Utilization of Digital Learning Media as Students Learning Alternative Solution

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Abstract. This study aims to describe the benefits of digital learning media as an alternative solution for student learning, as well as to describe the urgency of using dugutal learning media and the readiness of teachers to use learning media. This research is a qualitative research with literature review method. The results of this study indicate (1) the importance of using digital learning media is to improve the ability of teachers, meet the needs of students, meet the demands of the new paradigm, improve the quality of learning and meet long-term needs. (2) Teachers can take advantage of digital learning media such as youtube, e-learning, animated videos and podcasts. (3) Teacher readiness in using digital learning media requires teachers to have knowledge and skills. Post pandemic digital learning media is an alternative solution for student learning that is very effectively, efficiently, and can increase student interest in learning. Examples of digital learning media are youtube, e-learning, animated videos, and podcasts that are used to increase the effectiveness of the learning process. The use of appropriate learning media is very useful for increasing motivation in learning, therefore teachers have an important role to prepare digital learning media that can create a pleasant learning atmosphere.

Keywords: Digital Learning · Knowledge and Skills · Post pandemic digital

1   Introduction

The learning innovation of the impact of Covid-19 is currently opening a new paradigm for educational institutions. The level of education in Indonesia has experienced changes in teaching and learning activities, in which the face-to-face learning process in the classroom is not implemented [1]. The use of digital media and technology in the learning process is a solution in dealing with the challenges of the current post-pandemic development. There needs to be a renewal made by educators in the use of digital technology so that teaching and learning activities can run in accordance with learning objectives.

Post-pandemic learning patterns are inseparable from the use of the internet and the use of technology. The learning carried out at the current level of education is hybrid and blended learning, where digital technology has an important role in the learning process. In the implementation of learning activities in the digital era 4.0, teachers must create a pleasant learning atmosphere so that students have a high interest in learning.

The statement expressed [2] that no matter how sophisticated technology will never replace the role of the teacher, but teachers who do not want to learn technology will be replaced. This is the beginning of teachers to start pouring creative ideas to develop digital technology adapted for learning and education.

The development of education in the digital era allows students to be able to gain knowledge in abundance as well as quickly and easily. Educational reform in the digital era requires teachers to have the ability to integrate information and communication technology into the learning process [3]. The presence of digital media can be used to minimize gaps in education. There are many benefits that digital media provides in an educational context, including helping students work through difficult concepts, increasing student engagement in learning, helping to promote equity and helping promote critical awareness. Successful digital learning media are those that can change student behavior and improve certain student learning outcomes [2]. Utilization of internet facilities to facilitate the learning process that takes place between students and teachers. Teachers are required to make learning more innovative so that it can encourage students to learn optimally in a conducive environment for both independent and group learning.

Aspects that can increase student interest in learning are the use of innovative, interesting and efficient digital learning media. This is evidenced by the results of research conducted by (Nursyam, 2019) [4] which suggests that learning using information technology-based media can increase student interest in learning and student activities in the learning process have also increased, indicated by a significant increase.

The success of using digital learning media is inseparable from how the media is well planned. The use of effective learning media requires a comprehensive analysis by taking into account various aspects, including objectives, student conditions, supporting facilities, available time, and the ability of teachers to use them appropriately. Thus, through this paper, we will discuss the use of digital learning media as an alternative solution for student learning.

2   Discussion

2.1   The Urgency of Using Digital Learning Media

Digital learning media are learning media that work with digital data or can produce a digital image that can be processed, accessed, and distributed using digital devices [5]. Examples of digital learning media are youtube, e-learning, digital cartoons, and podcasts that are used to increase the effectiveness of the learning process. The use of appropriate learning media is very useful to increase motivation in learning, allows direct interaction, and allows students to learn independently. Digital learning media aims to facilitate learning and teaching activities. Therefore, the use of digital learning media is expected to improve the quality of the process and learning outcomes.

The reasons for the importance of using learning media are as follows:

1) Improving the ability of teachers, as teachers proactively study various digital media in using various information contained in the media or learning resources. Teachers

must know and be aware of how to use learning media creatively, innovatively, critically, and positively;

2) Improving the quality of learning, through learning media teachers can improve the quality of their learning by developing media that are in accordance with the learning conditions that will be implemented to activate students in the learning process;

3) Meeting the needs of students, it can be interpreted that learning media is very necessary to stimulate students' thoughts and emotions. So that it can clarify abstract material, describe something that is not affordable, increase students' attention. Simplifying complex materials, and increasing the imagination power of students' critical thinking;

4) Meeting the demands of the new paradigm, which means that teachers are required to provide opportunities for students to actively experience and interpret their learning activities;

5) Meeting long-term needs, it can be interpreted that the use of digital learning media provides a learning experience for teachers and students in exploring how to use the technology they need, such as teachers in providing material that is always creative and for students not to be technologically stuttering in entering higher education levels or entering the world of work.

