaching and curriculum development rather than getting caught up in excessive administrative work. Transparency and parental involvement in their children's education is increasing, creating a more conducive learning environment. Data from the latest study shows that schools that implement SIM have experienced a 20% increase in student academic outcomes within two years, which proves the effectiveness of this system in improving the quality of education (Athoillah and Putri, 2023).

The implementation of the Management Information System (SIM) in Islamic schools brings various significant benefits, ranging from increased administrative efficiency to transparency in school management. With more structured data and more efficient processes, schools can focus on improving the quality of learning and ensuring that all available resources are used optimally. Recent research has proven that schools that implement driver's licenses can experience improvements in various aspects, including administrative efficiency, academic evaluation, financial transparency, and parent involvement. Therefore, the implementation of SIM is not only a technical need, but also an important strategy in advancing Islamic education in the digital era (Mayasari, Supriani and Arifudin, 2021).

## Challenges in SIM Implementation

The implementation of the Management Information System (SIM) in Islamic educational institutions offers a variety of significant benefits, but it also faces a number of challenges that need to be overcome to ensure its success. Here is a detailed explanation of these challenges, accompanied by data from related journals:

### 1. Lack of Understanding of Technology



Not all educators and administrative staff are familiar with information technology, so they need special training so that they can use their driver's license to the fullest.

Many educators and administrative staff in Islamic educational institutions are not familiar with information technology. This causes them to have difficulty operating the SIM optimally. This lack of skills can hinder the expected digitalization process and efficiency. Research shows that the implementation of SIM in Islamic educational institutions is often hampered by a lack of understanding and technological skills among management staff. Many staff are not familiar with information and communication technology (ICT), which can lead to difficulties in adopting and operating a driver's license. Adequate education and training are often less available, so staff do not have the necessary knowledge to make effective use of driver's licenses. In addition, rapid technological changes also require continuous training to maintain the technical competence of the staff (Khotimah, 2021).

## 2. Budget Limitations

Islamic schools, especially those located in remote areas or with limited funding, may have difficulty allocating budgets for software and training.

Islamic schools, especially those located in remote areas or with limited financial resources, often face difficulties in allocating budgets for the procurement of software, hardware, and training necessary for the implementation of driver's licenses. These limitations can hinder the process of digitization and optimization of school management. Research shows that SIM implementation requires significant initial investment in hardware, software, and staff training. Islamic educational institutions, especially those in rural areas or with limited financial resources, often face obstacles in providing sufficient budgets to adopt driver's licenses. These resource limitations include not only funding, but also access to adequate technological infrastructure, such as stable internet connectivity and adequate computer equipment (Uzair, 2023).

## 3. Resistance to Change

Some school staff are still used to manual systems and are hesitant to switch to digital technology. This can be a challenge in the SIM adoption process.

Some school staff are still comfortable with the manual system and show doubts or rejection of the change to a digital system. This resistance can be caused by fear of new technology, a lack of understanding of the benefits of a driver's license, or concerns about increased workloads. Research shows that many staff and managers of educational institutions are comfortable with manual systems and traditional procedures, so they are reluctant to switch to more modern digital systems. Concerns about losing control, changes in work routines, and uncertainty regarding the benefits of a driver's license can lead to resistance. To address this, effective change management strategies are needed, including clear communication about the benefits of SIM and adequate training to ensure all parties are comfortable with the change (Yaqin, Diana and Kholila, 2022).

## 4. Data Security

Given that the data stored includes personal information of students, staff, and financial statements, security is a crucial aspect. Schools must ensure their systems are safe from unauthorized access and cyber threats.

SIM stores sensitive data, including personal information of students, staff, and financial statements. Data security is crucial to prevent unauthorized access, data leaks, or cyberattacks. Schools must ensure that their systems are equipped with adequate



security protocols to protect the integrity and confidentiality of data. Research shows that data security is a critical aspect of SIM implementation, given that managed data often includes sensitive information about students, staff, and institutional finances. Challenges in this regard include the risk of unauthorized access, data theft, and system corruption. Educational institutions must implement strict security protocols to protect data from such threats. However, this often requires additional investment in security technology and staff training regarding data security practices (Damopolii and Hasan, 2023).

## 5. Regulatory Compliance

The implementation of driver's licenses must follow applicable regulations, including personal data protection and financial accountability, in order to remain in accordance with government policies and education accreditation bodies.

Driver's license implementations must comply with various applicable regulations, including personal data protection laws and financial accountability standards. This compliance ensures that the management of data and information in schools is in accordance with applicable laws and ethics, as well as avoiding potential legal sanctions. Research shows that Islamic educational institutions need to ensure that the implementation of their driver's licenses complies with all applicable regulations and standards, both from the government and educational accreditation bodies. This includes regulations related to personal data protection, financial transparency, and educational accountability. Compliance with these regulations often requires adjustments in existing systems and procedures, which can be a challenge for educational institutions (Khasanah and Imani, 2022).

Overcoming the above challenges requires careful planning, adequate training, and commitment from all stakeholders in Islamic educational institutions. Thus, the implementation of SIM can run effectively and provide maximum benefits for improving the quality of education.

