



The Development of Reading Materials Based on Assamaturu Local Wisdom Using Heyzine Flipbooks Application to Improve the Reading Comprehension Skills of Fouth-Grade Students

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Abstract

This research focuses on developing reading materials based on local Assamaturu wisdom from Gowa Regency, South Sulawesi Province using the Heyzine Flipbooks application. Specifically, the research objective is to develop a prototype of reading material based on local Assamaturu wisdom using the Heyzine Flipbooks application and test the validity, practicality and effectiveness of the reading material developed. The development model used in this research is the 4-D development model (four D models). The stages of the 4-D model include defining, designing, developing and disseminating. Validity analysis was carried out by two expert experts. The validation results show that the research instrument is declared valid with a recapitulation value of 3.7. Furthermore, the results of the practicality analysis which came from questionnaire responses from teachers and students showed that reading materials based on local Assamaturu wisdom assisted by the Heyzine Flipbooks application were declared very practical with a presentation score of 92%. Effectiveness analysis based on reading comprehension test results shows that the average student score is 87 with a completeness presentation of 90%. This value is in the very good category. Thus, it can be concluded that the reading materials developed based on local Assamaturu wisdom with the help of the Heyzine Flipbooks application can be used to improve the reading comprehension skills of class IV students in elementary schools.

Keywords: Reading Materials, Assamaturu, Heyzine Flipbooks, Reading Comprehension.

1. INTRODUCTION

Reading is a core skill that benefits students at all levels of education. According to Risnawa et al (Lukman et al, 2023) reading also has many benefits, reading skills apart from being useful for increasing knowledge can also increase the reader's interest, the amount of vocabulary mastered will influence fluency in writing. Reading skills are one of the important skills because students' learning success is determined by their mastery of reading skills (Alamsah et al, 2023),

Reading comprehension skills are trained since elementary school, especially at high grade level in various reading comprehension activities. Reading comprehension is the ability to understand, evaluate, and reflect on the meaning of the text read. This involves several important aspects such as decoding, which is understanding written words by recognizing letters and words and associating them with sounds and meanings. Apart from that, vocabulary plays an important role where a person

must know and understand the meaning of the words used in the text of the reading material .

Despite the importance of reading comprehension, a number of studies show that elementary school students in Indonesia do not yet have adequate reading comprehension skills (Sulfasyah, Ernawati, & Fatmawati, 2022; Nurvitriawati & Sulfasyah, 2018; Wahid S, Sulfasyah, Rubianto, 2016;). This is in line with the PISA survey released by the OECD in 2019, where Indonesia was ranked worryingly, namely 62nd out of 70 countries with an average score of 379, a decrease compared to the 2015 PISA achievements (Firdiawan, Cahyani, Nisa & Khosiyono 2023). The development of local wisdom-based reading materials must be based on an analysis of student needs, meaning that the reading materials developed can be adapted to the characteristics of the target students. These characteristics include the social, cultural, geographic environment and stages of student development as well as the development of reading materials which must be able to answer or solve problems or difficulties in reading students' understanding. Furthermore, the results of your analysis found two problems. The first is that the school does not yet have reading materials that cover these aspects. local about one of the cultures of the people of Gowa district, namely *assamaturu* . Second, the level of students' reading comprehension is still low, based on the initial analysis carried out by researchers that out of 40 students in class IV, there are 16 students who are still in the category of sufficient level of reading skills with a score of 51, where this result means that these students are still classified as lacking.

The reading material produced is in the form of reading material based on local *Assamaturu wisdom with the help of the Heyzine Flipbooks application* . So the reading material developed by researchers can be packaged into 2 forms, namely in printed form and in file form. So, this reading material can be used directly (*offline*) and can be applied *online*. The reading material developed is printed reading material (a book) whose aim is so that students can learn independently and also with guidance from the teacher. Then the reading material developed by researchers can be in the

form of a PDF file so that it can be run using the *Heyzine Flipbooks application* so that the delivery of this teaching material can be conveyed to students by sharing links or *scanning barcodes* of reading material to students with the help of other learning applications such as the *Whatsapp* and *Google Classroom applications*. .

Based on several relevant research results, the development of reading materials based on Ende-Lio local wisdom with a validation test obtained a score in the valid category, then for the effectiveness test a score was obtained in the very practical category (Ningsih, N., & Kara, YMK, 2022) . Furthermore, the development of initial reading materials with the word institution for grade I elementary school students was stated to be very valid, very practical and very effective (Wildasari, A. 2022) . Other research results show that the development of reading materials with research results, namely validation results, obtained results in the very valid category. Furthermore, the teacher and student responses were obtained with very practical results and the results obtained from the trial were in the effective category (Mayasari, R., Agustina, L., & Maulana, R., 2023) . Based on the results of this study, researchers are interested in developing reading materials based on the local wisdom of *Assamaturu with the help of the Heyzine Flipbooks application* .

