

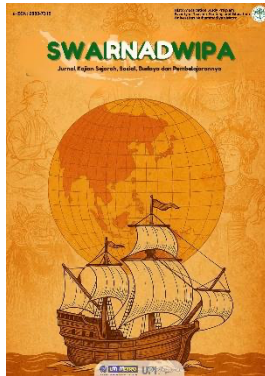
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## DEVELOPMENT OF E-BOOKLET HISTORY LEARNING MEDIA ON MATERIAL ON THE ORIGINS OF INDONESIAN ANCESTORS AND THE SPICE PATH IN THE PRIVATE PERIOD OF CLASS X OF SENIOR HIGH SCHOOL

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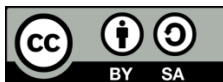


### Abstract

This research aims to develop an E-Booklet-based learning media on the topic of the origins of the ancestors of the Indonesian nation and the spice routes during the prehistoric era for Class X students at SMA Muhammadiyah 1 Metro. The research method used is Research and Development (R&D) with Sugiyono's Level 1 development model, which includes the stages of needs analysis, product design, expert validation, and revision. Data collection was conducted through interviews, questionnaires, and observations with teachers and students. The research results show that the (1) learning media at SMA Muhammadiyah 1 Metro is still lacking in variety and innovation, causing students to struggle in understanding history material. (2) The developed E-Booklet is designed to provide a more engaging summary of the material, equipped with relevant images and videos. Expert validation in both material and media shows that this E-Booklet is suitable for use in learning. The implication of this research is (3) that the use of E-Booklet media can increase student interest and understanding of history material, particularly on the topic of the origins of the ancestors of the Indonesian nation and the spice routes, as well as encourage the application of technology in history learning at schools.

**Keywords:** E-Booklet; History Learning

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### INTRODUCTION

Education is the main foundation for individual and societal progress. Through the educational process, a person acquires the essential knowledge, skills and values to thrive and adapt in an ever-changing world. Education is not only about information transfer, but also about shaping character, ethics, critical thinking. An effective education system must be able to respond to the needs of the times, facilitate creativity, and encourage innovation. Without quality education, social and economic disparities will widen, hampering the potential for sustainable growth and development. History learning has an important role in education because it helps students understand the development of human civilization, both from political, economic, social and cultural aspects. Through learning history, students can see how past events have shaped the world they live in today. It is not just about memorizing dates and facts, but also about analyzing the cause and effect of events, understanding the broader context and drawing lessons from past experiences.

An educator has an obligation to continue to innovate the learning media he uses. Technology-based learning media has many advantages. It can not only stimulate students' interest in learning but also improve their learning outcomes. Like using E-Booklets as learning media because E-Booklets are very interesting. (Rahmawati et al., 2021) E-Booklet media is not only a textbook, but as an alternative learning refresher in the classroom that tries to make students interested in History subject matter and explore knowledge besides that it can also be used as a history learning media.

Research by M. Ari Apriandi and Ragil Agustono (2018) developed a booklet learning media based on the Batu Berak megalithic site in West Lampung, which has been validated through two stages of feasibility testing. The validation results show that this booklet obtained a feasibility percentage of 77% in the first stage and 91.4% in the second stage for material validation, as well as 82.4% and 89% for media validation. Meanwhile, Dera Suci Tri Wahyuni's research (2023) developed an E-Booklet as a history teaching material for high school students which has also gone through the validation stage and reached the "Very Feasible" and "Very Practical" categories with the highest score of 95.4% on the professional scale and 93.4% in the practical test. The difference between the two lies in the topics studied, where the research to be conducted by the researcher focuses on the origins of the ancestors of the Indonesian people and the spice route in the prehistoric period, and aims to improve historical literacy through E-Booklets.

Based on the results of interviews and observations during the introduction of the school field (PLP) at SMA Muhammadiyah 1 Metro. especially in class X phase E, it was found that in learning history at school on the material of the origin of the ancestors of the Indonesian people and the spice route in the prehistoric period students still have difficulty in understanding this material.

