

Developing a Local Wisdom-Based E-Book to Instill Moral Values in Kindergarten Children

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Article info	Abstract
Article History Recieved: 01/02/2025 Revised: 02/04/2025 Accepted: 05/04/2025 ✉ Corresponding author	<i>The lack of appropriate learning media for instilling moral values in early childhood remains a challenge in educational institutions, including at TK IT Insan Madani Banda Aceh. This study aims to develop an e-book containing Dodaidi—a traditional lullaby that carries moral messages—as a learning medium for children aged 5–6 years, and to assess its feasibility. The research employed a Research and Development (R&D) method using the ADDIE model (Analysis, Design, Development, Implementation, Evaluation) and a descriptive quantitative approach. The subjects of this study were 19 children. Data were collected through expert validation (media and content) and observations of children's engagement during the e-book trial. The validation results indicated that the e-book was highly feasible, with scores of 90% from the content expert and 80% from the media expert. The trial with children showed an engagement level ranging from 92% to 100%. These findings suggest that the developed e-book is feasible to be used as a learning medium to instill moral values in early childhood education.</i> Keywords: Local Wisdom, Book Elektronik, Dodaidi, Children
	Abstrak Minimnya media pembelajaran yang sesuai untuk menanamkan nilai-nilai moral pada anak usia dini menjadi tantangan di lembaga pendidikan, termasuk di TK IT Insan Madani Banda Aceh. Penelitian ini bertujuan untuk mengembangkan sebuah e-book berjudul “Dodaidi: Syair Cinta dari Ibu”, yang memuat syair tradisional Do Da Idi sebagai media pembelajaran bagi anak usia 5–6 tahun, serta menilai kelayakannya. Penelitian ini menggunakan metode <i>Research and Development (R&D)</i> dengan model ADDIE (<i>Analysis, Design, Development, Implementation, Evaluation</i>) dan pendekatan deskriptif kuantitatif. Subjek penelitian terdiri dari 19 anak. Data dikumpulkan melalui validasi ahli media dan ahli materi, serta observasi terhadap keterlibatan anak dalam uji coba penggunaan e-book. Hasil validasi menunjukkan bahwa e-book dinyatakan sangat layak digunakan, dengan skor 90% dari ahli materi dan 80% dari ahli media. Uji coba kepada anak menunjukkan tingkat keterlibatan antara 92% hingga 100%. Temuan ini menunjukkan bahwa e-book “Dodaidi: Syair Cinta dari Ibu” layak digunakan sebagai media pembelajaran untuk menanamkan nilai moral pada anak usia dini. Kata Kunci: Kearifan Lokal, E-Book, Do Da Idi, Anak

INTRODUCTION

Education is a conscious and planned process aimed at enhancing students' abilities by creating learning environments that actively engage them in developing their potential while effectively and efficiently utilizing available learning resources (Innes et al., 2023; Saleha et al., 2022; Yuningsih et al., 2024). Pratama & Sugiarto (Pratama & Sugiarto, 2023) argues that education is one of the most important investments parents make for their children's future. From birth, children hold great potential and hope for success, and education serves as the bridge connecting them to their future. According to Oktavianti & Fitroh (Oktavianingsih & Fitroh, 2021), early childhood education is fundamentally designed to support the holistic growth and development of children, emphasizing the nurturing of each aspect of their personality. Every individual possesses unique potential, including kindergarten-aged children, who are at the optimal stage to explore and develop their emerging abilities (Azzahra et al., 2021; Puspitasari & Leny, 2022; T. Wulandari et al., 2024). The National Association for the Education of Young Children (NAEYC) defines early childhood as the age range from birth to eight years, a critical period of physical, cognitive, social, and emotional development. Therefore, teaching strategies during this phase must align with the distinctive characteristics of children's developmental stages (Plowman et al., 2012).

In Indonesia, early childhood education (PAUD) is a shared responsibility among the government, the community, and parents. Riadi et al., (Riadi et al., 2023) classify PAUD into three categories: formal education (kindergarten and RA), non-formal education (playgroups, daycare centers), and informal education (family guidance). Among these, kindergarten serves as a crucial foundation for instilling moral values, as at this stage children begin to understand the concepts of good and bad behavior (Kurniati et al., 2020). Instilling moral values in early childhood requires a simple, engaging approach that is closely connected to the child's emotional experiences, one of which can be achieved through the use of appropriate learning media (Ubaidillah et al., 2019).

