The Role of E-Books in Improving Learning Achievement of Integrated Islamic Junior High School Students

Rini Nuraini 1, Uwe Barroso 2, Indah Mukarromah 3, Amina Intes 4, Qoidul Khoir 5

1 Universitas Nasional, Indonesia
2 Isinki University of Helsinki Finland, Finland
3 Universitas Pesantren Tinggi Darul Ulum, Indonesia
4 University of Southern Denmark, Denmark
5 Sekolah Tinggi Ilmu Syariah Nurul Qarnain Indonesia

Corresponding Author: Rini Nuraini, E-mail: rini.nuraini.unas.ac.id

ABSTRACT

At this time the world of education has depended on technology and the internet, all education personnel utilize technology as a tool in the teaching and learning process. Likewise, the role of E-books in improving student achievement at school at this time. The purpose of this study was to determine the role of E-books in improving student achievement by applying E-book media as an innovative learning media. The type of research method used is a quantitative method with a survey model and distributes online-based questionnaires via google form. Researchers hope that the results of the research conducted can increase student understanding through the E-book platform as a support in improving learning achievement. The conclusion of this study is that the role of E-books for students can help in improving student learning achievement. Therefore, the limitation of this research is that researchers only conduct online surveys and are not conducted thoroughly only in certain schools, researchers hope that future researchers can conduct research in other schools to make it more effective and efficient.

Keywords: E-book, Internet, Learning Media

INTRODUCTION

The development of technology at this time is so fast that it has a huge influence on people's lives, especially in the world of education (Li et al., 2018; Pardi et al., 2018; Pushpakom et al., 2019). Internet technology is a set of media related to many impacts,
both positive and negative impacts in utilization to improve student learning achievement (Katoh et al., 2019; Wang et al., 2020; Zhou et al., 2020). Internet technology began to be recognized along with the times and how the role of humans in creating new things related to technological developments to be utilized by many people. It can be proven in this day and age where everyone has used technology in a very diverse learning process with the development of technology. By using technology in the learning process, it will make it easier for students to find learning materials according to what they want.

The internet and the world are very side by side, technological developments have an impact on education as well as rapid developments forcing all parties to be more creative and innovative in developing and creating new technologies (Dong et al., 2020; Perez-Riverol et al., 2019; Waterhouse et al., 2018). The internet plays a very important role in education because it can facilitate educators in developing information and communication. The internet is also very much needed in the world of education, the internet is not specific to one school, it can be utilized by elementary schools, junior high schools, and also high schools (Letunic & Bork, 2019; Vosoughi et al., 2018). However, it is more specialized in Integrated Islamic Junior High School. Educators can also play an active role in creating various technologies that are needed in the world of education so that the learning process is not focused on print media only provided at school.

This rapid development of technology has given birth to many learning media that can be used by educators (Baltrusaitis et al., 2019; Selvaraju et al., 2020; Son et al., 2020). The sophistication that has penetrated into the world of education makes schools play an active role in providing the facilities and infrastructure needed by students. In addition, teachers are also responsible for selecting learning media to support the learning process in class (Beam & Kohane, 2018; Cha et al., 2018; Ting et al., 2020). Teachers are required to be creative in choosing methods or strategies for delivering material, the quality of learning will be seen with the active role of students who do not only rely on educators (Macaro et al., 2018; Polsinelli et al., 2020; Radianti et al., 2020). Those who are not good at sorting out the use of technology will have a negative impact on their lives, unlike individuals who can apply technology properly will facilitate their work such as E-books in the world of education that can be accessed by every user.

In the past, people did not know what technology was, so over time this technology began to be developed or created to change lives (Oztemel & Gursev, 2020; Panáček et al., 2018; Parks et al., 2018). At this time people began to create technology, one of which was E-books. E-books are a set of online-based learning media that contain learning materials with ease (Orben & Przybylski, 2019; Perera, 2017; Wagner et al., 2018). E-book is an application that contains learning materials that can be used by every student or teacher. This application can be used by all the world of education but the use of E-books is specialized among Integrated Islamic Junior High Schools. At that level students will need extensive knowledge and insight for continuity in learning
(Bell et al., 2020; Hu et al., 2020; Mattioli et al., 2020). In using digital-based books, creative and innovative students will be realized, here educators play an important role in continuing to introduce students to the benefits of the application (Lee-Six et al., 2019; Patel et al., 2019; Vanapalli et al., 2021). Here among schools, especially at the junior high school level, do not know this application, therefore a teacher must introduce it to students.

