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DESIGNING ELMED (ENGLISH LISTENED MENTALLY DISABLE) MEDIA FOR STUDENT SMALB MUHAMMADIYAH JOMBANG.

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Abstract

The aim of this research is to enhance the listening skills of mentally disabled student and assist them in learning English. The study focuses on designing and developing ICT based application media. This research was conducted on tenth grade students of SMALB Muhammadiyah Jombang. The researcher selected listening as the target skill and employed the Research & Development (R&D) method, specifically utilizing the ADDIE model (Analyze, Design, Development, Implementation and Evaluation). Data collection involved interviews and questionnaires, and data analysis techniques were employed to calculate scores using the Likert scale techniques. The material validation questionnaires obtained 92% rating in the "Very good" category. While the media validation obtained was 91 % rating same category "Very good". After implementation with student, the final result was 89% ,also falling under the "Very good" category. Based on these findings, it can be concluded that ELMED (English Listened Mentally Disable) can effectively assist mentally disabled students in improving their English listening skills.

Keyword: *Learning media, listening skills, Mentally Disable.*

Tujuan dari penelitian ini adalah untuk meningkatkan kemampuan mendengar siswa dengan keterbatasan mental dan membantu mereka dalam belajar bahasa Inggris. Penelitian ini berfokus pada perancangan dan pengembangan media aplikasi berbasis TIK. Penelitian ini dilakukan pada siswa kelas sepuluh SMALB Muhammadiyah Jombang. Peneliti memilih listening sebagai target keterampilan dan menggunakan metode Research & Development (R&D), khususnya menggunakan model ADDIE (Analisis, Desain, Pengembangan, Implementasi dan Evaluasi). Pengumpulan data dilakukan dengan wawancara dan kuesioner, dan teknik analisis data dilakukan dengan menghitung skor menggunakan teknik skala Likert. Kuesioner validasi materi memperoleh nilai 92% dengan kategori "Sangat baik". Sedangkan validasi media yang diperoleh adalah 91% dengan kategori yang sama yaitu "Sangat baik". Setelah diimplementasikan kepada siswa, hasil akhir yang diperoleh adalah 89%, juga termasuk dalam kategori "Sangat baik". Berdasarkan temuan ini, dapat disimpulkan bahwa ELMED (English Listened Mentally Disable) secara efektif dapat membantu siswa tuna grahita dalam meningkatkan kemampuan mendengarkan bahasa Inggris mereka.

Kata kunci: Learning media, listening skills, Mentally Disable.

Introduction

English is widely as global language in various countries, and served as an essential component of education. English is one of the core subjects with the basic communication. These skills in English included listening, reading, writing, and speaking. In the four skill One of skill that must be mastered by student is listening skills. Helgesen (2003:24) as cited in (Meutia et al., 2014) states listening is an active, and purposeful processing to understand what we hear. Listening is an attempt to listen to something to pay attention to spoken language (Mirsa Umiyati et al., 2022) as cited in (Bahtiar & Zunanik, 2022). In the learning English, listening effective communication to understand what spoken. (Sadiku, 2015) state Listening is a receptivity that enable understand what heard and give the listener full partnership in the communication process.

This research research in SMALB Muhammadiyah Jombang student mentally disable. Mentally disable is a child who has intelligence that is

significantly intellectual below normal knowledge. Desiningrum (2016:1) as cited in (Miftakhi, 2019) stated that children with special needs are children who need special treatments because of the developmental disorders and abnormality. Children in need of education are trained in general education classes by providing support services to themselves and their teachers (Eripek, 2000) as cited in (Ilkim et al., 2018).

One of main problem of students' mental disabilities is difficult to remember and learn about word. Typically learning mental disabilities observed in student are caused the various difficulties during information processing and such many students have problem what the issues like reading, reading and listening. For this reason, the researcher designs media ICT as a mean of support the English learning process. According to Kirschner and Weperies (2003) as cited in (Yusuf et al., 2013) Information and communication technology can make the school more efficient and productive, by organizing a variety of tools to enhance and facilitate teachers' professional activities.

The visual processing, auditory perception or memory is indicated as the origins of these problems under the studies conducted in this field. (Lopresti, Bodine and Lewis, 2008) as cited (Soykan & Özdamlı, 2017). Use audio visual tools and material during the learning and teaching process enrich the learning environment, materialize the things to be learn and make the knowledge be more permanent and logical for the students (Yanpar, 2008) as cited in (Soykan & Özdamlı, 2017). For this ELMED (English Listened Mentally Disable) application to supporting and help students feel comfortable in the process of learning English especially listening.

