

## Developing English Digital Book for IX Grade Students of Junior High School

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### ABSTRACT

*This research aims at developing a learning media based ICT called English Digital Book as supporting learning media for IX grade students of Junior High School. This English Digital book contains some materials and exercises which is appropriate to be learnt for junior high students. All materials in this learning media are based on syllabus of K13 curriculum. The research method used in this research is Research and Development. This development used ADDIE model which have five steps, those are; 1) Analysis, 2) Design, 3) Development, 4) Implementation, and 5) Evaluation. There are two expert validators in this research; those are material expert and media expert. The result of this research shows that from the media validation result got 95%, it was in "very good" category, whether from the material validation got 95% it was also in "very good" category. The students' responses of field trial result was also in "very good" category. By having those result, this English digital book as learning media is feasible to be used for IX grade students of junior high school. Furthermore this research can be used as reference to other researcher in developing English learning media in different level of students.*

**Keywords:** Learning Media; English Digital Book; Junior High School Students.

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### INTRODUCTION

Education becomes the first benchmark of a nation's progress. Therefore, currently the Government of Indonesia continues to pursue new breakthroughs in various ways, either through curriculum renewal, character education, collaboration with teacher rooms, learning innovations and many more. Especially in learning a language that requires an intensive learning process (Fitrillah et al, 2019).

In learning a foreign language, especially English it takes self-habituation to apply it in everyday life.(Sugiyono, 2014). Mastering International Languages is important at this time, especially English. English is a global language that is commonly used by various countries to communicate. English is an important international language that can connect humans with the world in all aspects, one of which is in the aspect of education. As it is known that English is an international language which is the most common language in the world (Rohanah et al, 2020). Therefore, when we master it, of course, it will be easier to adapt to anyone easily (Nur & Afidah, 2019). The importance of mastering a foreign language, especially English, as an introduction to success in one's academic field academic field and to support a career in the world of work (Megawati, 2016). In learning English, there are four aspects that students must learn, namely Reading Skills, Writing Skills, Listening Skills, and Speaking Skills. Furthermore, the school level, at senior high school, junior high school, and elementary school, the students learn English as a compulsory subject/material. (Baroroh & Afidah, 2018)

Reading is one of English skill that must be mastered in learning English as a foreign language. Reading is one of the most basic skills a person has, but it is a process where it takes a very complex understanding of the reading text to better understand the meaning and information. It can be said that reading is a process where the reader gets a message from the author in writing. In this case, reading can be said as an interactive process. Because when reading, the reader will guess, predict, check, and ask about the text (Utari, 2014).

According to Ruddell reading is an act of constructing meaning when transacting with texts. A reader does not try to derive meaning from the author, but rather to draw his own conclusions from prior knowledge and experience. English learning and teaching is becoming more difficult to do to achieve maximum results. Therefore, teachers should also make improvements in teaching methods. Such as the

procurement of media shopper, the use of digital books and other interactive media that can increase the interest in learning and facilitate students in understanding the material being studied because in this pandemic era, online learning refers more to the independence of students' learning. So innovation in the form of *e-books* or digital books is an excellent choice to help students learn the language optimally independently or in the classroom (Hidayah, 2019).

One of the media that is easy to develop and apply in English language learning for IX grade students in junior high school is digital books. IX grade students are the last grade of junior level before starting the next level/senior high. It is a class where students are faced with a more serious learning responsibility to go to the next level of education. It also be prepared to face the final exams such as national exams, madrasah exams and other exams.

Digital books also known as e-book is an electronic version of a printed book that can be read on a personal computer or other tool specifically designed for reading e-books (Danang, 2009). Simply put, a digital book is a digital book from a typical book. It can be used of the computer and *smartphone* as a tool to dynamically and succinctly display images, text, sound, graphics and videos. Some researches on digital books conducted by Kusjiono (2015) is known that the development of digital book media is considered worthy to be used as a learning medium by teachers and otherwise practically used by students. At very least, digital books have considerable appeal in the present. Of course, this will make it easier for students to learn English independently or in class with the teacher.