All gadgets can access this application such as smartphones, laptops, computers and so on. The use of E-books is highly utilized by educators because it is a means of supporting learning in fulfilling learning materials that are more creative and innovative to run (Albawi et al., 2017; Sun et al., 2019; Wang et al., 2020). E-book itself aims to facilitate educators in disseminating learning information to the object of students being taught. E-books are electronic books that can be accessed through application media with android-based technology support facilities that can be read through computers or smartphones (Chou et al., 2018; Elgrishi et al., 2018; Sharafaldin et al., 2018). E-book applications make it very easy for educators and learners to use (Lee-Six et al., 2019; Ozturk et al., 2020; Ying et al., 2018). The existence of E-books makes educators and also students in finding learning materials not focused on existing libraries. All educators can make books that are easily accessible using smartphones that have been used before.

This E-book application is often used in the world of education because the E-book application can provide knowledge to educators and students in the learning process, the E-book application can make it easier for educators and students to seek knowledge so as not to focus too much on print media with this application can develop the creativity of educators and students can also develop skills in the world of technology, in the E-book application there are various sciences and relevant sources so there is no doubt about the quality (Klebanov et al., 2019; Rysavy et al., 2021; Uscher-Pines et al., 2022). That way educators can access learning resources from the E-book application which can later be shared and given to students who can increase the knowledge of these students. In using this E-book application, students are given the convenience that is no longer difficult to find material that is a problem in the learning.

This research has been conducted by researchers has a very close relationship and has been researched by previous researchers (Govindu et al., 2021). Among them examines maximizing learning with E-books and multimedia-based learning media to improve student achievement (Yan & Yang, 2021). The data analyzed using the autonomous test with the test sample calculation test results show that the calculated value of the increase in student learning using E-books and multimedia-based learning media. E-books can be described as a source of learning in the world of education and can be developed as teaching materials for classroom activities (Hair et al., 2019). Regarding the use of E-book media, it can foster the enthusiasm, interest and potential of students so that the achievement of educational goals to form good and capable individuals, civilized so that they become good individuals.
Using this E-book application is very beneficial for educators and students, especially in finding material that is discussed, this E-book application is mostly used at the high school level to university students, because at this level students are required to be creative in finding material that is the source of the problem, with this E-book application students are not only focused on print media but more on meeting the latest materials from this E-book, so that students' insights will increase and be broader. So that when the educator explains the material, students can immediately quickly capture the learning delivered by the educator because students have mastered the learning material from their respective gadgets so that educators will have no difficulty in explaining this learning material. That way this application is very necessary in the world of education so that students are more updated about the sophistication of technology today.

**RESEARCH METHODOLOGY**

The method used by researchers is to use quantitative methods. This quantitative is a method that focuses on in-depth observations that prioritize knowledge in the form of numerical data as a means of investigating facts about what will be known. This research was conducted in a way in which the implementation was carried out with a survey model and in-depth interviews. The subjects involved include students at one of the Mutiara Hati Payakumbuh Integrated Islamic Junior High School (Chu et al., 2020; Rodriguez-Morales et al., 2020). The survey method used is directly related to the research objectives which will analyze the student's place related to using the E-book application. The purpose of this quantitative method is to analyze and recognize the observations of educators and students on the use of the E-book role in improving the learning achievement of Integrated Islamic Junior High School students in the odd semester of 2022/2023 (Fischer, 2022; Kibadi, 2021). The reason for choosing this time is because E-books in general have been widely used such as educators and also students. Educators can conclude how the utilization of this E-book application during education. Researchers conducted research at one of the Integrated Islamic Junior High School Mutiara Hati Payakumbuh.