Along with the development of digital technology, learning media have also undergone a transformation. One form of media that suits the characteristics of early childhood and the demands of the times is the e-book or electronic book. An e-book is a digital textbook consisting of images, text, and animations, which can be read on a laptop or other electronic devices (Souisa et al., 2023). When properly developed, e-books can serve as communicative and engaging learning tools, especially when connected to children's real-life experiences and culture. One important aspect that needs to be instilled from an early age is moral values. Morality refers to the perception of right and wrong—what can and cannot be done. These moral norms function as social conventions adopted within a community and as guidelines for determining what is considered good or bad (Mudianti & Rizqiyani, 2025).

In this context, local wisdom can serve as a powerful source of content in developing learning media. Local wisdom refers to the cultural values, traditions, and norms that exist within a community and are passed down from generation to generation (Basri et al., 2022; Kurniati et al., 2020; Riadi et al., 2023). As explained by Sumardjoko & Musyiam (2018), local wisdom is a cultural heritage rich in noble values and serves as a strong foundation for character education. One form of Acehnese local wisdom with great potential to be developed as a

teaching medium is *Do Da Idi*, a traditional lullaby usually sung by a mother to her child. *Do Da Idi* contains moral messages and Islamic teachings embedded in its lyrics, such as parental love, life advice, religious values, and hopes for the child's future. The verses also reflect the gentle nature of Acehese culture in raising children with love, moral education, and exemplary conduct (Muzakki & Fauziah, 2015; Warmansyah, Zalzabila, et al., 2023; Wulansari, 2017). An educational approach based on local wisdom holds great potential in shaping children's morality because these values are closely related to their daily experiences, making them easier to understand and apply (Amelia et al., 2017; Musi et al., 2022).

At TK IT Insan Madani Banda Aceh, an integrated Islamic kindergarten, there is a strong commitment to instilling Islamic moral values in its students. However, observations show that the teaching materials used are still dominated by conventional textbooks, which are often less engaging for young children. Initial observations at TK IT Insan Madani Banda Aceh revealed that moral learning media are still limited to conventional textbooks and are less appealing to early childhood learners. These limitations hinder the optimal delivery of moral messages, as inappropriate media can reduce children's interest and engagement in the learning process. Therefore, there is a need for alternative media that are more communicative and relevant to the developmental needs of children.

Piaget suggested that early childhood education will be more beneficial if it is based on meaningful learning experiences that are relevant to children's cognitive and social development (Handayani et al., 2017; Purba et al., 2024; Warmansyah, Utami, et al., 2023). Basri et al., (Basri et al., 2022) further stated that e-books based on local wisdom allow children to interact with moral values through stories, illustrations, and activities that align with their culture. This aligns with Bruner's constructivist learning theory, which emphasizes that children learn more effectively when new information is connected to their existing experiences. Menurut Putri et al., (2022), moral education during childhood is crucial in shaping character and personality, helping children distinguish between right and wrong behavior, and forming the foundation for positive social interactions. Although TK IT Insan Madani Banda Aceh has implemented various moral education initiatives, the school still faces challenges in delivering moral lessons effectively.

The development of an Acehese local wisdom-based e-book as a moral learning tool at TK IT Insan Madani Banda Aceh is expected to address these challenges. This e-book can be designed with engaging visuals and contextually relevant stories. By integrating Acehese local wisdom, children can learn to recognize and appreciate their own culture while internalizing the moral values embedded within it.

Based on this background, this study aims to develop an e-book entitled "*Do Da Idi: A Mother's Song of Love*" as a learning medium that incorporates the *Dodaiddi* lullaby to instill moral values in early childhood students at TK IT Insan Madani Banda Aceh. Furthermore, this study also aims to determine the feasibility of the e-book based on expert validation results and children's engagement in its use.

METHODS

This study employs the Research and Development (R&D) method using the ADDIE development model, which consists of five stages: Analysis, Design, Development, Implementation, and Evaluation. This method was chosen because it is considered highly relevant to the research objectives, not only to produce a specific product but also to evaluate and test its feasibility (Tampubolon et al., 2012). The product developed in this study is a picture story e-book entitled “*Dodaidi: A Mother’s Song of Love*”, which contains traditional Acehese lullabies as a medium for instilling moral values. By applying this systematic approach, the researcher can thoroughly plan, develop, and test the product.

