Application of flipbook learning media

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Abstrack

In today's digital era, technological advances are developing very rapidly, not least in the world of education. The world of education is also experiencing technological developments in teaching and learning activities. Learning in this day and age has progressed a lot with various methods. Teachers are required to make learning activities as interesting as possible so that students do not feel bored. One of the suitable media used for the learning process is flipbook learning media. Flipbook media is media that presents various videos, animations, audio with the aim of making learning interactive and interesting.

Keywords: flipbook, digital flipbook, comic flipbook.

Introduction

In the 20th century the world of education experienced very bad conditions, caused by the spread of the Covid-19 virus which resulted in the whole world not being allowed to carry out direct learning. Therefore, learning is done online. In this case, learning feels less effective, which is due to students being bored, and paying less attention to the material taught by the teacher. This is due to the lack of interaction by the teacher which is usually done during face-to-face learning. In this case the teacher is required to be creative in presenting learning material to make it more interesting.

Teachers must have a positive mindset in order to be able to apply online learning media, so as to produce quality learning outcomes. This COVID-19 pandemic period is an opportunity for the world of education, both in terms of technology utilization and Industry 4.0. Therefore, teachers need to be creative in developing learning media that is attractive to students' improvement, motivation, and learning outcomes. And in 21st century learning, teachers are required to master information and communication technology in addition to knowledge, skills and attitudes (Ramadhina & Khavisa Pranata,2022).

These abilities can certainly be honed through the utilization of various activity models in the context of the learning process. This activity model is based on the implementation of tasks that are in accordance with competency attributes and learning materials (Ari Nurwidiyanti, 2022). Learning is a change in behavior that is obtained based on experience and practice. This means that every educator must have the ability to make students' experiences meaningful so that every aspect of knowledge, skills and attitudes can be used as a guide for students at the next level (Herlina & Hadiyanti, 2021). Learners' understanding of the information conveyed by educators is the key to the success of education and the learning process (Sari & Ahmad, 2021).

Digital Flipbook-based learning media design is a learning media that is in great demand and is starting to be studied, as a transition from printed books and following the students' penchant for using laptops, smartphones or cellphones (Mohamad Fatih, AlaKhomaria , Lana Diyani Aswitama, Nurlaila Al Latif, 2023). Digital Flipbook is an application that can facilitate teachers in creating learning media by combining all elements such as image, text, audio, and video objects so as to create interesting learning media. Digital flipbooks are quite effective in the learning process (Nuzla Rizkia Rahma,Umar, 2023).

Research Methods

Elements, techniques, findings and implications of the learning models studied. To conduct the literature analysis process, analysts use analytical techniques such as Content Analysis or Thematic Analysis. This requires the researcher to find the main themes and underlying subthemes that emerge from the texts selected for study. After that, the researcher will organize these themes and discover various findings regarding the learning model under study. Studying published works offers several benefits, including:

1) Saving time and money. This method saves time and money because the documents needed already exist. Thus, there is no need to create new instruments. Also, this method does not involve creating new instruments.

2) Obtaining a more thorough understanding. By using this methodology, the researcher can gain access to various literature sources related to the learning model under study to gain a more thorough understanding of the research problem.

3) Obtaining comprehensive information. The documents used in the literature review approach usually provide thorough and organized information on learning models, making it easier for the researcher to conduct the analysis (Wantu et al., 2023)

However, the literature review approach has several disadvantages, the most significant being the potential for bias in the selection of documents and the lack of accuracy of the information obtained if the documents used are not authentic and accurate. Therefore, those conducting the research should pay close attention to the integrity and validity of the material included in the literature review.

Results and Discussion

No	Year	Author	Title	*Review*
1	2024	Yuyun Ariyanto, Muhammad Akhyar, Djono	DEVELOPMENT OF A FLIPBOOK-BASED MATH LEARNING MODULE TO IMPROVING CRITICAL THINKING SKILLS OF SENIOR HIGH SCHOOL STUDENTS (SMA)	(Yuyun, Ariyanto et al., 2018) This study discusses the use of flipbook-based mathematics learning modules in the learning process, where the learning process can improve students' critical thinking skills. The results of this study, it is evident that the learning module that has been developed is effective, with updates that researchers have on learning activities that are oriented and focused on students. As for the weaknesses of the research results where the flipbook-based learning module is widely used, but there are things that need to be considered, especially in a student's characteristics, there are teachers or instructors who bring learning materials.
2	2024	Alvira Hikma	Development of E-LKS	(Hikma et al., 2024) This research

