



# Strengthening Indonesian Heritage Culture Through National Wisdom-Based Digital Encyclopedia

Nurhayati<sup>1</sup>(✉) and Febra Anjar Kusuma<sup>2</sup>

<sup>1</sup> Civic Education, Lampung University, Bandar Lampung, Lampung, Indonesia  
nurhayati.1992@fkip.unila.ac.id

<sup>2</sup> Civic Education, Sebelas Maret University, Surakarta, Indonesia  
febraanjar@fkip.unila.ac.id

**Abstract.** Currently there are no teaching materials in the form of digital encyclopedias, especially those related to national identity based on Lampung local wisdom which provide an overview and instill an attitude of preservation of culture and values of Lampung local wisdom. The existence of this research aims to produce a product in the form of a digital encyclopedia that is able to provide insight to readers to know Lampung local wisdom as a national identity. The long-term target of this product in the form of an encyclopedia is to become a reference for students, students, teachers, and the wider community to get to know the identity of Lampung's local tradition which is of course a cultural heritage. This study aims to design, manufacture and test the effectiveness of the Encyclopedia. The type of research conducted is R&D research. The results of the study show that the use of a digital encyclopedia of national identity based on local wisdom can be used by students in understanding national identity material as well as Lampung local wisdom, which of course has an impact on strengthening Indonesian heritage culture.

**Keywords:** Digital Encyclopedia · National Identity · Local Wisdom · Indonesian Heritage Culture

## 1 Introduction

The world has entered a new era, namely the era of digitalization and very rapid technological developments. Bonixe, L., & Dinis, G. (2022) This digital era can have positive and negative impacts on the Indonesian nation [1]. Positive impacts can be felt both in terms of social, economic, political, cultural, and also education because technology allows countries to develop themselves, be creative and innovative, and work at the global level, so that this will bring progress for the Indonesian people. However, the negative impact on the Indonesian nation is of course it will threaten and erode national values in the younger generation. This negative impact has not escaped Indonesia as a multicultural country rich in diversity which cannot escape the digitalization era that is currently developing in the world. In addition, Indonesia as a multicultural country needs

© The Author(s) 2023

R. Perdana et al. (Eds.): ULICoSS 2022, ASSEHR 740, pp. 863–869, 2023.

[https://doi.org/10.2991/978-2-38476-046-6\\_83](https://doi.org/10.2991/978-2-38476-046-6_83)

to maintain the sustainability of the existing cultural heritage so that efforts are needed to strengthen the values of Indonesian cultural heritage in the younger generation. Efforts to minimize the negative impact of the existence of the digital era and strengthen the inculcation of national values in the younger generation so that they still adhere to the noble values of Indonesian culture can be done through education.

Through this education, the young generation as the nation's successors need to know about the National Identity of the Indonesian nation so that supporting learning media needs to be developed in the form of Encyclopedias with a focus on Lampung local wisdom. An encyclopedia certainly tries to explain an article or phenomenon that is complemented by pictures to make it clearer and more interesting [2]. In addition, encyclopedias can also provide information, broaden horizons, and alternative learning resources for their readers [3]. This encyclopedia is presented digitally so that it can keep up with the times creatively and innovatively and can be seen anywhere and anytime using a mobile phone or laptop by every student Nurhayati et al. (2022) so that the Encyclopedia This digital is able to provide interesting visualization by presenting pictures in each description given in each material which raises students' interest in the learning process [4].

There are already many digital media for Civics learning, however, currently there are no Civics teaching materials, especially in the form of digital encyclopedias related to national identity based on Lampung local wisdom. This digital encyclopedia learning media is considered appropriate to be developed in addition to focusing on national identity material, this media also presents material or knowledge related to Lampung local wisdom which is of course one of the Indonesian national identities so that it can indirectly instill cultural preservation and local Lampung wisdom values. especially as an Indonesian heritage culture.

## 2 Method

In this research, the development of a digital national identity-based encyclopedia using local wisdom uses the R&D method in developing the media with the ADDIE development model with the stages of Analysis, Design, Development, Implementation, and Evaluating.