The development of digital book is expected to increase the independence of learning and the results of development must meet the feasibility of the aspects of content quality, language and material conformity. Paying attention to all explain above, the researchers initiate to develop a learning media that can be used by students independently not only at school but also at home or other places everywhere and anywhere by using *smartphone*. This research aims at developing a digital book that contains information and materials presented with text, images and audio. This digital book is produced for English language subjects that deserve to be used as a medium of learning both self-learning and in the classroom.

## **METHOD**

The subjects in this study were 10 students and the sample were 10 students of grade IX in MTs Nurul Qur'an. Therefore this research is classified into Research and Development. The researchers use the ADDIE design model to design this English digital book. The development model used is ADDIE. This model consists of five stages, namely: (1) analysis, (2) design, (3) development, (4) implementation, and (5) evaluation. Needs analysis was conducted by quisioner. This information collection is in the form of need analysis and analysis of learning material. The design stage is done to facilitate researchers in designing English digital book to be built. The design phase includes data collection criteria, flowcharts, and storyboards. The materials included in this product are about "Narrative Text, Recount Text, and passive Voice". Application development is the stage of realizing what has been made in the design stage in order to become a product (Gofur & Kustjiono, 2015). At the stage of making a digital book, researchers create an application that matches the design that has been created before. The process of creating the display of the material presented is the display of material designed with the most attractive look possible. The final result of this stage is a product to be tested after being assessed by experts.

The finished media is then assessed by material experts and learning resource experts before being tested to the user. This stage can be done if the results of the expert test have met the criteria well. This implementation was carried out to the IX grade students of MTs Nurul Qur'an Ploso by filling out a response questionnaire with the number of respondents 10 students. This evaluation stage is the final stage of the five stages of ADDIE model development. The result of the evaluation of digital book media is expected to be eligible for use for educators or students in English learning activities in IX grade students because it has been through several research procedures of gradual development.

## **RESULT AND DISCUSSION**

This stage provided the result of product development step by step. There were five points that will be discussed. There were the result of need analysis, result of design, result of development, result of implementation, and evaluation.

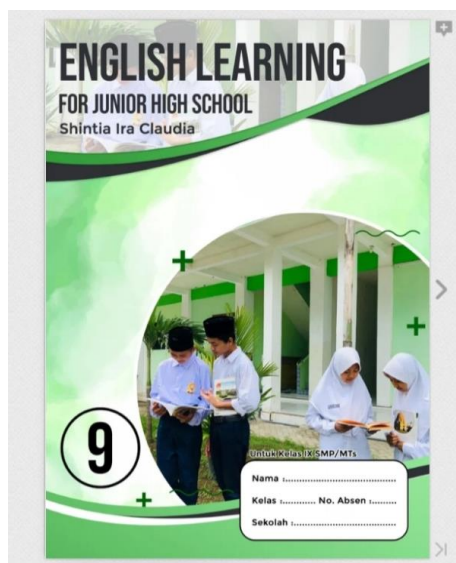
### **The Result of Need Analysis**

Before conducting the research, the researchers conducted a need analysis by distributing questionnaires that supported the research as a material for designing this media based on the data. Based

on the need analysis, the researchers decided to use qualitative data. In its realization, it was found that students there had difficulties in learning English independently using textbooks from school. Most of students are not interested in learning English; they feel bored and want another atmosphere in learning English maybe by using interesting media that can be used in their smartphone. After having those analysis result, then the researchers decided to design this English Digital Book.

### **Result of Design**

Based on gathered data discussing with the teacher, the researcher began to design a better display and media features, which then contained a cover, explanatory material and practice questions. The materials included in this English digital book are about "Narrative Text, Recount Text, and passive Voice". This product also be equipped by some examples and exercises. It all is in accordance to the syllabus of English material in K13 curriculum.