2.2 Teacher Readiness in Utilizing Digital Learning Media

Along with the development of technology, a teacher is required to improve his ability in developing digital learning media. According to Arianty (2020) [6], digital content must be delivered in the learning process because there is a curriculum structure. Teachers have mastery of pedagogic competencies which include the use of information technology in learning activities to support success in achieving learning objectives. This encourages teachers to upgrade their teaching skills by participating in various kinds of digitalization training so that learning media can be creative, innovative and can build student enthusiasm.

In the current problems, learning in the classroom is still teacher-centered with conventional learning methods. This statement is in line with the opinion [7] which suggests that there are still many teachers who do not understand the use of digital-based learning media, one of which is e-learning. Therefore, teachers need training in the application of digital-based learning. Based on research that has been conducted by [8], teacher understanding and skills related to digital-based learning are urgently needed, so that the learning process and making learning media can run in accordance with the demands of current material and technological developments. All learning data that has been processed digitally will be easy to use for model use.

Factors that affect teacher readiness in digital learning media, namely the support from the work environment, this is in line with the results of research [6] which suggests that the factor of teacher readiness in technology-based learning is the teacher's understanding of information technology, support from school principals, and support from government agencies. And supported by research [9] that improving digital literacy skills starts from the teacher himself. Thus, the importance of teacher readiness in utilizing digital learning media to create innovative and fun learning.

2.3 Utilization of Digital Learning Media

Learning Innovation in the use of digital media has undergone significant changes. The emergence of digital media is a solution in responding to learning challenges in the 4.0 revolution era. The conventional and monotonous learning process will be replaced by learning using digital learning media that is more practical, efficient, innovative and flexible, and not limited by space and time. Digital learning media used by educators as alternative solutions for student learning are YouTube, e-learning, animated videos, and podcasts.

Youtube as a digital learning media is a learning resource for teachers and students that is easily accessible by displaying a variety of learning videos. YouTube media will expand students' knowledge, because the media provides a variety of information needed. Youtube has the potential to be used as an alternative media for student learning [10]. The use of YouTube as a learning medium can create interesting, fun and interactive learning conditions and atmosphere, in addition, it makes it easier for students in terms of practicum learning to find sources of technical tutorials for practicum implementation, and students can repeat the learning videos provided without burdening the teacher or instructor. When carrying out face-to-face learning in class, YouTube media can also be used for interactive learning. Therefore, YouTube plays a very important role in helping students learn various useful skills and make it easier for students to understand during learning.

E-learning as a digital learning media is a technology-based learning. The use of e-learning as a means of interaction between teachers and students provides convenience in learning activities. e-learning can shorten learning time and make study costs more economical. E-learning learning materials can be accessed systematically by students and teachers so that teachers can assess student progress. The materials used can be in the form of videos, files, and audio as well as electronic books. Learning activities are more effective and efficient because students and teachers can access them anytime and anywhere.

Animated video as a digital learning media is a driving force for students' interest in learning and enthusiasm in the learning process, because it displays images that attract students' attention in the form of moving cartoon images. Animated video is a learning innovation to attract students' interest in learning, this agrees with the results of research conducted by (Achmad, Fanani, Wali, Nadhifah, & Nurdiyana, 2021) [11] that animated videos provide learning innovations for teachers and students, the purpose of the video animation to attract students' interest in learning and can accelerate students' understanding of the subject matter. The use of animated video as a post-pandemic learning medium is very effective because it can make it easier for students to explore the material during online learning, this is in line with the results of research by Fisabilillah and Sakti (2021) [12] who stated that animated videos were declared feasible, effective and practical to be used as learning media in schools. especially when online.

Podcasts as digital learning media have become applications that are widely used to get the desired information through sound playback. Effective and efficient use of podcasts can increase learning flexibility, increase learning access variations, and simple player playback devices that can be listened to anywhere, anytime, even for students who are used to multitasking [13]. Podcasts as learning media must be well prepared as a

distance learning medium, some teachers use Google podcasts to deliver learning with content that builds students' creativity and reasoning [14]. Podcasts can make it easier for teachers to plan and organize the material that will be given to students, voice recording in making material can also be done repeatedly, in order to create interesting learning media, therefore podcasts can be an effective solution for students and educators in the process learning.

3   Conclusion

The results of this study indicate that (1) the importance of using digital learning media is to improve the ability of teachers, meet student needs, meet the demands of a new paradigm, improve the quality of learning and meet long-term needs. (2) Teachers can take advantage of digital learning media such as youtube, e-learning, animated videos and podcasts. (3) The readiness of teachers in the use of digital learning media requires teachers to have knowledge and skills. Digital learning media in post-pandemic is an alternative solution for student learning that is very effective, efficient, and can increase student interest in learning, examples of digital learning media are youtube, e-learning, animated videos, and podcasts that are used to increase the effectiveness of the learning process. The use of appropriate learning media is very useful for increasing motivation in learning, therefore teachers have an important role to prepare digital learning media that can create a pleasant learning atmosphere.

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