

Optimization of The Development of Digital Teaching Materials Based on The Local Wisdom of Silek Pengudon Through the *Anyflip Application* in Primary Schools

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ABSTRACT

This research is a type of development research and the model used is the 4D development model (Define, Design, Develop and Disseminate). This research was conducted at the 203/VI Rantau Panjang XII State Elementary School. This research data was obtained from media validation, language validation, material validation and practitioner validation. Apart from that, research data was also obtained from student response questionnaires as well as interviews and observations of Traditional Leaders, teachers and students. The results of this research show that the validation test from several expert assessments obtained a percentage of (1) media validation of 82.14% with very good criteria; (2) Language validation is 78.88% with good criteria; (3) material validation of 79.84% with good criteria; (4) practitioner validation was 76.81% with good criteria. Then it will be tested on students through a small group trial to see the readability of teaching materials based on the local wisdom of Silekpudon using the Anyflip application and the large group test received a student response rating of 89% with good criteria. Based on the research results, it can be concluded that the development of materials for the development of teaching materials based on local wisdom in Silek Penyudon using the Anyflip application in elementary schools can be used in learning at school.

Keywords

Optimization, Teaching Materials, Silek Penyudon, Anyflip, Elementary School

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INTRODUCTION

Local wisdom is a cultural heritage that has noble values and its own wisdom. In the midst of globalization, efforts are needed to preserve and develop local wisdom so that it is not eroded by the flow of modernization. One form of local wisdom that is rich in cultural values is Silek Penyudon, a traditional martial art from Jambi Province. This is in line with Alirmansyah (2020: 26) who expressed the opinion that the people of Jambi play an important role in preserving and maintaining local cultural heritage in the world of education

in order to add insight into local culture, especially in the Jambi province. Continuing the sustainability of this local wisdom, integration with the world of education, especially at the elementary school level, is a strategic step.

Educational challenges are increasingly complex. Children have greater access to technology and information, so new approaches to teaching are important. Zuridar in Supriatna, I., & Lusa, H. (2021: 114) said that as a facilitator in improving the quality of education, he is expected to be able to make innovations in learning. Integrating local wisdom of Silek Penyudon into technology-based teaching materials can be the right solution to face these challenges. Based on Minister of Education and Culture Regulation Number 4 of 2022 concerning National Education Standards, learning in elementary schools applies integrated thematic learning across cultural diversity by instilling character values in science, technology and culture.

Silek Penyudon has its own unique heritage in the traditional martial arts heritage of the Rantau Panjang area. In line with Yulistranti, AE (2023: 8442) The Silek Penyudon activity was carried out on Eid day, to be precise on the 12th or 13th day as a series of closures for the Eid al-Fitr holiday. Silek Penyudon is not just a form of physical movement, but also includes moral, ethical and togetherness values. Introduction to Silek Penyudon at an early age, especially at school, can be the foundation for forming children's characters who are strong and have cultural resilience.

AnyFlip or HTML5 as an e-book creation and distribution platform, has emerged as an effective tool for optimizing the development of teaching materials. According to Kristina Dwi Martani (2020: 68) The www.anyflip.com application is *interactive HTML5 Flipping Book is a platform* for publishing magazines, catalogues, brochures and so on for other users to read, upload and download. Its interactive capabilities, *AnyFlip* allows users to present information in an engaging and easy-to-understand way, keeping with children's technological developments.

AnyFlip application can be adapted to the learning needs of elementary schools. *AnyFlip's* intuitive design and multimedia capabilities enable the presentation of engaging and educational learning materials. This opens up opportunities to integrate local wisdom of Silek Penyudon into the curriculum, creating more contextual and relevant learning for students.

