

THE IMPLICATIONS OF THE IAIN MADURA'S DIGITAL LIBRARY ON IMPROVING STUDENTS' DIGITAL QUOTIENT SKILL

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Abstrak

The era of digital industry 4.0 and society 5.0 has led to digitalization in various aspects of life. One of them is the existence of a digital library at IAIN Madura which makes it easy for the academic community to access information. Especially for PGMI Study Program students in increasing digital quotient. The purpose of this study was to analyze the implications of the digital library of IAIN Madura in increasing the digital quotient of PGMI Study Program students. The research method is qualitative, through a descriptive approach. The data collection was obtained through observation, interviews and documentation. The subjects of this study were 150 students of the PGMI Study Program. The results of this study indicate that the implications of the digital library of IAIN Madura in increasing the digital quotient of PGMI Study Program students are developing cognitive abilities, digital skills, emotional intelligence, digital literacy and social skills.

Keywords: *Digital Library, Digital Quotient.*

INTRODUCTION

The development of the times in the era of digital industry 4.0 and society 5.0 shows the use of technology in various aspects of life. There is a shift in activities that are more flexible in using technology. One of them is the IAIN Madura library, where initially visitors had to

come to the library and now it has been accessed through various digital services through the digital library of IAIN Madura. There are e-book, repository, and e-theses services that make it easier for students to do their assignments or improve literacy. This has an impact on increasing the digital quotient of PGMI Study Program students in using the digital library of IAIN Madura.

The IAIN Madura library always improve, carry out various upgrading services in accordance with the times. This is what makes the IAIN Madura library accredited A. Library policies are guidelines or guides in library management set by the authorities. Library policy has the objective of ensuring that the library operates effectively and efficiently, as well as providing useful services to users.

A digital library is a library that has a large collection of books in digital format and which can be accessed by computer (Arum & Marfianti, 2021). So that the library users or users can access from various places and without any time limit. There is a value of flexibility in using digital libraries in increasing user literacy (Senjaya & Susinta, 2022).

This indicates a new breakthrough in reading literacy through technology in the library sector. A digital library is a library whose collections are presented in digital format and can be accessed via the internet. Digital libraries have very diverse collections, such as books, journals, articles and other documents provided in digital format. Digital library users can access the collection from anywhere and at any time using a computer, tablet or smartphone connected to the internet. Some of the advantages of digital libraries include:

1. Easy access: Because it can be accessed via the internet, users can access digital library collections from anywhere and anytime.
2. Complete collections: Digital libraries have very diverse collections, of various types and topics, making it easier for users to find the information they need.
3. Cost-effective: Users don't have to pay transportation fees or library fees, as they can access digital library collections from their own devices.
4. More environmentally friendly: Digital libraries reduce paper usage and create a more environmentally friendly environment.
5. Ease of search: Digital libraries provide search facilities that make it easy for users to find the information they need.

However, there are also several challenges in the development of digital libraries such as copyright issues, information security, and internet network reliability which can affect the accessibility and availability of digital library collections. Therefore, it is necessary to make efforts to overcome these challenges so that digital libraries can provide optimal benefits for their users.

IAIN Madura digital library services consist of e-book, repository, and e-theses services. The process of borrowing books can be accessed through e-book services, where users of this

service can access books according to the wishes of the users. Librarians who are looking for a scientific work can access the repository service at IAIN Madura. Readers can access previous research through e-theses services.

PGMI Study Program students are users or users who often carry out activities in the Madura IAIN library. The number of tasks that PGMI Study Program students have, especially in completing a scientific work, mini research and other assignments. Requires a lot of literacy through digital library services at IAIN Madura. Although IAIN Madura's digital library services still have some drawbacks, they have a positive effect on their users. This corresponds to students' ability to use digital quotient wisely (Rahmawati, 2021).

This is in line with previous research with the title, "Digitalization of the Library of the Madura State Islamic Institute as an Effort to Fulfill User Services Since the COVID-19 Pandemic". There are a variety of the latest digital-based library services as well as the development of digital applications to serve users since the Covid-19 pandemic. The newest digital library service at IAIN Madura is a digital self-lending service. Meanwhile, digital services that are undergoing application development include e-book, repository, and e-theses services. As for efforts to fulfill user services through library digitization, namely consolidating information technology (IT) teams, developing application programs, and adding library application programs to the Madura IAIN. All of these digital services are very important to be accessible and enjoyed by users during the pandemic and after the Covid-19 pandemic. This is because users still get maximum service with these digital services (Wahyudi, 2022).