2. METHOD

This research is development research or *Research and Development* , which is a method used to develop and validate a Borg & Gall educational product (Risal et al, 2022:2). Furthermore, according to Sugiono (2019:297), research and development methods or in English *Research and Development* are research methods used to produce certain products and test product effectiveness. The development model used in this research is the 4-D development model (*four D models*) . According to Sugiyono (2008:404) the stages of the 4-D model include: defining , designing , developing , and disseminating . The research population is 4th grade students at Bontokamase State Elementary School, Somba District Opu Gowa Regency as many as 123 students. Through a *purposive sampling technique* , a research sample of 40 students was determined from Bontokamase State Elementary School, consisting of 10 small-scale trial samples and 30 large-scale trials. Data collection techniques were carried out through validation sheets and questionnaires and tests. Next, the collected data

will be analyzed through validity, practicality and

3. FINDINGS AND DISCUSSION

This research aims to determine the stages of developing reading materials based on local *assamaturu wisdom* to improve the reading

3.1. Definition Stage

3.1.1 Preliminary Analysis

At this stage, the research was carried out on fourth grade students at SD Negeri Bontokamase, Somba Opu District, Gowa Regency. In the analysis process, two problems were found. The first was that the school did not yet have reading materials that covered local aspects about one of the cultures of the people of Gowa Regency, namely Assamaturu. Second, the level of students' reading comprehension is still low, based on the initial analysis carried out by researchers that out of 40 students in class IV, there are 24 students who are still in the sufficient category. The level of reading skills is at a percentage of 51.00%, where this result means that these students are still classified as poor. .

3.1.2 Student Analysis

At this stage, the subjects of the research were students in class IV of Bontokamase State Elementary School, Somba Opu District, Gowa Regency as a trial school for reading materials developed by researchers. In analyzing students, researchers examined the type of reading material they were interested in and the level of students' reading comprehension

3.1.3 Objective Specifications

The formulation of objectives is adjusted to the Phase B learning objectives (TP) and reading comprehension indicators. Analysis of learning outcomes can be seen in the following table.

3.2. Design Stage

3.2.1. Media Selection

In the learning process, media is really needed to help teachers and students in the learning process. The media used in this research are Canva as a medium for designing reading materials and Heyzine flipbooks as a container for reading materials in learning. Heyzine flipbooks is an application that allows users to easily create digital flipbooks. With Heyzine Flipbooks, users can convert PDF files into flipbook form via Canva.

3.2.2. Preliminary Design

effectiveness analysis

comprehension of elementary school students in Gowa Regency. The following are the development stages with the modified 4D model:

The prototype reading material that will be designed using Canva is in the form of reading material based on local wisdom *assamaturu*, namely reading material in the form of an e-book that can be used by teachers when teaching face to face or can be said offline, and this teaching material can be used by teachers online (on the network) based on the Heyzine Flipbooks application which displays images, text and audio.

3.2.3. Test Preparation

At this stage, the preparation of test questions is based on the content of the Assamaturu reading material and indicators of reading comprehension skills according to Barrett's taxonomy. The test questions consist of 25 multiple choice questions related to the content of the Assamaturu reading material which will later be given to students after learning using reading materials based on the local wisdom of Assamaturu with the help of the Heyzine Flipbooks application.

3.3. Development Stage

3.3.1. Validation

Validation was carried out to determine the suitability of the research instrument. The validated research instrument was reading material based on the local wisdom of Assamaturu assisted by the Heyzine Flipbooks application. Apart from that, the researcher also validated the teacher and student response questionnaires, teaching modules, and reading comprehension test questions. After the Assamaturu local wisdom-based reading material, assisted by the Heyzine Flipbooks application, was validated by 2 experts or validators who are material and media experts. There are several suggestions for improvement from material and media expert validators, namely, first, brighten the image resolution for the dialogue text section. Second, the letters of the reading material are enlarged. Third, add evaluation questions to the reading material. Furthermore, the validation results can be seen in the table below.