## 3 Results and Discussion

In this study we try to describe the results of the research and discussion simultaneously in accordance with the stages of the research that has been carried out, the following are the results and discussion of this study;

### A. *Analysis Stage*

At this analysis stage there is a needs analysis, namely a digital encyclopedia of national identity based on Lampung local wisdom and the discussion on this matter is motivated by the absence of digital encyclopedia learning media that focuses on Lampung local wisdom as well as an effort to preserve Indonesian culture which is

considered to be increasingly forgotten by the younger generation in this digitalization era. Through this analysis, a digital encyclopedia of national identity based on local wisdom will be designed which can strengthen the Indonesian heritage culture.

### B. *Design Stage*

At this stage, product design is carried out, namely the national identity digital encyclopedia which includes the design of objectives, materials, images, and layout designs that are displayed in the encyclopedia as learning media. The aim of the design of a national identity digital encyclopedia based on local wisdom is to increase the strengthening of Indonesian heritage culture, which of course starts with the local wisdom of Lampung (Fig. 1).

### C. *Development Stage*

At this stage, learning media is made by involving students and lecturers as experts in the field of learning materials and media. This digital encyclopedia is presented in learning so that students can easily understand this media. This learning reconstruction was developed using a digital encyclopedia which can assist the teaching process by displaying learning media online and can be downloaded so that students can read, understand, and study material in learning media freely before class takes place.

### D. *Implementation Stages*

At the implementation stage, the research team implemented the media in a group trial, namely to 20 students. Based on the trials conducted, it can be concluded that the design of this digital encyclopedia is good for use as material in the process of strengthening Indonesian heritage culture. The trial aims to determine whether the use of the developed product has a positive impact on the expected development results and to improve product quality so that the product is ready to be applied in a wider field.

The development of a digital national identity encyclopedia based on Lampung local wisdom as an effort to strengthen Indonesian heritage culture is aimed at increasing students' knowledge about the nation's cultural heritage. The results of the research prerequisite instrument test consist of the normality test and the homogeneity test which have been carried out as shown in Tables 1 and 2.

### E. *Evaluation Stage*

The evaluation phase is the final stage in development research using guidelines from ADDIE. This stage is a follow-up stage of the validity and trial stages that have been carried out so that the advantages of this multimedia design can be identified.

- The encyclopedia of digital national identity based on local wisdom is a learning resource that is presented in e-digital which is posted online which is practical and easily accessible to its users.

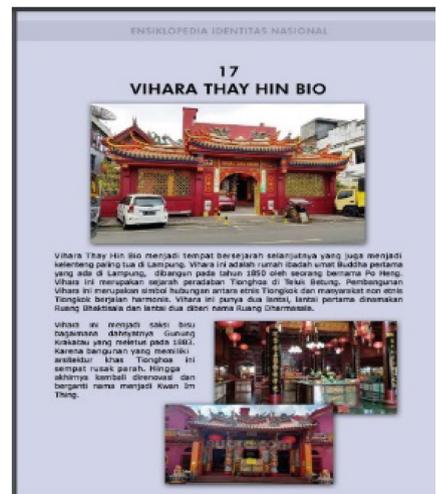
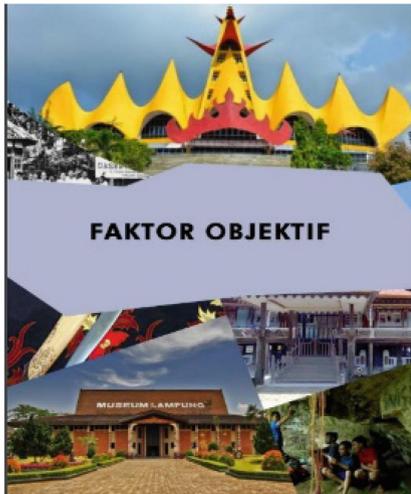
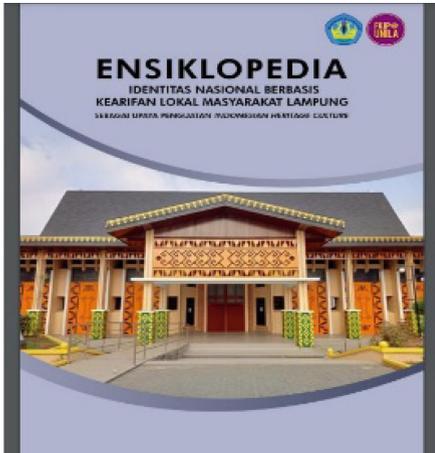


Fig. 1. The Design of a National Identity Digital Encyclopedia Based on Local Wisdom.