**Figure 1.** English Digital book cover

### **Result of Development**

#### **Expert of Material and Revision**

The expert validation stage consists of 2 validations, namely material validation and media validation. The first is material validation. The material expert is Ms. Intan Khoiruddin, S.Pd, she is an English teacher at MTs Nurul Qur'an Ploso. The material validation result as shown below:

**Table 1.** Result of Material Validation

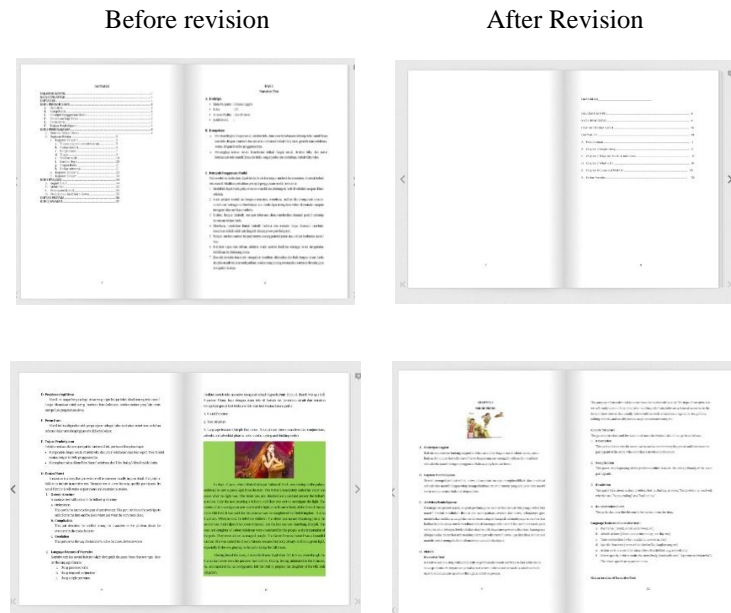
No	Material Validation Aspect	Score
1	Learning Design	23
2	Display	20
3	Theory	19
4	Content	14
<b>Total Score</b>		<b>76</b>

In calculating the result, the researcher processed it by Likert scale calculation as follow:

$$p = \frac{\text{score data collection}}{\text{ideal score}} \times 100 \%$$

Score Data Collection = 76  
Ideal Score = 5x16 (Item) = 80  
Percentage = 76/80x100% = 95 %

Based on the calculation of the material validation results obtained 95% which are included in the "very good" category. This meant that the delivery of material on this English Digital Book product was indeed feasible, but must add revisions in the form of additional materials.



**Figure 2.** English Digital Book Cover

**Expert of Media Validation and Revision**

The second validation is the validation of media expert conducted by Ms.Verawati, S.Kom as a Bachelor of Technology. The explanation below are the validation results:

**Table 3.** Result of Media Validation

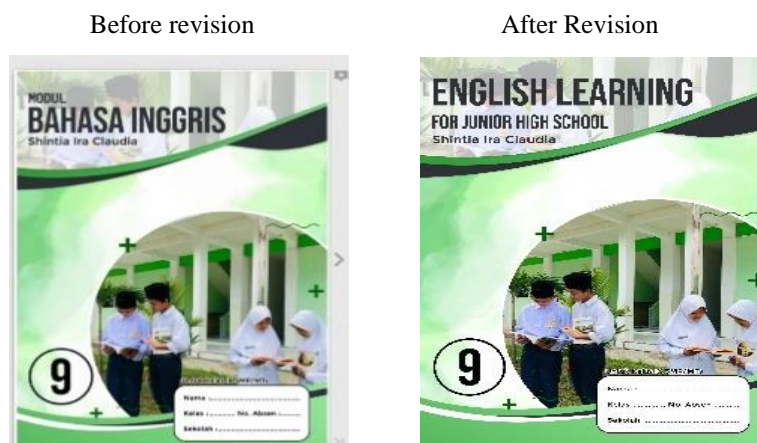
No	Media Validation Aspect	Score
1	Design	18
2	Display	20
3	Formation	19
<b>Total Score</b>		<b>57</b>

In calculating the result, the researcher processed it by Likert scale calculation as follow:

$$p = \frac{\text{score data collection}}{\text{ideal score}} \times 100 \%$$

Score Data Collection = 57  
 Ideal Score = 5x12 (Item) = 60  
 Percentage = 57/60x100% = 95 %

Based on the calculation of the media validation results obtained 95% which are included in the "very good" category. This means that the appearance and design of the Digital Book product deserves to be included in the product with revision notes, namely the cover title and the appearance of the contents of the book with several pictures and many pictures.





