



Analysis of the Need for Development of Website-Based Physical Education Learning Media for Elementary Schools

Dwi Yayang Fahrina¹, Syafaruddin^{2*}, Iyakrus³, Meirizal Usra⁴, Wahyu Indra Bayu⁵,
Herri Yusfi⁶

^{1,2,3,4,5,6}Faculty of Teacher Training and Education / Sports Education Master's Study Program /
Sriwijaya University / South Sumatera / Indonesian

^{1,2,3,4,5,6}Street Raya Palembang – Prabumulih No. KM. 32, Indralaya, Kec. Indralaya, Ogran Ilir,
South Sumatera, 30862

¹yayang.bkp@gmail.com, ²syafaruddin@fkip.unsri.ac.id, ³iyakrus@fkip.unsri.ac.id,

⁴meirizalusra@fkip.unsri.ac.id, ⁵wahyu.indra@fkip.unsri.ac.id, ⁶herryusfi@fkip.unsri.ac.id

Received: October 01, 2023; **Reviewed:** October 07, 2023; **Accepted:** October 10, 2023;

Published: October 26, 2023

ABSTRACT

This research aims to analyze the need for developing website-based Physical Education learning media for elementary schools. This type of research is research and development (R&D). This population is elementary school students at SD Negeri 18 Palembang who are in fifth grade. The sample used on a small scale was twenty-seven students and for a large scale, it was sixty students. The instrument in this research is data collection using questionnaires and the results of students' Google forms. The data analysis technique used is a description of the questionnaire data that has been filled in by the respondent. Based on the research results, it was found that almost (62.2%) of the respondents knew about web-based physical education learning media in elementary schools and only 37.8% did not know about it. As many as 98.9% chose to require WEB-based learning, and only 1.1% chose not. 58.9% of respondents experienced difficulties with the current learning media and only 41.1% of respondents said that WEB-based learning media for elementary school children was not only 1.1% and 40% chose it as important while 58% chose it as very important. 9% and those who did not agree that web-based physical education learning media was developed were only 2.2%, while those who agreed were 41.1% and 56.7% strongly agreed. Research on the development of website-based physical education learning media can be used well by students and is useful as learning material at the moment.

Keywords: Learning Media; Physical Education; Website.

INTRODUCTION

The development of the Internet in developed countries is very rapid compared to our countries which are called developing countries (Isroqmi, 2020). However, we don't just forget about it, by continuing to progress in increasingly sophisticated technological developments (Ahmad, 2018). The internet has been used for various sources in obtaining

e-learning-based learning (Kustiani & Despa, 2019). The Internet has various benefits in terms of communication channels between students and teachers or parents because with the Internet all activities become easier (Yhuhdi & Amalia, 2018). Apart from that, technology can have a changing impact on the world of education (Listiana, 2021).

Education is an effort to improve knowledge obtained from both formal and informal institutions to obtain quality people. For the expected quality to be achieved, it is necessary to determine appropriate educational goals (Aziizu, 2015). Education is an effort to influence students to adapt as much as possible to their environment, to change their competencies and to enable them to function well in everyday life (Hamalik, 2016). Education is a long-term strategic program whose implementation must be able to answer the needs and challenges of the nation (Mila, 2018). Implementation of educational goals at the national level cannot be separated from the role of educators as implementers of learning which is part of the curriculum goals (Fujiawati, 2016). The curriculum can initially be seen as an association of students from subjects which can then change according to this meaning which makes this part of an association with various kinds of activities and learning experiences that can be provided to students to achieve goals. education (Hermawan et al., 2020).