The synergy between local wisdom and technology is an important basis for optimizing the development of digital teaching materials. In line with Asrial et al (2020: 31) digital teaching materials or better known as *e-books* are books that can be displayed in electronic form and accessed via smartphones and computers or laptops. Combining elements of Silek Penyudon into the *AnyFlip platform*, education can be a means that not only teaches academic skills, but also shapes character, appreciates local wisdom, and builds a sense of nationality. For this reason, developing teaching materials using the *Anyflip application*

media can be done by repackaging information sourced from elementary school textbooks, modules, and information obtained via the internet, scientific magazines, related journals and the surrounding environment related to the material to be developed (Sholeh, M. 2019: 139)

The use of teaching materials based on local wisdom in Silek Penyudon through the AnyFlip application in elementary schools is expected to have a positive impact on children's development. They not only gain knowledge about traditional martial arts, but also develop critical thinking skills, self-confidence, and the values of honesty and discipline through interactive and fun learning.

It is hoped that optimizing the development of teaching materials based on local wisdom in Silek Penyudon through the AnyFlip application in elementary schools can open the door to a deeper understanding of the richness of local culture. In line with Dadan Suryani & Aini Hijrianti (2022: 1079) local wisdom-based learning for early childhood is one way of preserving the local wisdom of the people in the area from an early age. In addition, it is hoped that this step can become an inspiring model for efforts to preserve and develop other local wisdom in educational environments, so that future generations can remain connected to their cultural roots while still adapting to technological advances.

RESEARCH METHODS

This research uses the R&D (*Research and Development*) method which is used to produce new products and then test the effectiveness of these products. This research uses Thiagrajan's (1974) 4D design model, namely (*Define, Design, Develop and Disseminate*). Several series of trials were carried out on this product, which were then analyzed by researchers and the teaching materials were revised. The trial subjects consisted of 1) media experts as experts who have competence in the field of media, one of whom is a lecturer in elementary school teacher education, 2) linguist as an expert who has competence in the field of language, one of whom is a lecturer in elementary school teacher education, 3) material expert as an expert who who have competence in the field of material, one of whom is an elementary school teacher education lecturer, and finally 4) a practitioner expert as an expert who knows the practicality of the teaching materials being tested, one of the experts is a teacher from that school. This research was conducted in class V with 18 students at SDN 203/VI Rantau Panjang XII in 2023. The data analysis technique in this research was carried out quantitatively and then explained through qualitative data.

Table 1. Converting Qualitative Values to Quantitative Values

Mark	Number
Very good	4
Good	3
Not enough	2
Very less	1

Source: (modification of Utami et al, 2021:347)

Then calculate the total value using the formula:

$$P = \frac{f}{N} \times 100\%$$

(Source: Mauliza, 2022: 34)

Information:

P: Percentage Number

f: Total Frequency (number of respondents' answers)

N: Number of Respondents

After getting the results, the quality of the teaching materials will be seen using a Likert scale in the form of points and replaced as qualitative data:

Table. 2 Reference for assessing the feasibility of the *Anyflip application*, and student responses

Likert scale	Score Range(%)	Mark	Category
4.	81-100	A	Very good
3.	61-80	B	Good
2.	41-60	C	Enough
1.	21-40	D	Not good

(modification of Utami et al, 2021:347)

RESEARCH RESULTS AND DISCUSSION

The process of developing local wisdom-based teaching materials using the *AnyFlip application* in elementary schools is carried out using . The research method using the 4D model aims to produce products in the form of electronic modules or other teaching materials that are real or contextual . According to Kharismawati, S. (2023: 80) Contextual is a teaching and learning concept that helps teachers connect the content of class material with real life. The stages in this 4D model are very easy to understand, arranged systematically and directed, and easy to apply in developing learning modules. According to Asrial et al (2020: 31) digital teaching materials or better known as e-books are books that can be displayed in electronic form and accessed via *smartphones* and computers or laptops. Therefore, researchers developed teaching materials in the form of electronic modules based on the local wisdom of Silek Penyon using the *AnyFlip application* in Rantau Panjang.