**Figure 4. Product Revision**

**Result of Implementation**

After conducting the development step of ADDIE, the researcher conducted the next step. It was result of implementation.

The results of the implementation are in the form of assessment of student work and suggestions for digital book media. Response questionnaires have been given to students with the following results:

**Table 4. The Result of Implementation**

Indicator	Score
1. This digital book is interesting and creative	49
2. This digital book is not boring	50
3. This digital book is easy to use	47
4. The choice of font, size and color used is simple and makes it easier for me to learn it	50
5. The material in the digital book is in accordance with core competencies, basic competencies, and indicators	50
6. The explanation of the material in the digital book is clear, so it's not boring	49
7. Interested in using this digital book as a learning media at school	50
8. This digital book contains practice questions that can test my understanding of 9th grade junior high school material	50
9. I feel motivated to learn when I use this digital book	46
10. I can learn English independently using this digital book	46
<b>Total</b>	<b>488</b>

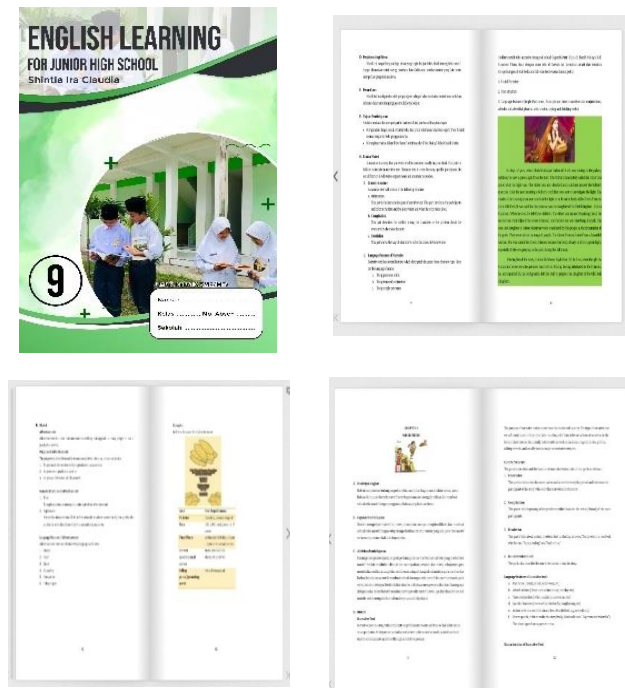
$$p = \frac{\text{score data collection}}{\text{ideal score}} \times 100 \%$$

Score Data Collection = 488  
 Ideal Score = 5x10 (Item) x 10 Student = 500  
 Percentage = 488/500x100% = 97,6 %

Based on the table above, it can conclude that the category of this media is “Very Good”. So, Digital Book is suitable to help the students grade 9 of MTs Nurul Qur’an Ploso, Jombang.

**Evaluation**

The advantages of using the Digital Book learning media as the purpose of this evaluation can be used as a reference for other researchers in the media or material in the future. Based on the results of the implementation phase, and after having results, the final product of the English Digital Book for IX grade students of junior high school is as follow:



**Figure 6.** Final Product of English Digital Book

## CONCLUSION

After going through research and development of the ADDIE steps, this English Digital Book can be applied to the students of grade IX junior high school. This digital book is a good book to support learning English, especially in assisting students to support independent learning in this pandemic era. Furthermore some suggestions for the next researchers, this research can be used as a reference in conducting different learning media to help students in mastering English.

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