The results of the analysis of previous research with the title, "Prime Service of Digital Libraries in Improving Students' Digital Quotient". This describes the excellent service is important in meeting the needs and satisfaction of users. The provision of quality digital library services provided by librarians to students is an indicator of the success of the school literacy movement in school digitization. Digital intelligence and digital culture are important components of librarians in realizing excellent service, later able to produce graduates who are intelligent, competent and highly competitive in creating innovations from various digital aspects who are skilled and have skills, especially in the field of technology. In the era of the industrial revolution 4.0, librarians are required to continue to develop their ability to apply technology in improving service excellence which demands satisfaction and the value of their information needs. The implementation of prime digital library services has an impact on students in increasing students' digital quotient in the millennial era (Firdausi & Mudjito, 2021).

The third previous research entitled, "The Impact of the Digital Era on Libraries as an Effort to Attract the Millennial Generation". By paying attention to aspects of developing environmentally friendly digital library technology, such as library makerspace, Google Glass, digitization, big data, cloud computing and augmented reality. The concept of develo-

ping libraries in the digital era includes three things: user experience, data-supported collections, and collaborative innovation (Prasetyo, 2019).

Based on the three previous studies above, it can be seen that there is an IAIN Madura digitalization service that makes it easier for users. The importance of the process of providing excellent service in increasing students' digital quotient in supporting the generation of literacy in schools. As well as efforts to attract the millennial generation to love an increasingly developing digital era. This shows that there are differences in research according to the volitional characteristics of the subjects. There is a scientific novelty in this research in analyzing the implications of the digital library of IAIN Madura in increasing the digital quotient of PGMI Study Program students.

Method

The research method is qualitative, with a descriptive research type. Qualitative research method is a research approach used to understand phenomena from the perspective of participants and their social context. This method aims to explore the meaning and interpretation given by the participants to the phenomenon under study, as well as to understand the social context in which the phenomenon occurs. Descriptive research can also be used to describe processes or events, such as research on how someone learns or how an organization operates.

The data collection was obtained through observation, interviews and documentation. The subjects of this study were 150 students of the PGMI Study Program, but 25 students were taken in knowing the digital ability quotient of PGMI Study Program students. Observations were made by observing PGMI Study Program students in using the digital library at IAIN Madura. This aims to find out the digital quotient of PGMI Study Program students in carrying out an assignment in lectures. Interviews were conducted with PGMI Study Program students through question and answer according to the question indicators. The data analysis of this research used descriptive regarding the implications of the digital library of IAIN Madura in increasing the digital quotient of PGMI Study Program students.

RESULTS AND DISCUSSION

Result

A digital library is a collection of information that is stored and serviced using technology (Mulyadi, 2016). There is also an organization that provides sources of information according to experts in selecting, translating, accessing, disseminating and maintaining the unity of books or scientific works in a data bank. Whether it's books, scientific works or borrowing processes using digital formats. Computer and network technology is an important component in a digital library.

The process of developing digital libraries pays more attention to: (1) the organizational approach and management of digital libraries, (2) the approach to implementing information technology, (3) the approach to access policy and information regulation, (4) the approach to implementing multicultural values and (5) develop cooperation in sharing resources (resource sharing). Then as a modern society, libraries require higher education ppoiu. As one of the strategies to meet the digital era 4.0 and society 5.0. Digital library development is a process of designing, developing, and implementing a digitally integrated library system, which allows users to access library collections and services online via the internet network. The goal of developing digital libraries is to provide library services that are more accessible and more efficient, and allow users to access library collections from anywhere and at any time.

The following are the stages in the development of digital libraries:

1. Analysis of user needs: The initial stage in developing a digital library is to analyze user needs, such as the type and format of material needed, as well as the type of service expected.
2. System design: After analyzing user needs, the next step is to design a digital library system, including a collection management system, metadata management system, and user interface.
3. Application development: After designing the digital library system, digital library applications must be developed and tested.
4. Implementation: After application development is complete, the digital library system must be implemented in a production environment.
5. User training: Digital library users should be provided with training on how to access and use the digital library system.
6. Evaluation and improvement: Digital library development should be evaluated regularly to find out whether the system is functioning properly and meeting the needs of users. If necessary, repairs or changes can be made.

The development of digital libraries can provide many benefits, such as increasing the accessibility and efficiency of library services, reducing the costs of procuring and storing library materials, and expanding the reach of users. However, there are also several challenges that must be overcome in the development of digital libraries, such as data security and user privacy issues, as well as issues of authenticity and integrity of library materials. Therefore, efforts need to be made to develop and implement appropriate policies and procedures to address these challenges.