Research Methods

The model of this research uses Research and Development. Research and Development a basic research activity obtain information on user needs and method are research methods used to produce certain products, and test the effectiveness of these products. According to Sugiyono (2008) as cited in (Astra et al., 2015) Research and Development is a kind of research method employed to create and test products. This research the researcher designed ELMED learning media using ADDIE model (Analysis, Design, Development, Implementation and Evaluation).



Development of ELMED based on ADDIE model.

1. Analysis stage

During the analysis stage, the researcher interview with English subject teachers. The researcher prepares a set questions for the interviews, which are conducted to gather data from both teachers and students. The primary objective these interviews is to ascertain the needs of the students. In this study, the researcher involved 4 students with mental disable in tenth grade senior high school at SMALB Muhammadiyah. The analysis results indicate the necessity of acquiring learning methods that can aid individuals in comprehending the subject matter and enhancing their ability to retain information. from the data that has been collected, the researcher to develop a product namely ELMED (English Listened Mentally Disable).

2. Design Stage

This stage, the researchers design a product for learning media. The researcher designed media using Power point hyperlink, I spring and Web APK Builder.

3. Development Stage

The researcher develop media according to design. After the product developed, the researcher goes to four experts for validation. Then the researcher chose experts, namely material experts and media experts. First media experts the researcher chose Mr. Agus Sifaunajah, M.Kom and second media experts Mrs. Siti Sufaidah, S.Kom., M.Si. In validation several aspects are assessed by media expert on ELMED media.

In first material experts the researcher chose Mr. Achmad Fathul Iman, S.Pd. and second material experts Mr. Mohammad Suliyono, S.Pd. as a teacher from SLB Muhammadiyah Jombang. Aspects assessed in validation sheet. Media were analyzed by the researcher. The researcher used a Likert scale to

calculate the value of the questionnaire. The following Likert scale table and average score:

Scale	Quality
5	Very good
4	Good
3	Fair
2	Low
1	Very low

$P =$

$$\frac{\text{Score}}{\text{Maximum Score}} \times 100$$

4. Implementation Stage.

This stage, the researcher implement product has been developed in tenth grade senior high school at SMALB Muhammadiyah Jombang with 4 students. The product trial offline and after the product tested students respond, the researcher gives an easy questionnaire to the students. After that the researcher calculated the result of questionnaire to find out average score using Likert scale.

$$P = \frac{\text{Score}}{\text{Maximum Score}} \times 100$$

5. Evaluation

Evaluation done, the researcher see student are interested using media and evaluate in product improve the product.

Research Finding and Discussion

1. Result Analysis

The researcher conducted research in school. The researcher chose SMALB Muhammadiyah Jombang. Media into application can be dowloaded in adroid.

2. Result of Design

At the design stage, first step taken by the researcher is to create a flowchart. At this stage several applications. As for the application used to create ELMED are PowerPpoint, I spring Suite 10, and APK Builder. To make interesting the

researcher added hyperlinks and added animation, while I spring Suite 10 and then convert PowerPoint to HTML, and last is APK Builder.

3. Result of Development

In the development the researcher completed validation in media experts and material experts. The result of questionnaire analyzed using Likert scale and percentages to see feasibility the product. The criteria as follow:

Meaning Score	Score
Very good	81-100%
Good	61-80%
Fair	41-60%
Low	21-40%
Very low	0-20%

a. Validation from Media expert

According result by first media expert, Mr. Agus Sifaunajah, M.Kom, the calculated total score of observation= (10x5) + (8x4) + (0x3) + (0x2) + (0x1) = 82. The maximum score was= the maximum score on the Likert scale multiplied by the number of items, so that 5x18= 90.

The calculation of percentage the feasibility of media experts was as follows:

$$P = \frac{82}{90} \times 100\% = 91\%$$

So, the result from first media experts gets 91% which is included in the category very good the total score calculated using Likert scale to feasible to tested media ELMED on student Mentally disable at SMALB Muhammadiyah Jombang.

The result of second media expert, Mrs. Siti Sufaidah,S.Kom.,M.Si, the calculated total score of observation= (10x5) + (8x4) + (0x3) + (0x2) + (0x1)= 82.The maximum score was= the maximum score on the Likert scale multiplied by the number of items, so that 5x18= 90.

The calculation of percentage the feasibility of media experts was as follows:

$$P = \frac{82}{90} \times 100\% = 91\%$$

So, the result from second media experts gets 91% which is included in the category very good the total score calculated using Likert scale to feasible to tested media ELMED on students Mentally disable.