		Maharani, Fina Tri Wahyuni	Based on Didactic Situation Design Assisted by Flipbook on the Material of Geometric Rows and Sequences	discusses E-LKS based on Didactic Situation Design assisted by Flipbook. The suggestions given by researchers are to make improvements to the E-LKS so that it can be developed to all teachers.
3	2022	Sarah Rizqi Ramadhina, Khavisa Pranata	Development of E-Modules Based on Flipbook Application in Elementary School	(Ramadhina & Pranata, 2022) This study discusses the use of Flipbook-based E-Modules. Where in this study the weaknesses of the researchers, where the teaching media based on the flipbook application can only be accessed online, which means that students need internet access to use the media. What researchers expect to overcome the limitations on the use of flipbook application-based media that can only be accessed using the internet, then the solution that can be done to overcome this is to provide flipbook application-based media in pdf format. Which can be accessed by students offline.
4	2021	Kalimatus Sa'diyah	Development of Digital Flipbook-Based E-Modules to Facilitate Learning Distance Learning in	(Sa'diyah, 2021) This study explains that digital flipbook-based E-modules can improve student learning outcomes. However, the digital flipbook-

			High School	based E-module research can only be used using a laptop and by using the flipbook maker application only. In research on the development of digital flipbook-based E-modules, they still use flipbooks that are free and less effective because their use is still not practical. So that there needs to be an increase to access the flipbook by using a paid flipbook that has a clear license.
5	2021	Fransiska Faberta Kencana Sari, Idam Ragil Widianto Atmojo	Needs Analysis of Flipbook-Based Digital Teaching Materials to Empower Learners' 21st Century Skills in Elementary School Science Learning	(Sari & Atmojo, 2021) Pada penelitian ini pembelajaran abad 21 dituntut untuk menguasai pembelajaran berbasis teknologi tetapi fakta yang ada dilapangan guru masih belum melaksanakan pembelajaran berbasis teknologi. Penelitian ini hanya berfokus kepada pembelajaran IPA saja, tidak menyeluruhkan semua mata pelajaran. Dan penelitian ini tidak mencantumkan pengembangan seperti apa yang dimaksud dalam media *flipbook*.
6	2024	Fadia Velinda, Endang M Kurnianti ,Uswatun Hasanah	Needs Analysis of Web-Based Interactive Digital Flipbook Media to Improve Critical Thinking Skills	(Sari & Atmojo, 2021) This study reveals that the obstacle experienced by teachers is the lack of learning media references when teaching in class as a result

			of Elementary School Students	students become uninterested when the learning process is taking place. In this study it is also recommended to make updates in accordance with the applicable curriculum, student characteristics, teaching materials, and media needs when learning in class.
7	2024	Tarisa Az Zahra, Rima Kusuma Dewi, Desi Ayu Lestari, Rana Gustian Nugraha	Development of Flipbook Learning Media "Character of the Nation's Children, Civilized Indonesia" to Improve the Character of Elementary School Students	(Az Zahra et al., 2024) This research only focuses on making adab character-based media for elementary school children, while moral/civil education is always sustainable, not only for elementary school children. And the product trial in this article has a poor score in the large group category so that this media is more effectively used by individuals than in groups,
8	2024	Bunari, Johan Setiawan, Muhammad Anas Ma'arif, Reski Purnamasari, Hadisaputra, Sudirman	The influence of flipbook learning media, learning interest, and learning motivation on learning outcomes	(Bunari et al., 2024) This research is motivated by learning in the covid-19 period, where the demands of learning at that time had to be done online. Due to online learning, students are required to understand learning that is carried out online using classrooms, whatsapp, etc. And students feel bored due to network constraints and even the

				presentation of material by the teacher only explains without any interaction. And students feel bored due to network constraints and even the presentation of material by the teacher only explains without any interaction. The weakness in this article is that the flipbook learning media is not explained by the use or even the updates given by researchers.
9	2023	Isnanik Juni Fitriyah, Salma Nur Salsabila Sahda	Development of E-Module Flipbook Based on Discovery Learning to Increase Learning Motivation	(Fitriyah & Sahda, 2023) This research focuses on the use of LKS or printed books that are often used by teachers. Researchers provide opinions on the use of flipbook-based e-modules to overcome student boredom in learning. The weakness of this study is that the use of applications provided by researchers is not practical. This is confirmed by the existence of various applications used in one use of learning media. This results in the time used to explain this application taking too long.
10	2024	Ahmad Muzakki Zein, Abd Muhith, Suparwoto	Digital Flipbook-Based Learning Media Design in Integrated Thematic Learning on the Theme	(Zein et al., 2024) In this study, a teacher explained that, although projectors and other supporting devices were available. Most

		Sapto Wahono	of Growth and Development of Living Things in Class III Inclusive Elementary School	teachers do not have time to make technology-based learning media such as flipbooks. In this study, it discusses the making of digital-based flipbook learning media.

Conclusion

Digital Flipbook is an application that can facilitate teachers in creating learning media by combining all elements such as image, text, audio, and video objects so as to create interesting learning media. Digital flipbooks are quite effective in the learning process.

From all the articles that have been presented by researchers. Researchers argue that flipbook learning media can improve learning outcomes, motivation, interest, and even student activeness in the learning process. The shortcomings that researchers take as a reference to make updates are in further research using different materials and at the next level. This is because, after reviewing the articles above, most of them are still at the elementary level and science and SBDB subjects.

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