The Madura IAIN Library also has a variety of digital services that make it easier for users to access their collection of books or scientific works. There are 3 digital library services, namely: e-book services, repositories, and e-theses. These three services have diffe-

rent service objectives according to their respective functions. The following is a description of the 3 digital library services available at IAIN Madura, namely:

E-book service, is an application that makes it easier for its users to read a book or reference. This can be seen from the ease of the IAIN Madura e-library application in the play store application. So that readers can easily get references and knowledge that they will enjoy. E-books make it easy for users to enjoy the learning process easily, flexibly and can be used anywhere via electronics (HP/Laptop) (Lestari et al., 2016). The advantages of e-books are fast data traceability, can be used anywhere with an internet connection, can be modified according to the times, portability, variety, additional features, and has space savings in a collection of books (Fahrizandi, 2019). There has been progress in the use of more flexible information media, as well as making it easier for students to prepare a paper assignment, thesis or produce other scientific work. Shows the existence of a learning process that is integrated with technology and the suitability of the times. It is this service process that makes IAIN Madura produce various academic works that are in line with the digital 4.0 era and society 5.0. This can be seen from the display of e-book or e-library services at IAIN Madura via the link: <https://play.google.com/store/apps/details?id=id.kubuku.kbk28015c8>.

Repository service, which is a service dedicated to displaying scientific work from students, lecturers, education staff made by the academic community of IAIN Madura. The scientific work produced is usually in the form of books, journals, research reports, PKM reports, and so on. This collection, owned by IAIN Madura residents, can be enjoyed via cell-phones/laptops that are connected to wifi to make it easier for readers to enjoy this service. Repository is a place that is used to store scientific works for a long time through digital information resources (Sinaga, 2021). In essence, a repository is a digital management and dissemination of scientific work information (Suwanto, 2017). The existence of this service makes it easier for students to improve literacy skills, so that they can produce advanced or newest scientific work according to current conditions. Apart from campus residents, everyone who has access to this service supports scientific work. Based on our findings, the IAIN Madura repository service can be enjoyed via the link: http://repository.iaimadura.ac.id/cgi/search/archive/simple?screen=Search&dataset=archive&order=&q=mutik&_action=search=Search. The link can be enjoyed by its users by registering first. Only then can the collection of scientific works be enjoyed in various accesses.

The e-theses service, is a digital access service in accessing a collection of student final assignments via the <http://etheses.iaimadura.ac.id/> link. So that students can upload their final assignments directly through the page. E-theses in Indonesian can be interpreted as an electronic thesis, which means that it is a student scientific work in electronic form (Andayani, 2018). The existence of e-theses services facilitates academic services, of course, supported by open access in increasing visits to the web (Nurmaliati, 2017). This shows that there is

an easy e-theses service process in conveying information to anyone regardless of distance, space and time. Of course with the support of open access which facilitates the use of this service in a better direction. With this digital era, making a work more enjoyable by anyone. This allows anyone to access and read the thesis or dissertation for free without having to pay an access fee. However, there are also several higher education institutions that only provide limited access to their theses or dissertations through e-theses services. With the e-theses service, students or researchers can easily access published theses or dissertations in electronic form. This allows them to carry out further research and get references from the thesis or dissertation. In addition, this service also facilitates the storage and archiving of theses or dissertations by higher education institutions.

Based on the results of observations of 150 PGMI Study Program students who were randomly conducted in each class, 25 students were taken in knowing the digital ability quotient of PGMI Study Program students. Digital quotient is a digital intelligence that is now an integral part of human life (Rozas et al., 2021). Like it or not, after the pandemic, we are used to using technology that makes our lives easier. The use of technology must be supported by digital intelligence so that it is not easily fooled by hackers in cyberspace. Digital intelligence or digital quotient is a collection of various social, cognitive and emotional abilities in an individual in dealing with a life problem in the demands of digital life in accordance with societal norms (Santoso, 2022).

Based on the data obtained, the digital quotient (DQ) is an individual's ability to understand, master and use digital technology effectively and efficiently. DQ capabilities include:

1. Understanding and using digital technology, students understand and use digital technology such as computers, smartphones, internet and applications. Ability to produce, access and utilize information digitally.
2. Critical skills, students are able to evaluate the truth and quality of digital information.
3. Collaboration skills, students communicate effectively and collaboratively through digital technology. Ability to solve problems using digital technology
4. Digital ethics, students are able to protect the privacy and security of digital data. As well as having the ability to participate positively and ethically in the digital world. Good DQ skills are essential in today's digital era, where digital technology is increasingly influencing everyday life and the world of work. Individuals with good DQ skills will more easily adapt to changes in technology, increase productivity, and maintain data privacy and security.