The conclusion of the first media validation was 91 scores, and the second validation was 91 scores. Those, the both of average media validation got 91, which was very good category. It means result media ELMED (English Listened Mentally Disable). Can be tested on students Mentally disable.

b. Validation from Material expert

First material experts, Mr. Achmad Fathul Iman, S.Pd. An English teacher at SLB Muhammadiyah Jombang. The calculated total score of observation = $(1 \times 5) + (14 \times 4) + (0 \times 3) + (0 \times 2) + (0 \times 1) = 61$. The maximum score was = the maximum score on the Likert scale multiplied by the number of items, so that $5 \times 15 = 75$.

The calculation of percentage the feasibility of material experts was as follows:

$$P = \frac{61}{75} \times 100\% = 81\%$$

Based on percentage above, from material experts get 81% included in category was very good the total score calculated using Likert scale to feasible material in ELMED can be tested student Mentally disable at SMALB Muhammadiyah.

Ssecond material experts, Mr. Mohammad Suliyono, S.Pd. An English teacher at SLB Muhammadiyah Jombang. The calculated total score of observation = $(9 \times 5) + (6 \times 4) + (0 \times 3) + (0 \times 2) + (0 \times 1) = 69$. The maximum score was = the maximum score on the Likert scale multiplied by the number of items, so that $5 \times 15 = 75$.

The calculation of percentage the feasibility of material experts was as follows:

$$P = \frac{69}{75} \times 100\% = 92\%$$

Based on percentage above, from material experts get 92% included in category was very good the total score calculated using Likert scale to feasible material in ELMED can be tested student Mentally disable at SMALB Muhammadiyah.

The conclusion of the first material validation was 81 scores, and the second validation was 92 scores. Those, the both of average material validation got 86,5 scores, which was very good category. It means result media ELMED (English Listened Mentally Disable). Can be tested on students Mentally disable at SMALB Muhammadiyah.

Result of Implementation

According to result implementation trial ELMED Application tested of tenth grade senior high school SMALB Muhammadiyah Jombang on May 30, 2023 . The researcher calculated data; the data calculation as follows:

The total score of observation = score of observation (the result of number items x likert scale) = 620. The maximum score was= number of questions.

$$P = \frac{620}{7} \times 100 \% = 89\%$$

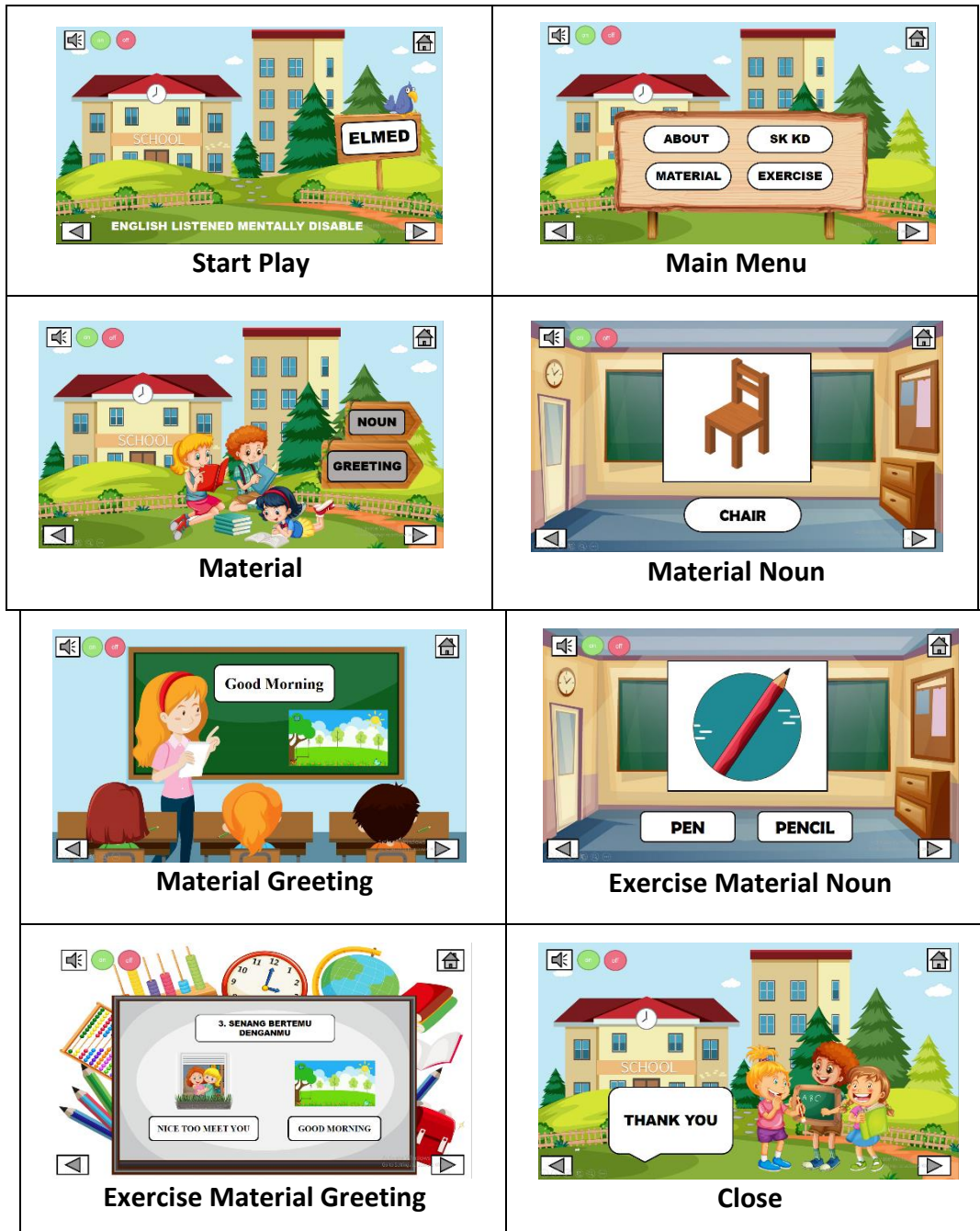
Based on percentage above.from implementation data, the percentage obtained 89%, which falls under the category of “Very good”. The researcher concluded that ELMED can effectively assist mentally disabled students and ELMED as learning media provide reference for future research.