The source of this research comes from educators and students from the Mutiara Hati Payakumbuh Integrated Islamic Junior High School who have been researched by researchers through questionnaires or google from which have been distributed online, resulting in a variety of responses related to the role of E-books in improving student learning achievement. From the questionnaire or google from researchers know the extent to which educators and students apply the role of E-books in learning to improve student achievement in learning (Agha et al., 2019). The use of E-books implemented in each school is useful to support the learning process which is currently using more sophisticated technology such as cellphones, laptops, computers, and so on. From here it can be seen to what extent the role of E-book can develop, whether it can help learning or there are still many obstacles or obstacles that still exist.
The research data that has been analyzed quantitatively is by using google from or a questionnaire which is sent to educators and students as a whole which aims to see the percentage of each question that has been distributed by educators and students (Bray et al., 2018; Harris et al., 2019; Jumper et al., 2021). The results of the data that has been obtained, which is done by survey and questionnaire, will be described in the discussion and results later (Voysey et al., 2021). The questionnaire links or questionnaires that have been made or distributed are then collected into data. Percentages will be described through bar charts and reviewed with previous research and expert opinions that are relevant and correct. Suggestions and criticisms from validators are used as a reference, guideline and basis for renovating or changing the question descriptions from the questionnaire that the researcher distributed. This media can also function as a substitute for more modern media.

RESULT AND DISCUSSION

In this day and age, technology has a huge impact on the level of education where all must be required to be able to use the newly created technology. The impact is very influential on learning where everything must be able to use new technology. Especially the E-book application which is very useful for educators and also students in finding material for the learning process at this time. One of the schools that uses the E-book application is the Integrated Islamic Junior High School with the aim that the school wants to improve the learning achievement of its students and support the learning process by applying the new technology that has emerged. For users of the E-book application, it is expected to know all the important ways in this application so that when using it no errors occur.

E-book applications are very necessary in the world of education which greatly relieves educators and also students in finding material or information because this E-book can help in finding books that are not in the library. E-book is an application that requires an internet network to be able to access it. This application makes it very easy for educators and also students to bring material that has been searched in this application because it is only stored in the form of files so that it relieves educators and also students to carry it. E-books are very important to use in learning but there are several obstacles that occur in using this application such as networks that are always problematic or are in places that are far from internet coverage can sometimes cause this application to become an error so that it is difficult to access. Before students use this application, educators should provide direction first so that the teaching and learning process can take place properly.

E-books can be used for learning media
Based on the results of the questionnaire that has been distributed by researchers to educators and students in educational institutions so that researchers can get very fast results when conducting surveys through google from questionnaires. From the responses of educators and students, researchers get a variety of answers regarding E-books can be used as learning media. Based on the diagram data above, researchers can conclude that as many as 52% of 50 people who think agree and as many as 43% of 50 people who think strongly agree if this E-book application is used during learning. About 5% of the 50 people stated that they moderately agreed with the implementation of this application. This is because the E-book application requires an internet quota and a good network to be able to access it so that no problems occur when accessing it.

E-book applications can make it easier for educators to find material learning at this time does not depend on print media alone but can use technology. Judging from the questionnaire filled out by students, 52% of the 50 people who chose strongly agreed on this E-book application for learning media. About 41% of
The Role of E-Books in Improving Learning Achievement of Integrated Islamic Junior High School Students

the 50 people who stated agreed to this application and about 7% of the 50 people who stated moderately agreed to the above statement. The statement strongly agrees which is the highest reference of the opinion of students who have used this application. The use of E-books is very convenient for educators and also students when learning because the E-book application makes it easier for students to find material so that educators are not too difficult to explain a material to students. E-books in general can be used in all kalanga E-books can be accessed in various places using a cellphone or laptop but the obstacle often occurs due to inadequate network quality which can interfere with students in finding material to be sought.