The study adopts a quantitative descriptive approach aimed at systematically, factually, and accurately describing and explaining the phenomena related to the facts and relationships under investigation (Ramadan, 2021). In this research, the approach is used to assess the feasibility of the developed product based on quantitative data obtained through validation and observation processes. The research was conducted at TK IT Insan Madani Banda Aceh, involving 19 children aged 5–6 years as participants. Data collection techniques included validation by media and material experts, as well as a trial of the Acehese local wisdom-based e-book “*Dodaidi: A Mother’s Song of Love*” to evaluate the product’s feasibility for children. The validation was carried out by two experts (one media expert and one material expert) using a Likert scale questionnaire (1–5).

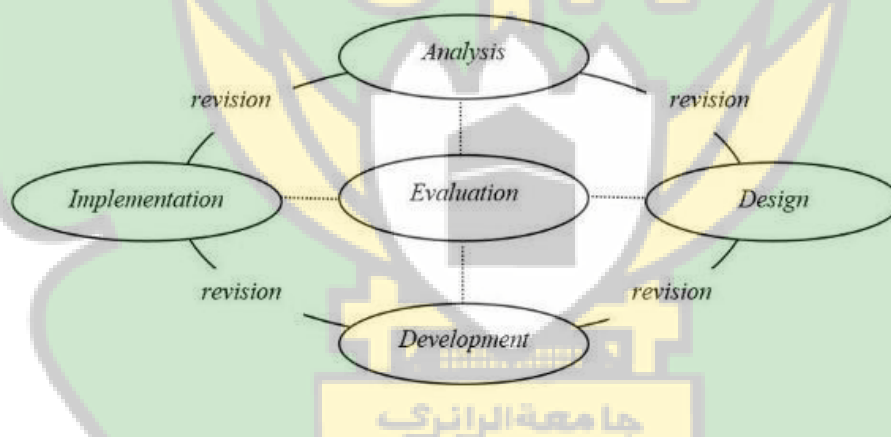


Figure 1. ADDIE Model Stages

Analysis Stage: According to (Sultan & Kasim, 2024) the analysis stage is the initial step in the ADDIE development model (Analysis, Design, Development, Implementation, Evaluation). The analysis stage in this study was carried out through direct observation at TK IT Insan Madani Banda Aceh to identify problems in the learning process, particularly the lack of engaging and appropriate digital learning media for instilling moral values in early childhood. The observation results indicated that the media used were still conventional and had not been able to convey moral messages in a contextual and enjoyable way. Therefore, there is a need for learning media that are more communicative and closely connected to children’s experiences, one of which is through an e-book containing the *Dodaidi* lullaby as a form of Acehese local wisdom that carries moral values.

Design Stage: The researcher prepared the initial design of the e-book, compiling Acehnese *Dodaidi* folk poems that convey moral values. Visual designs and storylines were crafted to suit the developmental stage of early childhood learners. At this stage, the researcher also developed validation instruments for media and material experts as part of preparation for subsequent stages.

Development Stage: According to Cahyadi (2019), the development stage aims to produce and test learning media based on the previously created design (Rachma et al., 2023). At this stage, the e-book design that had been prepared earlier was developed into a digital product in the form of a picture story e-book containing the Acehnese *Dodaidi* lullaby, complete with audio elements. The development process included: a) Compiling the e-book based on the story script and *Dodaidi* lyrics containing moral values, complete with visual illustrations and audio narration; b) Conducting validation by material experts and media experts to assess content feasibility, display quality, and the integration of images, text, and audio in conveying moral values to early childhood learners; c) Revising the product based on suggestions from experts to improve visual quality, language, and the appropriateness of content with the characteristics of children's development.

Implementation Stage: At this stage, the revised e-book was tested with children aged 5–6 years at TK IT Insan Madani Banda Aceh. The trial was conducted to observe the children's responses and engagement during the use of the e-book in learning activities. Observations focused on how the children listened to the story, paid attention to the illustrations, and responded to the moral messages conveyed in the *Dodaidi* lullaby.

Evaluation Stage: The evaluation stage is the final step in the ADDIE development model. Surahman (2016), explains that the purpose of this stage is to ensure that all phases of the process are carried out according to procedure. This final stage was conducted to assess the feasibility of the e-book based on expert validation results and observational data collected during the trial. The evaluation was carried out using a percentage formula to determine the level of feasibility of the media.