The history learning media used is in the form of conventional media, such as powerpoint, which means that the learning media used, thus causing boredom for students. In addition, in learning activities passive students play cellphones, chat with their classmates and some even fall asleep so that they ignore the explanation given by the teacher. The lack of variation in the use of learning media causes the creation of a pleasant learning atmosphere so that in this case it is necessary to design an interactive digital-based learning media. Previous research that has been done is still limited to the use of learning media in the form of printed booklets based on the relics of the berak stone site (M. Ari Apriadi 2018). Based on this, it is necessary to develop digital E-Booklets in particular. In this research, students of SMA Muhammadiyah 1 Metro need technology-based learning media innovations that are audio-visual based so that learning history is more interesting.

## **RESEARCH METHODS**

The method used in this research is Research and Development (R&D) with a development model adapted from Sugiyono level 1. This research involves several stages, starting from preliminary studies, information gathering, product design, validation by a team of experts, to product revision. This process involved history teachers, students, and material experts in providing suggestions and validation of the developed E-Booklet.

## **RESULTS AND DISCUSSION**

### **Description of History Learning Media at SMA Muhammadiyah 1 Metro.**

Based on observations and interviews with Mr. Tomi Kusuma, a history teacher at SMA Muhammadiyah 1 Metro, it was found that although the learning facilities and infrastructure at the school are adequate, the history learning media is still less innovative. The use of history learning media in this school is mostly limited to the textbooks provided by the school library. In addition, students are allowed to find other references through the

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internet to increase understanding. On the other hand, the school also provides a good internet network (Wifi) to support the learning process in class.

The following is an excerpt from an interview with Mr. Tomi Kusuma regarding history learning media at SMA Muhammadiyah 1 Metro: "Regarding history learning, the learning media used are usually history textbooks from the school library, powerpoint, pictures and movies once or twice. The facilities and infrastructure at SMA Muhammadiyah 1 Metro are actually quite good, including the availability of Wi-Fi. However, in learning history, the media used is still limited. I don't have other media references to use in learning history, only occasionally I use PowerPoint, pictures, and historical films. However, this is only once or twice. There needs to be a development of learning media that is more interesting for students, especially in history subjects." (Interview, August 30, 2023)

This statement is corroborated by the response of one grade X student, Rendi, who revealed that: "The media in learning history is still based on textbooks, PowerPoint, and occasionally pictures and historical films. The facilities are good, but the learning media is still less innovative, so it makes us less interested in learning history." The statement above shows that the available media is still limited to textbooks and occasional simple visual presentations. This has an impact on students' low interest in understanding complex historical material, such as the origins of Indonesian ancestors and the spice route in the prehistoric period.

#### **Needs Analysis of History Learning Media at SMA Muhammadiyah 1 Metro.**

Based on the conditions and needs of students and teachers at SMA Muhammadiyah 1 Metro, it is hoped that there will be an innovation in history learning media that is able to display audiovisuals simultaneously in the form of E-Booklets on the material of the origin of the ancestors of the Indonesian people and the spice route in the prehistoric period that has not kept up with technological developments. Every teacher, especially history teachers, in conducting learning only uses books available in the library and references from the internet, powerpoints, movies and pictures once or twice. For learning media that follow technological developments such as e-catalogs, e-books, e-modules, flip books, learning E-Booklets still do not exist at SMA Muhammadiyah 1 Metro.

Basically, education is the way society makes a conscious effort to educate the younger generation. Education can start from what students know and have. This refers to their cultural environment or the place where they live (Rahman et al., 2022). Therefore, based on this, the world of education needs and must adapt to current developments, especially in terms of learning media.

Based on the results of the research process carried out by researchers analyzing the needs of the potential and existing problems, it can finally be concluded that what is needed at SMA Muhammadiyah 1 Metro is a development of learning media that is in accordance with the potential and problems that exist at SMA Muhammadiyah 1 Metro. Therefore, researchers developed an E-Booklet historical learning media development product for the material of the origin of the ancestors of the Indonesian people and the prehistoric spice route and utilized technological advances. History learning media that follows the development of technology that is expected and needed at SMA Muhammadiyah 1 Metro, including e-catalogs, e-books, e-modules, flip books, learning E-Booklets as will be developed by researchers. Therefore, the researcher developed an E-Booklet learning media that contains material on the origin of the ancestors of the Indonesian people and the prehistoric spice route. The E-Booklet that the researcher developed can be accessed via laptop, smartphone, android anytime and anywhere.