E-books are very easy to use for learning media

The use of E-books is very easy to use for learning media so that in the survey results by researchers obtained around 45% of 50 people strongly agree with the option that E-books are very easy to use for learning media. Coupled with the pandemic last year, where all activities were carried out at home without exception as well as in the world of education which was carried out online so that at that time the E-book application was needed by educators and students in finding learning materials. From the survey results, researchers also found that around 38% of the 50 people who agreed with the option then around 11% of the 50 people who moderately agreed with the option of using E-books were very easy to use for learning media. Then about 3% who disagree with the use of E-book applications are very easy to use in learning media. Basically, the use of this E-book is not really needed by students who are still in elementary school. Usually the use of this E-book application is used at the high school education level and also among students.

By using E-books students can understand the learning material well.
Using E-book, students can understand learning material well, from the results of a survey distributing questionnaires by researchers, it was found that around 30% of 50 people strongly agreed with the option that using E-book students can understand learning material well then 52% of 50 people agreed with the use of this E-book about 12% quite agreed with the option, then only 3% disagreed with the option that using this application can understand learning material. Judging from its utilization, this E-book application is very useful in the world of education because in the E-book application there is a lot of material that can be accessed in every circle, especially among educators and is also not wasteful in using internet data. Only by looking for the material needed quickly this E-book application issues materials from various sources, so that students no longer need to focus on sources in print media only so that students are not bored in seeking knowledge.
The results of the researcher survey obtained 39% strongly agree with the option that E-books can be used by all educators 43% agree with this option 23% moderately agree then only 2% disagree with this option. As it is known that educators really need a lot of knowledge and to teach their students so that with the E-book application it really helps educators to find sources of knowledge which are then taught to students, in the E-book application educators can get a variety of materials with various sources that already exist in it so that educators are not focused on print media to find knowledge to be given to students, with the E-book application educators can also provide the latest information about a material, so that students know things that were previously unknown.

The use of E-books can improve student learning achievement

With the E-book application can improve student learning achievement through a survey, researchers found that with this E-book application around 36% of 50 people strongly agree with this option then 42% of 50 people agree that the E-book application can improve student achievement in learning, if the results are obtained 19% of 50 people quite agree with this option but only 2% of 50 people disagree with the use of the E-book application can improve student learning achievement. as is known that the use of technology is so sophisticated that students can easily access anything in the internet media including the use of E-book applications for the learning process needed at this time so that students are not too focused on print media alone, As it is known that the use of technology is so sophisticated that students can easily access whatever is on the internet media including the use of E-book applications for the learning process which is needed at this time so that students are not too focused on print media alone. However, the use of internet media for the learning process sometimes does not run effectively because in the use of internet media there are features that can interfere with students' concentration in finding the material, so the use of internet media is not really needed by students who are at the elementary school level because at that age children
cannot distinguish between good and bad so the role of parents is needed to accompany their children in the learning process.

E-books must use a high quality network

When using this E-book application, a high quality network is very necessary, as in the results obtained by researchers from a survey, 44% of 50 people strongly agree with this option. 37% of 50 people agree with the use of the E-book application which requires a high quality network. 14% of 50 people quite agree with using this application then 2% of 50 people disagree with its use. Apart from the many benefits of using e-books in the learning process, there are also obstacles such as networks that are difficult to access in certain places, which causes the application to experience errors and be difficult to access again. So users of the E-book application feel bored and fed up because they have to wait too long for this application to become stable again.

E-books will change the level of understanding of students
The results of the researcher's observation of the percentage of students regarding learning in the E-book application. By using this application students can understand and understand the material first. In the results of the survey that researchers conducted, around 49% of 50 people agreed with the above option, then 41% of 50 people strongly agreed and 20% of people said they quite agreed that E-books can change the level of understanding of students. The application used by students cannot guarantee that they understand or understand the material contained in it, but educators are still needed to explain the learning material so that it is clearer. Sometimes there are students who have not used cellphones before, which can result in students not understanding how to use this application.