Result of Evaluation

In the evaluation, the stage is last stage in the development of ELMED media in listening skill tenth grade senior high school at SMALB Muhammadiyah Jombang. The purpose of evaluation is to see feasible or not ELMED media to be used and can help student mentally disable after seeing the results of validation. Based on data obtain the researcher can conclude that ELMED media is suitable use as learning media in tenth grade senior high school at SMALB Muhammadiyah Jombang.

Final Product

The final product shows the result of the product after being revised. The image is shown as follows:



Conclusion

This research designed a product namely ELMED (English Listened Mentally Disable) for student tenth grade senior high school SMALB Muhammdiyah Jombang. This product design by using Power point hyperlink, I

spring and Web APK Builder. This research use research and development method with ADDIE models. The subject of research is student tenth grade senior high school. The product research has the advisability level can be concluded as follows: The result media of validation was 91 score. In materials validation was 86,5 score, and in implementation was 89 score. That means the product was deserved to be used and help for student mentally disable in SMALB Muhammadiyah Jombang especially listening skills.

References

- Astra, I. M., Nasbey, H., & Nugraha, A. (2015). Development of an android application in the form of a simulation lab as learning media for senior high school students. *Eurasia Journal of Mathematics, Science and Technology Education*, 11(5), 1081–1088.
<https://doi.org/10.12973/eurasia.2015.1376a>
- Bahtiar, Y., & Zunanik, R. (2022). DESIGNING INCARY LEARNING MEDIA IN LISTENING SKILL FOR. *Jurnal Ilmu Pendidikan Dan Humaniora*, 5(2), 36–48.
<https://jurnal.uniraya.ac.id/index.php/NDRUMI%0A3>.
- Ilkim, M., Tanır, H., & Özdemir, M. (2018). Socialization Effect of Physical Activity in Students Who Need Special Education. *Asian Journal of Education and Training*, 4(2), 128–131.
<https://doi.org/10.20448/journal.522.2018.42.128.131>
- Meutia, Z. F., Asib, A., & Rais, A. D. (2014). A Correlational Study Between Habit in Listening to English Songs, Vocabulary Mastery, and Listening Skill. *English Education: Jurnal Pendidikan Bahasa Inggris Universitas Sebelas Maret*, 2(3), 341–346.
<https://www.neliti.com/id/publications/60740/a-correlational-study-between-habit-in-listening-to-english-songs-vocabulary-mas>
- Miftakhi, D. R. (2019). *P-issn 2622-8831*. 2(1), 15–24.
- Sadiku, L. M. (2015). The Importance of Four Skills Reading, Speaking, Writing, Listening in a Lesson Hour. *European Journal of Language and Literature*, 1(1), 29.
<https://doi.org/10.26417/ejls.v1i1.p29-31>
- Soykan, E., & Özdamli, F. (2017). Evaluation of the android software for special needs children. *Eurasia Journal of Mathematics, Science and Technology Education*, 13(6), 2683–2699.
<https://doi.org/10.12973/EURASIA.2017.01247A>
- Yusuf, M., Oluwole, A., & Loto, A. (2013). Appraising the role of information communication technology (ICT) as a change agent for higher education in Nigeria. *International Journal of Current Research and Academic Review*, 1(4), 110–120.
<https://doi.org/10.5897/IJEAPS12.027>