**Table 1.** Pre Test Value Normality Test Results

No	Kolomogorov-Smirnof		
	Class	Total	Sig.
1	Experiment	20	0.123

**Table 2.** Pre Test Value Homogeneity Test Results

Test of Homogeneity of Variances			
Pre-Test Score			
Levene Statistic	df1	df2	Sig.
.007	1	63	.934

- Local wisdom-based digital national identity encyclopedia is a digital learning resource media that is practical and easy to use and can be used anywhere.
- The content presented in the Encyclopedia of digital national identity based on local wisdom is very helpful for users in increasing local wisdom knowledge regarding cultural preservation, especially the Lampung province.
- This local wisdom-based digital national identity encyclopedia is an innovative learning media that uses digital technology so that it can support users in learning in the current era.
- Its attractive appearance makes its users not bored when using it.

#### F. *Digital Encyclopedia of National Identity Based on Local Wisdom as an Effort to Strengthen Indonesian Heritage Culture*

Encyclopedia is a learning media that can help students understand the information needed. Encyclopedias are also a learning resource that contains information containing definitions and interesting pictures [5]. This encyclopedia was created to help teachers when giving material, change class conditions so that they are not monotonous and support increasing students' knowledge in understanding a material. Encyclopedias can be a source of learning for students by providing visualization of images that can attract students' interest so that they are interested in further learning processes [6].

The availability of digital encyclopedias of National Identity based on local wisdom is a media and learning resource for students that can be used effectively [7]. This can be seen from the students who are enthusiastic in reading and understanding the contents of the digital encyclopedia that has been distributed through flipbook pages.

This digital encyclopedia focuses on Lampung local wisdom, this is because the initial target of this media is students, especially in Lampung province, to better understand Lampung culture as one of the national identities which will certainly strengthen cultural preservation in Indonesia [8]. Instilling a national identity in the digital era needs to be done and in fact this is being intensively carried out starting from the preservation of

wedding customs in accordance with the culture of each tribe, the custom of welcoming the birth of children, and the pride of young designers in publishing Indonesian special fabrics from various existing tribe.

In the realm of education, it is felt that this digital encyclopedia of national identity based on Lampung local wisdom is appropriate to strengthen the preservation of Indonesian culture Sari et al. (2020) this is because this encyclopedia contains subject matter related to national identity, geographic Lampung, introduces Lampung culture which consists of objective factors and subjective factors, namely consisting of special food, traditional clothes, special dances, and historical places [9].

Based on the results of pretest and posttest observations that have been carried out on students, it can be seen that students understand the local wisdom of Lampung province better after reading the digital encyclopedia. Simply put, buildings that are often passed by and foods that are often eaten or have never been eaten and places that have never been visited, are typical or historical relics in Lampung so far which have only been enjoyed without knowing their history, so that with this encyclopedia they will make them aware that Lampung is rich in uniqueness. culture both from food, clothing, musical instruments, dance, and historical places.

Brief and clear pictures and descriptions certainly make it easier for students to understand the information provided in this media encyclopedia [10]. Thus, indirectly making students have good insight in accordance with the objectives of this digital encyclopedia media [11]. Clear information will lead to good insight so that it does not rule out the possibility of having an impact on the strength of values embedded in students which are clear Pentzold et al. (2017) what is meant here is the preservation of Indonesian culture, although we start from the local aspect of Lampung [12]. It is hoped that after students understand Lampung culture they will appreciate Indonesia's cultural heritage more, which of course does not only exist in Lampung but exists in 37 provinces of Indonesia. This awareness cannot arise on its own, so there needs to be treatment given or efforts made so that the value of loving the motherland can be realized by loving local culture and preserving it Nurdiansyah et al. (2021).

## 4 Conclusion

The development of a digital encyclopedia of national identity based on local wisdom for students is very necessary and useful because it provides an overview and instills an attitude of cultural preservation and the values of Lampung's local wisdom. So as to be able to provide insight to students and readers to know the local wisdom of Lampung as a national identity which will indirectly strengthen the Indonesian heritage culture.