![Learning will be interesting if you use e-books](image)

Researchers can conclude that regarding the questionnaire that has been distributed to all educators and students, there are 31% who strongly agree with the options that researchers have provided. The percentage that was mostly filled in was the statement of agreement, as much as 42% of the 50 people who filled out the questionnaire and around 24% of the 50 people who quite agreed. The learning process using the E-book application will create educators and students who are superior and creative in creating new technology. Using E-books, students do not feel bored, but students can understand the material first so that they can help educators in learning. With E-books, educators are not focused on using print media alone, but educators can find more in-depth material, towards a material that is addressed or discussed in a subject.

E-books can improve student learning achievement in Integrated Islamic Junior High Schools
It was found that 34% of the 50 people who submitted strongly agreed, especially educators and students who previously only relied on print media can now use technology with their respective gadgets. Then 44% of the 50 people who have one option for this application, this percentage is the highest option and around 16% of the 50 people who quite agree with this option. The use of this E-book application is very helpful for educators and students as well as in the world of education because E-books are very easy to use and can even be installed on cellphones, laptops and computers as well as requiring educators to be more creative in creating new technologies. and educators can also participate in creating new technology. This can improve the quality of learning and cause learning to become more creative.

According to a survey conducted by researchers on students from the ten questions above, they predominantly chose to agree if this E-book application was used as a means and infrastructure to support student learning in order to improve student achievement and develop their talents and interests. The use of this E-book application also helps educators in carrying out their duties, namely providing knowledge and conveying learning materials to the students they guide so that the teaching and learning process becomes more effective and efficient and the learning objectives are achieved. Of the many problems that occur in education where technology is increasingly developing, it is hoped that educators will overcome this with solutions that collaborate with digital technology that currently exists, one of which is through the application of e-book applications.

Based on the survey described by the researcher, the allocation of E-books can improve student achievement, change the previously stiff and tense learning atmosphere to a more enjoyable one which revives students' enthusiasm for participating in learning. With the existence of this application, students at school can improve their achievements in various fields of learning and also for educators to use this application, it can be used in every subject, both general science and Islamic religion. The research carried out by the researcher this time only examines the role of E-books in improving
student achievement in integrated Islamic junior high schools and here the researcher hopes that in the future future researchers will be able to maximize the application of this application in various types of schools and various number of subjects available in that school.

CONCLUSION

It was at this time that people started to create technology, one of which was the E-book. E-books are a set of online-based media in which there are lots of learning materials that can be obtained very easily. This application is very easy to access via cellphone, laptop and also computer, but this E-book application is very specific to integrated Islamic junior high schools. Using this online-based book will create creative and innovative educators and students. The advantage of this e-book is that it makes it very easy to find learning materials. By using this application, educators and students do not focus too much on print media, because in this application there are lots of material sources and in it there are very clear details of the material, plus by using this application educators are lighter in explaining the material. The E-book application is very useful because by storing learning material only in a file it is no longer burdensome for educators who always carry printed media. This application requires each user to have electronic devices such as cellphones, laptops and computers. Apart from that, the weakness is that it has an impact on the eye health of someone who continuously looks at the monitor.

The E-book application can be applied in various schools, one of which is an integrated Islamic junior high school. An integrated Islamic junior high school can be defined as a school that applies very in-depth religious knowledge and the perception of Islamic education is based on the Koran and Sunnah. The operational plan for an integrated Islamic school is a process of guidance, transfer and development of Islamic religious teachings from generation to generation. At this school it is highly recommended to use the E-book application as a support for classroom learning. In this way, students can adapt to the rapid development of technology, apart from that it can increase enthusiasm for learning and the potential of students. This application also has an impact on the creativity of educators and students in the learning and teaching process.

ACKNOWLEDGEMENT

The researcher would like to thank Mr. / Mrs. teacher of students at the terpadi Islamic junior high school Mutiara Hati Payakumbuh who was willing to be a resource and subject in research on the role of E-books in improving student learning achievement. So that the results of filling out the questionnaire can make it easier for researchers to complete their research. Researchers hope that this research can be useful for educators and students both now and in the future. Hopefully this research can provide benefits for readers and future researchers.
REFERENCES


The Role of E-Books in Improving Learning Achievement of Integrated Islamic Junior High School Students