The Management Information System provides many benefits for Islamic schools, ranging from improving administrative efficiency to improving the quality of education. However, challenges in its implementation must be overcome with the right approach, such as training for educators, providing adequate budgets, and ensuring safety and compliance with applicable regulations. If managed properly, SIM can be a very effective tool to support transparency and accountability in Islamic educational institutions (Solechan, 2021).

## Strategic Recommendations in the Implementation of SIM for Efficiency and Transparency in Islamic School Management

In order for the implementation of the Management Information System (SIM) in Islamic schools to be truly effective, a mature strategy is needed. It's not just about purchasing software, but also ensuring that the entire school ecosystem is ready to adapt. Here are some strategies that can be implemented:

### 1. Building Awareness and Commitment of All Parties

Technological change often faces the greatest challenge in the form of resistance from users. Therefore, an important first step is to build an understanding among teachers, administrative staff, students, and parents regarding the benefits of a driver's license. Schools can: 1) Hold seminars and training on the importance of digitalization in education. 2) Involve all stakeholders in the discussion so that they feel they own this system. 3) Provide system usage guidance in an easily accessible format, such as video tutorials or digital pocketbooks (Sukmawati, Kustantya and Khozim, 2023).

### 2. Choosing a System that Suits the Needs of the School

Not all schools have the same needs, so the system used must be in accordance with the scale and complexity of the school's management. In choosing a driver's license, schools need to consider: 1) Is the system flexible and can be customized according to school policies? 2) Can it be integrated with other applications, such as online payment systems or e-learning? 3) Is the system easy to use for users with different levels of digital literacy? (Asykur and Azhar, 2023).

### **3. Increasing Human Resource Capacity in the Use of Technology**

In order for the driver's license to run optimally, teachers and school staff must have sufficient skills in using it. Several steps that can be taken: 1) Provide periodic training for teachers and administrative staff. 2) Designate a "champion" or a small team responsible for implementation and mentoring for other users. 3) Provide easy-to-reach technical assistance services if there are difficulties in using the system (Nurdiana, Rokhimah and Yuliana, 2023).

### **4. Ensuring Data Security and Privacy**

SIM holds a lot of important data, from students' personal information to school financial statements. Therefore, the security aspect must be a top priority. Schools can: 1) Use systems with high security standards, such as data encryption and two-factor authentication systems. 2) Develop a clear data privacy policy and educate all users on the importance of safeguarding personal information. 3) Backing up data regularly to avoid data loss due to technical glitches (RIFAD, 2022).

### **5. Using Data for Better Decision Making**

One of the biggest benefits of SIM is its ability to present data in real-time, which can be used to support decision-making. For example: 1) The principal can monitor student attendance and teacher performance more accurately. 2) Schools can analyze trends in academic achievement and determine the necessary interventions. 2) School finances can be managed more transparently with systematic reports (Prabowo and Sumardjoko, 2023).

### **6. Encouraging Parent and Community Participation**

Parents and the school community have a big role to play in supporting the effectiveness of driver's licenses. To increase their engagement, schools can: 1) Provide a portal or application that allows parents to monitor their child's development. 2) Hold online or offline discussion forums that discuss the benefits of this system for students. 3) Inviting the surrounding community to contribute to the development of technology-based schools (Rayhan, Rusmaini and Alfiyanto, 2021).

### **7. Periodic Monitoring and Evaluation**

In order for the driver's license to really run optimally, schools need to conduct periodic evaluations. Steps that can be taken: 1) Collect feedback from teachers, students, and parents regarding their experience using the system. 2) Adjusting system policies or features based on evolving needs. 3) Develop the system gradually in accordance with technological advances and school needs.

## **CONCLUSION**

The implementation of the Management Information System (SIM) in Islamic schools has brought major changes in improving administrative efficiency and management transparency. With a driver's license, the recording of academic data, attendance, and school finances becomes more systematic and easily accessible to teachers, administrative staff, and parents of students. The main advantage of this system is its ability to provide access to information in real-time, allowing for faster, data-driven decision-making.

However, the implementation of this technology still faces various obstacles, especially in budget constraints, lack of training for educators, and challenges in maintaining data security and regulatory compliance.

Nonetheless, with the right strategy, SIM can be a very effective tool to improve the quality of education in Islamic schools. Intensive training for teachers and administrative staff, better budget allocation for the development of technological infrastructure, and the implementation of strict data security policies are important steps for this system to run optimally. In addition, the involvement of parents and communities in supporting the digitalization of education can also accelerate the adoption of driver's licenses, creating a more modern, transparent, and accountable education ecosystem. With this system, public trust in Islamic schools has also increased, because school management has become more professional and open.

In the future, further research is needed to develop a model for the implementation of SIM that is in accordance with the characteristics of Islamic schools, both in technical aspects and Islamic values that must still be maintained. In addition, an in-depth analysis of the effectiveness of HR training and the best strategies for overcoming resistance to change can help schools adopt technology more smoothly. Last but not least, data security in the school's digital system needs to be continuously reviewed to ensure that sensitive student and school information remains protected. With a more mature and research-based approach, SIM can be the main key in building an Islamic education system that is efficient, transparent, and ready to face the challenges of the digital era.

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