The development of this E-Booklet learning media contains the origins of the ancestors of the Indonesian people and the prehistoric spice route which is adjusted to the

CP and TP so that researchers expect students to be able to more easily understand the material provided.

### **Design of the Product to be developed.**

Based on the needs analysis conducted by researchers based on conditions in the field, technology-based learning media is needed in accordance with existing conditions and needs as a medium for learning the history of the origin of Indonesian ancestors and the prehistoric spice route in the field. Therefore, researchers developed E-Booklet learning media containing material on the origin of Indonesian ancestors and prehistoric spice routes. By looking at the CP and TP of the material to be developed, it is expected to be a learning media that can attract student interest in learning. The stages of designing the E-Booklet to be developed are:

#### **1. Material Preparation**

At the stage of preparing the material was carried out on July 19, 2024 by doing from various sources of reference about the origins of the ancestors of the Indonesian people and the prehistoric spice route such as books and journals, namely the book Indonesian History of the Prehistoric Period belonging to Drs. Herimanto, M.Pd, Si published in 2012, IPS History belonging to Ratna Hapsari & M. Adil published in 2022, Marwati Djoened Poesponsorogo's Indonesian National I & Nugroho Notokusanto published in 1992, then a journal from Fatayat Ridho Mintarsih in 2020 from the Indonesian education and research development center with the concept of the title Indonesian History, Tresnaningsih in 2017 from the Ministry of Education and Culture with the concept of the title Indonesian History. Then after the material is compiled, the material will be arranged as follows:



Gambar 1. Cover E-Booklet

### **Product Description**

This E-Booklet is a learning media that has been validated and revised according to the suggestions and comments given by the material team and design experts and received an assessment from students who participated in the trial. This E-Booklet has been designed to meet the needs of the learning process and help students, based on research conducted by researchers to find out the analysis of learning media needs at SMA Muhammadiyah 1 Metro which requires learning media, especially in technology-based history learning. Mr. Tomi Kusuma, S.Pd as a history subject teacher at SMA Muhammadiyah 1 Metro stated that technology-based learning media are needed such as e-books, e-modules, e-catalogs, flip books, learning animation videos and learning E-Booklets. So that from this, researchers developed E-Booklet learning media by designing this developed product to have an attractive appearance and filter so that it can attract students' learning interest, besides that it has gone through the validation stage carried out by media experts and material experts.

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The products that have been produced in this development research are E-Booklets on the material of the origin of the ancestors of the Indonesian people and the spice route in the prehistoric period which are valid and feasible to use in the field with all the suggestions and improvements of expert validators that have been realized. This E-Booklet development product has been designed according to the needs and development of students. After going through several stages of validation and improvements, a valid product is obtained and has the following advantages:

1. The material on the origin of the ancestors of the Indonesian people and the prehistoric spice route is arranged in a concise and systematic manner, making it easier for students to understand the content of the E-Booklet developed.
2. Learning media that follow technological developments, for example the E-Booklet developed by researchers, can make it easier for teachers to deliver material and students to easily understand the material.
3. The E-Booklet is designed to be used by students independently, so that when at home without the guidance of the teacher, students still learn using the E-Booklet.
4. The E-Booklet design developed by researchers has concise, structured material, the language used is easy to understand, and has many pictures that attract students' interest in learning, besides that its use is easy and user friendly, meaning that the menus can be accessed easily and do not confuse.
5. The form of the E-Booklet developed by the researcher is a website link and barcode that can be opened and accessed anywhere via cellphone.

The development of this E-Booklet also certainly has some weaknesses, the following weaknesses in the E-Booklet product of the origin of the ancestors of the Indonesian people and the spice route in the prehistoric period developed:

1. The material contained in this E-Booklet is only limited to the origin of the ancestors of the Indonesian people and the spice route in the prehistoric period, so that other materials cannot use this E-Booklet.
2. This research is only in the form of E-Booklet products in the form of website links and barcodes which will be useful as learning media and not in the form of printed publications such as books.
3. In this development research is only limited to the level 1 development stage so that it is only limited to product validation testing by experts or practitioners and does not reach the trial stage.