Table 1. Media Design Overview

No	Description	Image Description
1	Cover	Front cover illustration titled " <i>Dodaidi: A Mother's Song of Love</i> "
2	Introduction Page	Explains the purpose and objectives of the e-book development
3	Table of Contents	Lists the e-book's chapters and sections
4	Content Pages	Contains <i>Dodaidi</i> poems and related materials
5	Acknowledgments Page	Expresses gratitude to all contributors involved
6	Glossary Page	Lists terms used within the e-book
7	Author Information Page	Provides a brief author profile with additional elements

Table 2. Feasibility Rating Criteria (Adapted from Sugiyono, 2008)

Result Category	Percentage	Qualification	Follow-Up
1	< 55%	Not Feasible	Revise

2	56%–75%	Fairly Feasible	Revise
3	76%–85%	Feasible	Implement
4	86%–100%	Highly Feasible	Implement

Table 3. Media Expert Validation Questionnaire (Aini, 2022)

No	Aspect	Indicators
1	Media Design	Balance and proportion of visual elements; image resolution; color selection; appropriate backgrounds
2	Media Size	Text color appropriateness; legibility of text size; font consistency
3	Audio	Clear audio; page transitions synchronized with narration

Table 4. Material Expert Validation Questionnaire

No	Aspect	Indicators
1	Content Feasibility	Alignment of materials with moral learning objectives; suitability of <i>Dodaidi</i> content for 5–6-year-olds; benefit of Acehese local wisdom for moral teaching
2	Presentation	Consistency of content with e-book title and <i>Dodaidi</i> theme; engaging layout and visuals for 5–6-year-olds
3	Language Aspect	Language fostering age-appropriate moral attitudes; clear, readable fonts; large, recognizable illustrations

Data collection included both expert validation and child observation. Expert validation gathered expert opinions on the quality and feasibility of the developed product, ensuring it met theoretical and practical standards before trial use. Meanwhile, child observation involved systematically recording children's behaviors and responses while using the product, using structured observation instruments

Quantitative data from validation and observation were analyzed using percentage formulas, which simplify numeric data for interpretation. The overall feasibility of the Acehese local wisdom-based e-book was determined using the following percentage formula:

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

Where:

P = Percentage score

F = Score obtained

N = Maximum possible score

P = Percentage score

F = Score obtained

N = Maximum possible score

The score criteria used in the child trials aimed to assess the achievement level of moral aspects delivered through the e-book. The trials observed children's direct responses and engagement, particularly in understanding values such as love, responsibility, and gratitude.

This assessment was guided by indicators in a structured observation sheet, with each score reflecting how actively children responded to the learning content and activities.

Table 5. Score Criteria

Score (P)	Criteria
$P > 75\%$	Feasible
$P \leq 75\%$	Not Feasible

RESULTS AND DISCUSSION

This study aims to develop a learning medium in the form of an Acehese local wisdom-based e-book as a means of instilling moral values in children aged 5–6 years at TK IT Insan Madani Banda Aceh. The development process was carried out using the Research and Development (R&D) method with a quantitative descriptive approach, following the systematic stages of the ADDIE model (Analysis, Design, Development, Implementation, Evaluation) (Sugihartini & Yudiana, 2018). The ADDIE model was chosen because it provides a clear and structured framework to ensure that the resulting product meets user needs. The developed e-book, entitled “*Dodaidi: A Mother’s Song of Love*”, contains stories and illustrations specifically designed to support the process of teaching moral values to early childhood learners.

Analysis Stage

Along with the advancement of technology and changes in learning patterns in the digital era, the demand for innovative learning media is increasing (Eliza et al., 2022). At this stage, the researcher conducted direct observations at TK IT Insan Madani Banda Aceh to identify learning needs, particularly in instilling moral values in early childhood. The observations revealed that the learning media used by teachers were still conventional, less engaging, and not specifically designed to convey moral values such as love, responsibility, and religiosity. Teachers generally relied on general textbooks that were not contextualized to children’s lives.

Based on these findings, the researcher concluded that it was necessary to develop learning media that better suit children’s characteristics and can convey moral messages in an engaging way. Therefore, an e-book entitled “*Dodaidi: A Mother’s Song of Love*” was developed, featuring traditional Acehese lullabies in the form of illustrated stories and audio as a medium to instill moral values in children aged 5–6 years.