The results of the interviews showed that there was an increased digital quotient of students since becoming students of the PGMI Study Program, Faculty of Tarbiyah IAIN Madura. One of the excerpts from an interview with students in Batch 2022, "Since becoming a student I have been able to understand the role of technology, not just for chatting or

social media. However, technology can be used to increase knowledge by accessing various services in the IAIN Madura library. Even though they didn't understand at first, the lecturers and librarians were friendly in explaining each of the services in the library. Whether it's electronic services or direct services, my friends and I understand the SOPs for using library services."

In addition to the digital services in the Madura IAIN library, there are also entertainment services through the IAIN Madura library tick-tock. The Madura IAIN library can provide various information related to services, seminars, competitions that are being held at the Madura IAIN library. So that users can actively visit the library and find out information related to services available at IAIN Madura. This service is provided by the library with the aim of making it easier for users to access information resources without having to come to the library physically. Library digital services make it easy for users to access the information resources they need anytime and anywhere without having to come to the library physically. This also allows users to obtain information more quickly and effectively and increases time and cost efficiency in accessing information resources.

Discussion

Digital libraries have important implications in improving students' digital quotient (DQ) skills. In a digital library, students can get easy and fast access to relevant and up-to-date digital information resources. This allows them to deepen their understanding and skills in utilizing digital technologies and enhance their DQ capabilities. The implications of the Madura IAIN digital library in increasing the digital quotient of PGMI Study Program students include:

1. Develop the cognitive abilities of PGMI Study Program students in using IAIN Madura digital library services. This is of course in accordance with the excellent service of the library in increasing the digital quotient (Firdausi & Mudjito, 2021). So that the ability of PGMI Study Program students in using technology is better in dealing with hoax news or information.
2. There is an increase in digital skills in accessing various sites in the digital library of IAIN Madura. Shows an increase in digital skills during a pandemic in using digital information and various digital applications that are beneficial to human life (et al., 2021). PGMI Study Program students are able to use digital skills in a more positive direction. In producing scientific works, media and textbooks at the MI/SD level.
3. Emotional intelligence in using digital libraries, which is adapted to the network owned by PGMI Study Program students. There is an effect of increasing emotional intelligence in a programmed habit (Rokhim & Prakoso, 2022). This shows that there are good habits and patterns in the existence of digital libraries in managing the emotions of PGMI Study Program students.

4. There is an increase in digital literacy of PGMI Study Program students who are better at utilizing the IAIN Madura library facilities. There is habituation, development and learning in the process of increasing digital literacy (R. Hendaryan, Taufik Hidayat, 2022). So that the ability to read and understand students in an electronic work is better. Able to protect the existence of acts of plagiarism in a scientific work.
5. Improving social skills in the process of digital library services at IAIN Madura. This shows that there is a good parenting pattern in conducting relationships with other humans (Supriyanto, 2016). Although through cyberspace or electronic-based services it also makes students able to socialize in various positive ways. Provide constructive criticism and suggestions on the social media of the Madura IAIN Library. So that in the future excellent service can be felt by all students and the academic community at IAIN Madura.
6. Provide easy and fast access to digital information resources: Digital libraries allow students to access various digital information resources such as electronic journals, e-books, and online databases. Thus, students can deepen their understanding and skills in utilizing digital technology.
7. Enrich student learning: With easily accessible and up-to-date information resources, digital libraries can enrich student learning and assist them in acquiring broader and deeper knowledge of the topics they study.
8. Develop critical and creative skills: With a variety of available information, students need to develop critical skills in evaluating the truth and quality of information as well as creative skills in using this information to solve problems or create new things.
9. Improve collaboration skills: Digital libraries enable students to work together in the use of information resources and share knowledge and skills in utilizing digital technology. This can improve their collaboration skills in working as a team in the future.

Thus, the digital library can be an important tool in improving students' DQ abilities, so that they can be better prepared to face challenges in the ever-evolving digital era.

CONCLUSION

The implications of the Madura IAIN digital library in improving the digital quotient of PGMI Study Program students are developing cognitive abilities, digital skills, emotional intelligence, digital literacy and social skills. Cognitive ability in producing scientific work. Digital skills in supporting the development of the digital 4.0 and society 5.0 eras and eradicating the spread of hoaxes about information. Digital literacy in improving the ability to read digitally in producing a work that is relevant to the facts on the ground with the integration of literature. As well as having an impact on social skills with the wider community because of the process of disseminating information through digital library services at IAIN Madura. Future suggestions for readers are a follow-up to the perfection of this research to

be better according to the times. As well as there are several shortcomings in the writing of this work, there will be better improvements by future researchers. So that the value of its usefulness can be enjoyed by the wider community.

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