### Discussion

The results showed that this E-Booklet was very effective in attracting students' interest in learning, which was reflected in the validator's assessment and the results of the field trial. This is in accordance with the theory of Malau and Nurjaman (2019) which states that modern learning media such as E-Booklets can increase effectiveness and efficiency in the learning process. Product validation by material and media experts also strengthens these findings, with a validation score that is close to perfect, indicating that the E-Booklet is suitable for use as a history learning media. The data from the validation results can be seen from the average assessment of the material validators in stages 1 and 2 in the table as follows:

**Tabel 1. Data tahap 1 validasi materi**

Validator Assessment	Total assessment score	Average number of eligibility	Percentage	Description
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1	73	0,81	81%	feasible to use with revisions based on suggestions
2	65	0,72	72%	feasible to use with revisions based on suggestions
Total score Overall	138	0,76	76%	<b>feasible to use with revisions based on suggestions</b>

From the data table of the results of stage 1 material validation above, the assessment given by validator 1 obtained a total assessment score of 73, an average of 0.81, a percentage of 81% is included in the description worth using with revisions based on suggestions. While the assessment given by validator 2 obtained a total assessment score of 63, an average of 0.72, a percentage of 72% is included in the description worth using with revisions based on suggestions. For the total score of validators 1 and 2 obtained a score of 138, an average of 0.76, a percentage of 76%. So to obtain the total score, it is included in the description worth using with revisions based on suggestions.

In stage 1 validation, comments and suggestions from material validators 1 and 2 were obtained as follows:

Table 2. Comments and suggestions from stage 1 material expert validation.

Material Expert Validator	Comment
Validator 1	a. Feasible to use with revisions, need to revise the objectives and learning outcomes in the preparation of E-Booklets b. Bibliography is adjusted
Validator 2	a. Sentence order and accuracy improved

Based on the input and suggestions given by material validators 1 and 2 above, the researcher will revise the E-Booklet developed based on the comments and suggestions given by the validator to make it better and achieve feasibility. After making improvements, the researcher conducted stage 2 validation, the following is a table of validation 2 results:

Table 3. Data from stage 2 of material validation.

Assessment Validator	Total score Assessment	Total average eligibility	Percentage	Description
1	85	0,85	85%	Very feasible to use
2	80	0,80	80%	Very feasible to use
Total score Overall	165	0,91	91%	<b>Very feasible to use</b>

From the table of stage 2 material validation results above, the assessment given by validator 1 obtained a total assessment score of 85, the average feasibility of 0.85, a percentage of 85% is included in the description very feasible to use. While the assessment given by validator 2 obtained a total score of 80, the average feasibility of 0.80, a percentage of 80% so that it entered the criteria very feasible, so the E-Booklet material developed was declared feasible by the validator team.

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**Table 4. Media expert validation data. Stage 1**

Assessment Validator	Total score Assessment	Total average eligibility	Percentage	Description
1	62	0,77	77%	Feasible to use with revisions based on suggestions
2	72	0,90	90%	Feasible to use with revisions based on suggestions
Total score	134	0,83	83%	<b>Feasible to use with revisions based on suggestions</b>

**Table 5. comments and suggestions from media expert validation**

Media expert validator	Comments and suggestions
Validator 1	<ul style="list-style-type: none"> <li>• Revise the cover of the name section of the E-Booklet</li> <li>• Correct the level of class X and the level of SMA / SMK                             <ul style="list-style-type: none"> <li>• Add music to the E-Booklet</li> </ul> </li> <li>• Improve the writing style according to fuebi format</li> </ul>
Validator 2	<ul style="list-style-type: none"> <li>• Improve writing style according to fuebi format</li> <li>• adding photos of supervisors in the developer profile section</li> </ul>

Based on the input and suggestions given by the validator above, the researcher will improve the E-Booklet developed according to what the validator suggests to make it even better in order to achieve feasibility for the trial. After the improvement, the researcher conducted stage 2 validation following the table of validation results from stage 2:

**Table 6. Media expert validation data Stage 2**

Assessment Validator	Total score Assessment	Average number of eligibility	Percentage	Description
1	75	0,93	93%	Very feasible to use
2	73	0,91	91%	Very feasible to use
Total Score	148	0,92	92%	<b>Very feasible to use</b>

From the table of the results of stage 2 media validation above, the assessment given by validator 1 obtained a total assessment score of 75, the average feasibility of 0.93, a percentage of 93% is included in the description very feasible to use. While the assessment given by validator 2 obtained a total score of 73, the average feasibility of 0.91, a percentage

of 91% so that it entered the criteria very feasible, so the E-Booklet media developed was declared feasible by the validator team.

### **Product Presence Address**

The E-booklet on the origins of the ancestors of the Indonesian people and the spice route during the prehistoric period was tested on grade X students at SMA Muhammadiyah 1 Metro, but can be used by other schools if the teacher wants to use technology-based learning media according to the times. Even this E-Booklet can be used for the public.

Currently, the product can be accessed by opening the address <https://heyzine.com/flip-book/c8b4c7f8c2>.html in the mobile browser and then going to the website link or by scanning the following QR code using the QR scanner on the mobile phone.

### **CONCLUSION**

Based on the results of this study, it shows that based on the needs analysis of history learning media used in class X SMA Muhammadiyah 1 Metro is still traditional, which focuses on textbooks and occasionally uses powerpoint and pictures. Although facilities and infrastructure such as internet networks are adequate, the use of more innovative learning media such as audiovisual is still very limited. This causes students' interest in learning history lessons to be less than optimal, especially in understanding more complex material such as the origins of the ancestors of the Indonesian people and the spice route in the prehistoric period.

The learning media development design designed in this study focuses on making interactive E-Booklets. This E-Booklet is designed to meet the needs of history learning by presenting material in a more visual, interesting and interactive way. The design process involves designing materials, concept maps, and learning outcomes that are organized systematically to facilitate student understanding. In addition, the use of technology such as QR codes and other interactive features is expected to increase student interest and understanding.

The validation results from material experts and practitioners show that the developed E-Booklet is very feasible to use as learning media. At the first validation stage, the material feasibility aspect obtained an average score of 76% with a description of feasible use, but required revision. After making improvements, the results of the second stage of validation showed an increase with an average score of 91%, which indicates that the E-Booklet is very feasible to use. In the validation of media design aspects, the average score in the first stage reached 83%, and after revision, it increased to 92%. Language validation also showed an increase from 80% in the first stage to 87% in the second stage. Overall, these results reflect that the E-Booklet is feasible to use as learning media.

### **REFERENCES**

- Aggraini, M. (2021). Smart Booklet Online Learning Media as a Means of 'Study From Home' for Engineering Students of Panca Bhakti University". *Journal of Education*.
- Amalia, N. I., Yuniawatika, & Murti, T. (2020). Application of Edmodo on Flat Building Material. *JKTP Journal of Educational Technology Studies*, 3(3), 287. <https://doi.org/10.17977/um038v3i32020p282>
- Asmara, Y. (2019). Meaningful History Learning with a Contextual Approach. *Kaganga: Journal of History Education and Social-Humanities Research*, 2(2), 105-120. <https://doi.org/10.31539/kaganga.v2i2.940>
- Broadbent, J., & Poon, W. L. (2015). Self-regulated learning strategies & academic achievement in online higher education learning environments: A systematic review. *The Internet and Higher Education*, 27, 1-13.