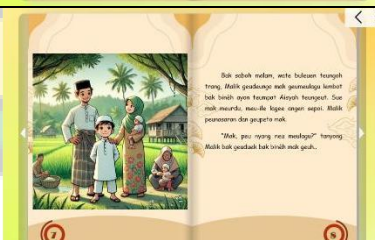
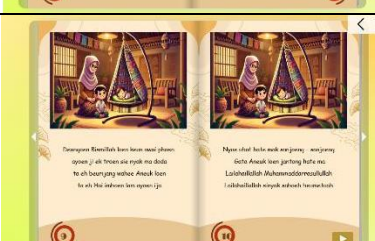
Design Stage

At the design stage, the researcher began structuring the e-book by adapting the story content, visuals, and audio to suit the developmental characteristics of early childhood. The Acehese *Dodaidi* lullaby, which contains moral values, was chosen as the main content of the e-book. The researcher then developed a storyline that illustrates values such as love, responsibility, gratitude, and religiosity in children’s daily lives.

The visual design was carried out with attention to bright, engaging, and easily understandable illustrations for children. In addition, the researcher prepared a narration script

for the audio reading of the text and lullaby in the Acehnese language to support children's comprehension of the story content. At this stage, validation instruments for material and media experts, as well as observation sheets for assessing children's engagement, were also prepared as part of the product feasibility testing plan.

Table 6. Display of E-Book Learning Media

No	Description	Design Displa
1	Cover	
2	Introduction and Table of Contents Page	
3	Page 1	
4	Page 2	
5	Page 3	
6	Page 4	

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Page 5



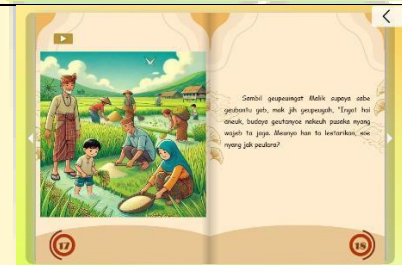
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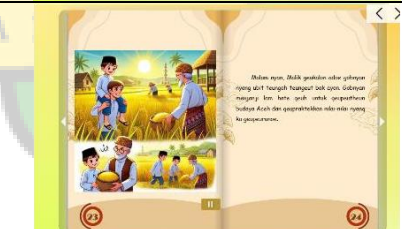
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Acknowledgment
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Glosary Page

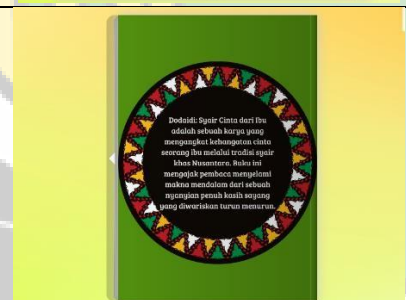


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Synopsis



Development Stage

This stage is the process of transforming the initial design into an e-book product ready for feasibility testing. The e-book entitled “*Dodaidi: A Mother’s Song of Love*” was developed in digital form, featuring illustrated stories and the *Dodaidi* lullaby in the Acehnese language, complete with audio. The initial product was then validated by two experts—one material expert and one media expert—to assess the appropriateness of the content, visual presentation, and the integration of text, images, and audio in conveying moral messages to early childhood learners.

Table 7. Results of the Product Feasibility Test Phase 1

Validasi Ahli	Total Skor	Persentase (%)	Rata -rata
Ahli Materi	30	75%	3,75
Ahli Media	31	62%	3,1

Table 8. Results of the Product Feasibility Test Phase 2

Expert Validation	Total Score	Percentage (%)	Average
Content Expert	36	90%	4.5

Media Expert	40	80%	4
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The first-stage validation results indicated that the e-book required several improvements. The material expert gave a score of 75% (categorized as fairly feasible), while the media expert gave a score of 62% (categorized as fairly feasible). Based on feedback from the experts, the researcher made revisions such as improving the language wording, adding illustrations that reflect Acehese culture, and adjusting the content to suit children's developmental stages.

After the revisions were made, the e-book underwent a second-stage validation. The results showed an increase in scores to 90% from the material expert (categorized as highly feasible) and 80% from the media expert (categorized as feasible). These results indicate that the developed e-book has met the feasibility criteria as a learning medium for instilling moral values in early childhood.

Implementation Stage

At the implementation stage, the e-book entitled "*Dodaidi: A Mother's Song of Love*" was tested with 19 children aged 5–6 years at TK IT Insan Madani Banda Aceh. The purpose of this trial was to observe the children's engagement and responses when the e-book was used in learning activities. The activity was carried out over three days, with direct observation of the children's behavior as the teacher read the e-book aloud and played the *Dodaidi* lullaby through the audiovisual features.