Table 4.2 Reading Material Validation Results

No	Aspect	V ₁	V ₂	Average	Information
1	Media Quality	3.8	3.9	3.8	Valid
2	Material Quality	3.8	3.9	3.9	Valid
Overall average				3.8	Valid

Based on the table, it shows that the overall average results of the validation of reading materials based on local wisdom in Assamaturu are in the valid category with an overall score of 3.8. For each aspect, including the media quality aspect of the reading materials presented, an average of 3.8 was obtained, with a valid category, then looking at the quality aspect of the teaching materials, an average of 3.9 was obtained with a valid category. Thus, it can be concluded that the reading material based on the local wisdom of Assamaturu is declared valid

3.3.2. Revision I

This stage is carried out after the validation stage by the validator. The validation results are then used to correct weaknesses or deficiencies in the research instrument. Revision I was carried out by researchers to produce an instrument suitable for use in small-scale trials.

3.3.3. Small Scale Trials

At this stage, a small-scale pilot test was carried out with 10 fourth grade students at SD Negeri Bontokamase, Somba Opu District, Gowa Regency, consisting of 5 boys and 5 girls to see the effectiveness of the local wisdom-based reading materials being developed.

3.3.4. Revision II

Revision II was carried out after small scale trials. If the results of revision I in a limited trial reveal deficiencies and weaknesses in the reading material, these deficiencies will then be corrected in revision II. The results of revision II are a better product and are ready to be used for testing on a wider scale.

3.3.5. Wide Scale Trial

At this stage, the reading material based on the local wisdom of Assamaturu will be tested extensively involving 30 fourth grade students at Bontokamase Elementary School, Gowa Regency, consisting of 13 boys and 17 girls, with the aim of seeing the effectiveness of the reading material being developed.

After carrying out small-scale trials, revisions I and II, then wide-scale trials, then data analysis was carried out on the results of teacher and student response questionnaires, then analysis of the results of students' reading comprehension tests, the aim of which was to determine the practicality and effectiveness of reading materials based on the local wisdom of Assamaturu. with the help of the Heyzine Flipbooks application. The results of the analysis can be seen in the table below.

Table 1. Teacher Response Results

No	Respondent	Average Student Response	Presentation (%)	Information
1	40 Class IV students at Bontokamase State Elementary School, Somba Opu District, Gowa Regency	1	87%	Very Practical

Based on the table, it shows that the overall average teacher response is 1 with 87% of presentations in the very practical category. Thus, it can be concluded that reading materials based on the local wisdom of Assamaturu are stated to be

very practical

Next, the analysis of student response data is to determine the practicality of the *Assamaturu* local wisdom-based reading material assisted by the developed *Heyzine Flipbooks* application.

Student responses were analyzed based on the research location, namely in class IV of Bontokamase State Elementary School, Somba Opu District, Gowa Regency. The results of student responses can be seen in the following table.

Table 2. Student Response Results

No	Respondent	Average Student Response	Presentation (%)	Information
1	40 Class IV students at Bontokamase State Elementary School, Somba Opu District, Gowa Regency	1	98%	Very Practical

Based on the table, it shows that the overall average of student responses is 1 with 98% presentations in the very practical category.

Next, test the effectiveness of reading materials based on local wisdom in *Assamaturu with the help of the Heyzine Flipbooks* application based on the results of students' reading comprehension tests. The aim of analyzing reading

comprehension skills is to determine the understanding that students have regarding the material in the *Assamaturu reading materials*.

Thus, it can be concluded that reading materials based on the local wisdom of Assamaturu are stated to be very practical. The results of the material effectiveness test

Readings can be seen in the table below.

Table 3. Reading Comprehension Test Results

Test Results	Small Scale Test	Wide Scale Test	Information
Highest Score	100	100	100
Lowest Score	84	64	74
Complete	10	29	20
Not Completed	-	1	1
Average Score	93	87	90

Based on the table, the highest average score on the small scale test is 100, then the student's lowest score is 84. Furthermore, the highest average score on the wide scale test is 100, then the student's lowest score is 64. Overall the average student score namely 87 with a completeness presentation of 90, thus it can be concluded that the reading material is based on local *Assamaturu* wisdom with the help of the Heyzine Flipbooks application very effective in improving the reading comprehension skills of fourth grade students in elementary schools

The results of the research prove that the development of reading materials based on local

wisdom in Assamaturu assisted by the Heyzine Flipbooks application is valid, practical and effective.

3.4. Deployment Stage

In this stage, distribution is carried out by distributing access to reading materials based on local *Assamaturu wisdom with the help of the Heyzine Flipbooks* application via links and barcodes. Apart from that, the results of the development of these reading materials will be published through articles.

4. CONCLUSION

Based on the research results, it can be concluded that the reading material based on local

Assamaturu wisdom is declared valid, practical and effective in improving the reading comprehension skills of class IV students at Bontokamase State Elementary School , so that this reading material can be an alternative in learning related to culture.

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