## References

1. Bonixe, L., & Dinis, G. (2022). Digital Media. In *Encyclopedia of Tourism Management and Marketing* (pp. 953-957). Edward Elgar Publishing.
2. Huda, W. Al. (2015). *Ensiklopedia Umum ( Nasional )*. Jurnal Adabiya, 5(85), 3–4.

3. Putra, A., Sumarmi, S., Sahrina, A., Fajrilia, A., Islam, M., & Yembuu, B. (2021). Effect of Mobile-Augmented Reality (MAR) in digital encyclopedia on the complex problem solving and attitudes of undergraduate student. *International Journal of Emerging Technologies in Learning (IJET)*, 16(7), 119-134.
4. Nurhayati, Yunisca, Sutrisno, D., Bercah, & Hidayat, R. (2022). Pengaplikasian pembelajaran E-learning Pendidikan Kewarganegaraan menggunakan V-class Universitas Lampung. *Jurnal Ilmiah Mimbar Demokrasi*, 22(1), 125-131.
5. Jones, S. (Ed.). (2002). *Encyclopedia of new media: An essential reference to communication and technology*. Sage Publications.
6. Tantriadi, Y. (2013). Pembuatan ensiklopedia interaktif tata surya untuk siswa SMP. *Caliptra: Jurnal Ilmiah Mahasiswa Universitas Surabaya*. 2:1-7
7. Aulia, I., Susanti, R., & Rusilowati, A. (2021). Development of Digital Encyclopedia Fish Diversity in The Auction of Tuban Fish As A Contextual Based Teaching Material Supplement. *Journal of Innovative Science Education*, 10(3), 319-324.
8. Jayanti, N., Widiyaningrum, P., & Setiati, N. (2019). The Digital Encyclopedia of Butterflies in Jatibarang Reservoir as The Supplement of Biodiversity Teaching Material in Senior High School. *Journal of Innovative Science Education*, 8(3), 264-270.
9. Sari, I. P., Permana, F. C., & Firmansyah, F. H. (2020, March). Design of Digital Interactive Encyclopedia "Palembang Songket Decoration" as Media Education Introduction Wastra Indonesia. In *2nd International Conference on Arts and Design Education (ICADE 2019)* (pp. 196-201). Atlantis Press.
10. Sulistiyawati, S., & Hediarti, R. (2016). Pengembangan Ensiklopedia Peralatan Laboratorium Biologi Sebagai Sumber Belajar IPA Biologi untuk Siswa Kelas VII SMP/MTs. In *Proceeding Biology Education Conference: Biology, Science, Environmental, and Learning* (Vol. 12, No. 1, pp. 77-84).
11. Ferastia, S. (2022). Pengembangan Ensibiolab "Ensiklopedia Alat Dan Bahan Laboratorium Biologi" Berbasis Mobile Learning Sebagai Sumber Belajar IPA-Biologi Untuk Siswa Kelas VII Di SMP/MTS Tualang (Doctoral dissertation, Universitas Islam Riau).
12. Pentzold, C., Weltevrede, E., Mauri, M., Laniado, D., Kaltenbrunner, A., & Borra, E. (2017). Digging Wikipedia: The online encyclopedia as a digital cultural heritage gateway and site. *Journal on Computing and Cultural Heritage (JOCCH)*, 10(1), 1-19.
13. Nurdiansyah, E., El Faisal, E., & Sulkipani, S. (2021). Pengembangan Ensiklopedia Identitas Nasional Berbasis Kearifan Lokal. *Jurnal Civic Hukum*, 6(2).

**Open Access** This chapter is licensed under the terms of the Creative Commons Attribution-NonCommercial 4.0 International License (<http://creativecommons.org/licenses/by-nc/4.0/>), which permits any noncommercial use, sharing, adaptation, distribution and reproduction in any medium or format, as long as you give appropriate credit to the original author(s) and the source, provide a link to the Creative Commons license and indicate if changes were made.

The images or other third party material in this chapter are included in the chapter's Creative Commons license, unless indicated otherwise in a credit line to the material. If material is not included in the chapter's Creative Commons license and your intended use is not permitted by statutory regulation or exceeds the permitted use, you will need to obtain permission directly from the copyright holder.