Table 9. Detailed Breakdown of Daily E-Book Trial Scores and Percentages

Day	Respondents	Questions (P1–P6 Scores)	Total Scores	Percentage	Max Total	Average
First Day	AAA, AA, B, MN, AA, TA, FF	P1–P6 → 2, 2, 2,	11, 11,	92%, 92%,	12,	91,67
		2, 2, 2, 2; 2, 2, 2,	11, 11,	92%, 92%,	12,	
		2, 2, 2, 2; 1, 1, 1,	11, 11,	92%, 92%,	12,	
		1, 1, 1, 1; 2, 2, 2,	11,	92%	12,	
		2, 2, 2, 2; 2, 2, 2,			12,	
		2, 2, 2, 2; 2, 2, 2,			12, 12	
Second Day	N, A, H, A, MZ, S, SMR	P1–P6 → 2, 2, 2,	12, 12,	100%, 100%,	12,	100
		2, 2, 2, 2 (for all	12, 12,	100%, 100%,	12,	
		questions and	12, 12,	100%, 100%,	12,	
		respondents)	12	100%	12,	
					12, 12	
Third Day	ASA, MD, AS, SF, AM	P1–P6 → 2, 2, 2,	10, 10,	100%, 100%,	10,	100
		2, 2 (for all	10, 10,	100%, 100%,	10,	
		questions and	10	100%	10,	
		respondents)			10, 10	

On the first day, the trial involved seven children, namely AAA, AA, B, MN, AA, TA, and FF. Out of a maximum score of 12, each child scored 11, indicating an engagement level of 92%. The overall average score showed that the e-book was well-received by the children. On the second day, another seven children participated as respondents—N, A, H, A, MZ, S, and SMR. All of them achieved the maximum score of 12, with an engagement percentage of 100%, indicating that the children showed high interest and were actively involved throughout the activity. On the third day, five children participated as respondents—ASA, MD, AS, SF, and AM. All again achieved the maximum score of 12, with an engagement percentage of 100%, consistent with the previous day's results.

Overall, the trial results indicate that the *“Dodaidi: A Mother’s Song of Love”* e-book achieved a high level of children’s engagement, ranging from 92% to 100%. Based on the feasibility criteria used, this range falls into the “feasible” category. This finding suggests that the e-book can serve as an engaging and appropriate alternative learning medium to support the instillation of moral values in early childhood.

Evaluation Stage

The evaluation was conducted based on the validation results from the media expert and the material expert for the *“Dodaidi: A Mother’s Song of Love”* e-book. In the first validation stage, the media expert gave a score of 62%, categorized as “fairly feasible.” Suggestions included adding illustrations that support the story content and reflect the local context to make it closer to children’s experiences, aligning the content with observation indicators, and removing irrelevant videos. After revisions were made, the score increased to 80%, categorized as “feasible for use without revision.”

From the material aspect, the first validation stage yielded a score of 75%, categorized as “fairly feasible.” Suggestions for improvement included refining sentence structures, strengthening the delivery of moral and religious values, and adjusting the assessment criteria. After revisions, the score increased to 90%, categorized as “highly feasible.”

Based on the validation results and the trial with children, this e-book was declared feasible for use as a learning medium to instill moral values in early childhood. The integration of text, images, and audio in the e-book also supports children’s engagement in the learning process in accordance with their developmental characteristics.

CONCLUSION

This study developed an e-book entitled *“Dodaidi: A Mother’s Song of Love”*, based on Acehese local wisdom, as a medium for instilling moral values in early childhood at TK IT Insan Madani Banda Aceh. Using the ADDIE model (Analysis, Design, Development, Implementation, Evaluation) and a quantitative descriptive approach, the e-book was designed to include contextual stories and illustrations that support the delivery of values such as religiosity, love, responsibility, and gratitude.

Validation results showed that the e-book achieved a high level of feasibility, with scores of 90% from the material expert and 80% from the media expert. A three-day trial with children demonstrated excellent engagement levels, ranging from 92% to 100%. These findings indicate that *“Dodaidi: A Mother’s Song of Love”* can serve as an engaging alternative learning

medium, suited to the characteristics of early childhood, while supporting the enjoyable instillation of moral values. This study recommends the use of locally contextualized e-books such as “*Dodaidi: A Mother’s Song of Love*” as an innovative approach to strengthening character education from an early age and provides practical guidance for teachers in developing learning media that are relevant to children’s worlds.

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