<http://dx.doi.org/10.24127/sd.v10i1.4965>

- Devi Putri Yuliana. (2021). DEVELOPMENT OF E-BOOKLET LEARNING MEDIA ON THE BIOLOGY MATERIAL OF THE BODY'S DEFENSE SYSTEM TO IMPROVE THE BIOLOGY LEARNING OUTCOMES OF GRADE XI STUDENTS OF SMAN 1 LABUHAN RATU, EAST LAMPUNG.
- Firmadani, F. (2020). Technology-Based Learning Media as a Learning Innovation in the Industrial Revolution 4.0 Era. Proceedings of the National Education Conference, 2(1), 9397. [http://ejournal.mercubuanayogya.ac.id/index.php/Prosiding\\_KoPeN/article/view/1084/660](http://ejournal.mercubuanayogya.ac.id/index.php/Prosiding_KoPeN/article/view/1084/660)
- Handayani, T. (2019). Development of booklet-based learning media on salt hydrolysis material. Thesis, 21-27.
- Herawati Daulae, T. (2019). Steps in Developing Learning Media Towards Improving the Quality of Learning. Paedagogik Forum, 11(1), 52-63. <https://doi.org/10.24952/paedagogik.v11i1.1778>
- Iwan Setiawan. (2021). Genetic Traces of Early Indonesian Poepole: Evidence from DNA Studies. Jurnal Genetika Indonesia.
- Jalil. (2021). Development of Smart Booklet Media to foster learning motivation of 4th grade elementary school students. Jurnal Guru Kita.
- Kurniawan, D., & Sari, M. (2019). Development of practical E-Booklet for Skills Learning. Jurnal Inovasi Pendidikan, Vol. 8, no.
- Malau and Nurjaman. (2019). Chapter II Theoretical Basis. Journal of Chemical Information and Modeling, 53(9), 8-24.
- Mariana. (2020). Class X history learning module, ancient humans and the origins of ancestors. In Directorate General of PAUD, DIKDAS, and DIKMEN.
- Marlena. (2014). Development of Integrated Inquiry-Based History Learning Module with Character Values for Class X of SMA Negeri 2 Metro. Unpublished Thesis FKIP UM Metro.
- Nurrita, T. (2018). Keywords: Learning Media and Student Learning Outcomes. 03, 171-187.
- Prananda, A., Mahadi, I., & Suzanti, F. (2022). Discovery Learning-Based E-Booklet Development for Increase Students Interest Learning. Bio-Lectura: Journal of Biology Education, 9(2), 277-286. <https://doi.org/10.31849/bl.v9i2.11688>
- Pristiwanti, D., Badariah, B., Hidayat, S., & Dewi, R. S. (2022). Understanding Education. Journal of Education and Counseling (JPDK), 4(6), 1707-1715.
- Rahman, A., Munandar, S. A., Fitriani, A., Karlina, Y., & Yumriani. (2022). Definition of Education, Educational Science and Elements of Education. Al Urwatul Wutsqa: Islamic Education Studies, 2(1), 1-8.
- Rahmawati, R., Marsudi, M., & Sultani, Z. I. M. (2021). Development of E-Booklet Media Based on Local History of Blitar City Government (1906-1945) for Learning Indonesian History for Grade X Students at State Islamic High School (Man) 1 Blitar City. Artifact Journal, 8(2), 137. <https://doi.org/10.25157/ja.v8i2.5839>
- Ratna Sari and M. Adil. (2022). Social Studies History for Grade X High School Independent Curriculum (Hasanuddin (ed.)). Erlangga
- Restu Gunawan, Amurwani Dwi Lestariningsih, and S. (2017). Indonesian History. Center for Curriculum and Books, Research and Development Agency, Ministry of Education and Culture.
- Sari Oktafiana. (2022). History. Center for Curriculum and Books, Ministry of Education and Culture.

- Sarip, M., Amintarti, S., & Utami, N. H. (2022). Validity and Readability of E-Booklet Teaching Media for High School Students on Biodiversity Material. *JUPEIS: Journal of Education and Social Sciences*, 1(1), 43-59. <https://doi.org/10.57218/jupeis.vol1.iss1.30>
- Sugiyono, P. D. (2019). *Research & Development Methods* (M. S. Sofia Yustiyani Suryandari, S.E. (ed.)). Alfabeta.
- Wulandari, A. P., Salsabila, A. A., Cahyani, K., Nurazizah, T. S., & Ulfiah, Z. (2023). The Importance of Learning Media in the Teaching and Learning Process. *Journal on Education*, 5(2), 3928-3936. <https://doi.org/10.31004/joe.v5i2.1074>
- Yumelda. (2022). *Development of E-Booklet Media on Virus Material as a Supporting Media for Learning at State Vocational School 1 Trumon Timur*. 93.