The development of this electronic module obtains two data, namely qualitative data and quantitative data. Qualitative data was obtained from interviews with resource persons, namely teachers, students, traditional leaders, and heads/staff of education services as well as

suggestions from validators. Quantitative data was obtained from validation and student response questionnaires . This electronic module has advantages when used in learning, such as being easy to carry, can be accessed via cellphone or laptop or computer. Electronic modules include digital teaching materials as an electronic learning resource that is unlimited and can be accessed by students easily (Alperi, 2020:99-110). This is done to make the learning process easier, easy to use, store and study. The electronic module based on Loka Silek Penyon wisdom that was developed to be taught to students is in accordance with suggestions and comments from language expert validation, media expert validation, material expert validation and practitioner expert validation.

Linguist validation is carried out by the AL lecturer twice, validating the module to be developed. The first validation was carried out on March 7 2023 and the second validation was carried out on March 27 2023 with results of 78.88% with good criteria. Furthermore, the media validation carried out by the MS lecturer was carried out twice, the first validation was carried out on March 7 2023 and the second validation was carried out on April 12 2023. The results obtained were 82.14% with very good criteria. Next, validation of the material was carried out by the AGE lecturer . three validations, the first validation was carried out on March 14 2023, the second validation was carried out on April 12 2023 and April 14 2023 with results of 79.84% with good criteria. Then the final validation , namely practitioner validation, was carried out by the homeroom teacher of the elementary school where Mrs. NU was researched twice. The first validation was carried out on March 9 2023 and the second validation was carried out on March 21 2023. 76.81% met good criteria. Based on the local wisdom-based electronic module product, Silek Penyon using the *Any Flip application* is suitable for testing. This trial was carried out on students consisting of a small group test and a large group test.

Small group trial consisting of 6 students to check the readability of the product which still has limitations such as the link that has been shared on several cellphones which is not blue. So students have to re-copy the link that was shared, then copy the link on the *Google page* . Thus, researchers must review to minimize the limitations of students in testing the readability of electronic modules based on the local wisdom of Silekpudon using the *Any Flip application* . After conducting small group trials, researchers conducted large group trials.

This large group trial was supposed to consist of 18 students, during the research only 14 students were present. This large group trial was to measure students' responses to the electronic module based on the local wisdom of Silek *Turtle* using the *Any Flip application* . The students' response when implementing this electronic module obtained results with 89% good criteria (14 out of 18 students). It can be seen that the results of implementing this electronic-based module can raise students' enthusiasm for learning. The advantage of this electronic module is that it is closer to students' daily lives, especially local wisdom which is integrated into learning in elementary schools.

Based on the results of development and trials, the local wisdom-based electronic module Silek Penyudon using the AnyFlip application is suitable for implementation in elementary schools. This module not only facilitates easy and enjoyable access to material but also enriches learning with local wisdom. It is hoped that this kind of learning optimization can become an inspiring model for the development of other local teaching materials in the educational environment, maintaining cultural heritage while utilizing the latest technology.

CONCLUSION

In order to improve the quality of learning in elementary schools, research and development was carried out under the title "Development of Teaching Materials Based on Local Wisdom of Silek Penyudon Using the Anyflip Application in Class V Theme 8 Subtheme 1 Learning 3". This research aims to develop an electronic module based on the wisdom of Silek Penyudon as electronic teaching material in class V with the content of Indonesian Language, Social Sciences and PPKn lessons. The module development process involved several stages of validation from experts, including language, media and materials experts, as well as practitioners at the elementary school that was the research location. Validation by experts reached a significant percentage, with media validation at 82.14%, language at 78.88%, material at 79.84%, and practitioners at 76.81%, all with good criteria. The teaching materials developed have also been tested in small groups and large groups to observe students' responses to teaching materials based on the local wisdom of Silekpuodonon. The research results showed a good level of readability and response, with a student response percentage of 89% in the large group test, considered as good criteria. It was concluded that this electronic teaching material, developed using the AnyFlip application, could be an effective alternative teaching material and in accordance with the local wisdom of Silek Penyudon to improve learning at the elementary school level.

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