In the world of education, especially Physical Education, Sports and Health (PJOK) learning, through this development, its benefits have begun to be felt (Sahabuddin et al., 2020). With the progress of the times, scientists, teaching staff and practitioners are required to always carry out various kinds of innovations so that they can adapt to the present and current developments (Destriana et al., 2022). Learning is very difficult to understand without using media, so educators must carefully choose media that supports the teaching and learning process. Nurrita (2018) learning media is a learning resource, which contains important elements in the learning process, this can help teachers enrich students' insight, with various types of learning media, teachers should choose suitable media such as online media can be accessed from anywhere using gadgets, laptops, whatever computer or smartphone the student has (Oktavian & Aldya, 2020). In carrying out learning, part of the mental activity is to obtain a very positive change in attitude (Jamaluddin et al., 2020). Through these activities you can experience and change aspects of a person's personality (Husamah et al., 2018).

Traditional learning media to modern learning media is about where the learning process is to achieve goals. Although teachers and students still have many obstacles, one of which is learning physical education in elementary schools. Physical education, sports

and health taught in schools have a very important role, namely providing opportunities for students to be directly involved in various learning experiences through physical activities, sports and health. selected and carried out systematically. Learning media are devices or tools used by teachers in carrying out teaching and learning activities, and teachers are also required to use media effectively, innovatively and interestingly, so that students can be interested in the learning process (Tafonao, 2018)

Several forms of digital learning need to be implemented and developed in the world of education. One of them is web-based learning media for physical education lessons. Purba et al., (2021) Web-based learning is often referred to as online learning or e-learning. One of the advantages of using the web to access course materials is that web pages can contain hyperlinks to other parts of the web, making it possible to access large amounts of web-based information. Novitasari (2016) The web is a collection of web pages published on the internet network with a domain or URL (United Resource Locator) that can be accessed by internet users by entering the development address. Web-based learning is often referred to as online learning or e-learning (Bela & Pasaribu, 2021). One of the advantages of using the web to access course materials is that web pages can contain hyperlinks to other parts of the web, making it possible to access large amounts of web-based information. Web-based learning media can connect learning between educators and students in online learning spaces.

Based on research that has been carried out by Januarisman & Ghufro (2016) with the title Development of Web-Based Learning Media for Natural Science Subjects for Class VII Students the results showing the final result of the web-based science learning media product was 22.14 from an average score of 62.38 to 84.52. SMP Negeri 2 Depok achieved an increase in learning outcomes of 24.06 from an average score of 62.03 to 86.09. SMP Negeri 5 Depok achieved an increase in learning outcomes of 19.68 from an average score of 65.80 to 85.48.

Ardiansyah & Nana (2020) Learning media using smartphones and tablets has the power to transform the learning experience and enable students to learn without being limited by time and place with interesting web-based media. In this research, the web is a learning media that can be accessed anywhere. This website contains physical education learning materials for grade 5 elementary school children and contains several features that can be selected by users, such as a study material book feature that can be viewed with one click. So students can study anywhere, like at school or tutoring.

From the description above, it is clear that technology-based information media can make it easier to achieve learning goals and reduce costs, energy and time. Smartphones are one of the fruits of current technological developments. The high interest of students in smartphones shows that the presence of smartphones as a learning medium is one possibility that can be developed in the world of education. This shows the need to pay special attention to the attractiveness of the lifestyle of elementary school students to ensure that smartphones are always used for positive activities.

METHOD

At this stage, the researcher plans the actions that will be taken to develop a Web-based physical education learning media application model for elementary school students. The type of research used in this research is Research and Development (R&D). Research and development is a process or steps to develop a new product or improve an existing product and can be accounted for. (Hanafi, 2017) Research and Development (R&D) is a research method that aims to produce certain products and test the validity and effectiveness of these products in their application. One of the stages used in this type of research is the needs analysis phase. At the needs analysis stage, research data is collected using questionnaires or unstructured questionnaires that will be filled in by research subjects. 5 questions will be asked by researchers and in general the questions contain about the need and development of WEB-based physical education learning media in elementary schools.

Table 1.
Needs Analysis Question Items

NO	Questions/Statements
1.	Do you know about WEB-based learning media for learning PJOK in elementary schools?
2.	Is WEB-based learning media needed in the current technological era?
3.	Are you experiencing difficulties with the current learning media?
4.	In your opinion, how important is WEB-based physical education learning media for elementary school children?
5.	Do you agree that physical education learning in elementary schools has been developed and modernized from manual to WEB-based?

Data was obtained from student subjects, physical education teachers and lecturers in the city of Palembang. The questionnaire was created using a Google form link which was distributed on August 1 2023 and completed on August 20 2023. In the initial display of this questionnaire, the researcher provides information regarding the objectives of developing WEB-based learning media in elementary schools. Then the participant fills in the biodata as an archive for the researcher and also fills in the consent form to fill out the

questionnaire that has been provided, after that, the participant fills in the question sheet that has been asked according to the existing circumstances. The average time for respondents to fill out the Google form is 7 minutes. The statistical analysis used is a description of the questionnaire data that has been sent from respondents.

Table 2.
Description of Respondents

Respondent Cluster	Number	N (%)
Elementary students	67	74,4
Physical Education Lecturer	2	2,2
Physical Education Teacher	21	23,3
Total Respondents	90	100

This research is quantitative descriptive research and uses research methods as a data collection technique. The researcher used a questionnaire created using the Google Form platform to help students, teachers, trainers and lecturers fill out the questionnaire. Purposive accidental sampling was used to obtain research data from students, teachers and physical education lecturers in Palembang City.

RESULTS AND DISCUSSION

The answers obtained from respondents who had filled out the questionnaire via Google Form which were carried out on August 1 2023 and completed on August 20 2023 obtained data from the needs analysis. These results will then be a follow-up to conducting further research in the process of developing WEB-based physical education learning media in elementary schools.

Table 3.
Results of Needs Analysis

No. Question Items	Mark (%)				Amount (%)
	Yes	No	Not important	Important Very important	
1	56 (62,2%)	34 (37,8%)			90 (100%)
2	89 (98,9)	1 (1,1%)			
3	53 (58,9)	37 (41,1%)			
4			1 (1,1%)	36 (40%)	
5			2 (2,2%)	37 (41,1%)	
				51 (56,7%)	

The table above shows the results of research that has been conducted showing that almost (62.2%) of respondents know about web-based physical education learning media in elementary schools and only 37.8% do not know about it. As many as 98.9% chose to require WEB-based learning, and only 1.1% chose not. 58.9% of respondents experienced

difficulties with the current learning media and only 41.1% of respondents said that WEB-based learning media for elementary school children was not only 1.1% and 40% chose it as important while 58% chose it as very important. 9% and those who did not agree that web-based physical education learning media was developed were only 2.2%, while those who agreed were 41.1% and 56.7% strongly agreed.

Web-based physical education learning media in elementary schools is one of the components supporting student learning outcomes, especially for elementary school students, which makes learning more interesting. Many innovations have been made in science to improve human life. One improvement is the learning media that is carried out in various development studies. Al Munawarah (2019) The development of learning media can be seen as follows: a) initially learning media was audio-visual which was used by teachers to carry out learning, b) then learning media was seen as being developed systematically and following communication rules, c) media was seen as an integral part in learning system and there are changes to other components in the learning process. Maimunah (2016) the use of learning media as an integral part of the teaching and learning process in class, so that it can be useful. There are three functions of using electronic media or the web in learning activities, namely as an addition, complement, and substitute for the learning process (Yustanti & Novita, 2019).

Based on the results above, it turns out that 98.9% of respondents said they needed WEB-based physical education learning media. Everyone involved in this research agrees that website learning media has been developed and modernized from manuals to websites. Of course, this is a consideration because researchers continue to develop website-based research that attracts more student interest in learning. This research is limited to analyzing the need for developing WEB-based physical education learning media in elementary schools. The results of this research will be a reference for developing learning media instruments that have good validity and are easy to use.

CONCLUSIONS AND SUGGESTIONS

Development of web-based physical education learning media in elementary school which can be used as an interesting learning media and can be used from anywhere. The survey conducted in this research showed that physical education learning media in elementary schools experienced difficulties in implementation. All informants who took part in this research agreed that web-based physical education learning media can be

developed and modernized from manual to attractive. The results of this research will also be a reference for further development of physical education learning media that has validity, effectiveness and ease of use.

REFERENCES

- Ahmad, I. (2018). Proses Pembelajaran Digital dalam Era Revolusi Industri 4 . 0 Era Disruptif Teknologi. *Kementerian Riset, Teknologi, dan Pendidikan Tinggi*, 1–13.
- Al Munawarah, R. (2019). Sparkol Videoscribe sebagai media pembelajaran. *Jurnal Inspiratif Pendidikan*, 8(2), 430–437.
- Ardiansyah, A. A., & Nana, N. (2020). Peran mobile learning sebagai inovasi dalam meningkatkan hasil belajar siswa pada pembelajaran di sekolah. *Indonesian Journal Of Educational Research and Review*, 47–56.
- Aziizu, B. Y. A. (2015). Tujuan Besar Pendidikan Adalah Tindakan. *Prosiding Penelitian dan Pengabdian Kepada Masyarakat*, 2(2), 295–300. <https://doi.org/10.24198/jppm.v2i2.13540>
- Bela, S., & Pasaribu, F. (2021). Pengembangan Sistem Pembelajaran Daring Berbasis Web Study Kasus SDN Sidoasih Lampung Selatan. *TELEFORTECH: Journal of Telematics and Information Technology*, 1(2), 55–60.
- Destriana, Destriani, Victorian, A. R., & Muslimin. (2022). Analisis Kebutuhan Pengembangan Aplikasi Tes Passing Bola Voli Berbasis Android. *Journal of Sport Science and Fitness*, 8(2), 125–130. <https://doi.org/10.15294/jssf.v8i2.59167>
- Fujiawati, F. S. (2016). Pemahaman Konsep Kurikulum Dan Pembelajaran Dengan Peta Konsep Bagi Mahasiswa Pendidikan Seni. *JPKS (Jurnal Pendidikan dan Kajian Seni)*, 1(1), 16–28. <https://doi.org/10.30870/jpks.v1i1.849>
- Hamalik, O. (2016). *Proses Belajar Mengajar* (18 ed.). PT Bumi Aksara.
- Hanafi. (2017). Konsep Penelitian R&D Dalam Bidang Pendidikan. *Saintifika Islamica: Jurnal Kajian Keislaman*, 4(2), 129–150.
- Hermawan, Y. C., Juliani, W. I., & Widodo, H. (2020). Konsep Kurikulum dan Kurikulum Pendidikan Islam. *Jurnal MUDARRISUNA*, 10(1), 34–44. <https://doi.org/10.22373/jm.v10i1.4720>
- Husamah, Pantiwati, Y., Restian, A., & Sumarsono, P. (2018). *Belajar dan Pembelajaran* (2 ed.). Universitas Muhammadiyah Malang.
- Isroqmi, A. (2020). Pentingnya Penguasaan Beberapa Aplikasi Komputer Bagi Dosen di Pembelajaran Daring Berbasis Moodle. *Prosiding, Seminar Nasional*, 62–71. <https://jurnal.univpgri-palembang.ac.id/index.php/Prosidingpps/article/view/3788>
- Jamaluddin, D., Ratnasih, T., Gunawan, H., & Paujiah, E. (2020). Pembelajaran Daring Masa Pandemi Covid-19 Pada Calon Guru: Hambatan, Solusi dan Proyeksi. *Digital Library, UIN Sunan Gunung Djati*, 1–10. <http://digilib.uinsgd.ac.id/30518/>
- Januarisman, E., & Ghufro, A. (2016). Pengembangan media pembelajaran berbasis web mata pelajaran ilmu pengetahuan alam untuk siswa kelas VII. *Jurnal Inovasi Teknologi*

- Pendidikan*, 3(2), 166–182. <https://doi.org/10.21831/jitp.v3i2.8019>
- Kustiani, I., & Despa, D. (2019). Persepsi Peserta Program PS PPI Unila Mengenai Aplikasi Pembelajaran Daring. *Buletin Profesi Insinyur*, 2(3), 122–124. https://www.researchgate.net/publication/339428817_Persepsi_Peserta_Program_PS_PPI_Unila_Mengenai_Aplikasi_Pembelajaran_Daring
- Listiana, Y. R. (2021). Dampak Globalisasi Terhadap Karakter Peserta Didik dan Kualitas Pendidikan di Indonesia. *Jurnal Pendidikan Tambusai*, 5(1), 1544–1550.
- Maimunah, M. (2016). Metode Penggunaan Media Pembelajaran. *Al-Afkar: Jurnal keislaman dan peradaban*, 5(1).
- Mila. (2018). Pengembangan Media Multi Representasi Berbasis Instagram Sebagai Alternatif Pembelajaran Daring. In *SKRIPSI, Fakultas Tarbiyah dan Keguruan, Universitas Islam Negeri Radenintan Lampung*. <http://repository.radenintan.ac.id/5392/1/Untitled.pdf>
- Novitasari, D. (2016). Pengaruh Penggunaan Multimedia Interaktif Terhadap Kemampuan Pemahaman Konsep Matematis Siswa. *FIBONACCI: Jurnal Pendidikan Matematika & Matematika*, 2(2), 8–18. <https://doi.org/10.24853/fbc.2.2.8-18>
- Nurrita, T. (2018). Pengembangan Media Pembelajaran untuk Meningkatkan Hasil Belajar Siswa. *Misykat*, 3(1), 171–187. <https://doi.org/10.33511/misykat.v3i1.52>
- Oktavian, R., & Aldya, R. F. (2020). Efektifitas Pembelajaran Daring Terintegrasi di Era Pendidikan 4.0. *Didaktis: Jurnal Pendidikan dan Ilmu Pengetahuan*, 20(2), 129–135. <http://103.114.35.30/index.php/didaktis/article/view/4763>
- Purba, B. E. P., Riris, I. D., & Muchtar, Z. (2021). Development of Website-Based Learning Media Integrated Inquiry Learning Strategies in Learning Thermochemical Matter Chemistry. *BirLE - Journal Budapest International Research and Critics in Linguistics and Education*, 4(1), 454–461. <https://doi.org/10.33258/birle.v4i1.1658>
- Sahabuddin, Hakim, H., & Bismar, A. R. (2020). Analisis Kinerja Guru Pendidikan Jasmani Olahraga dan Kesehatan Terhadap Motor Ability dan Hasil Belajar Pada Siswa SD Negeri di Kabupaten Pinrang. *JCESPORT, Ubharajaya*, 1(1), 35–48. <https://doi.org/https://doi.org/10.31599/jces.v1i1.84>
- Tafonao, T. (2018). Peranan media pembelajaran dalam meningkatkan minat belajar mahasiswa. *Jurnal komunikasi pendidikan*, 2(2), 103–114.
- Yhuhdi, A., & Amalia, N. (2018). Desain Media Pembelajaran Berbasis Daring Memanfaatkan Portal Schoology pada Pembelajaran Apresiasi Sastra. *Journal of Chemical Information and Modeling*, 7(1), 14–22. <https://doi.org/https://doi.org/10.24114/bss.v7i1.9320>
- Yustanti, I., & Novita, D. (2019). Pemanfaatan e-learning bagi para pendidik di era digital 4.0 utilization of e-learning for educators in digital era 4.0. *Prosiding Seminar Nasional Program Pascasarjana Universitas Pgrri Palembang*.