

Developing Online Assessment Instrument by Using Proprofs Website for Assessing English Reading Competence

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ABSTRACT

This study is intended to develop assessment instrument by using Proprofs website for the evaluation of learning for first grade students of SMK Kreatif Hasbullah Jombang. This research uses Research and development (R&D) research methods and adapts ADDIE development model (Analysis, Design, Development, Implementation, and Evaluation). The results obtained from this development research are as follows: (1) The result of media validation is 4,1 (fair category), (2) The result of material validation is 4,5 (fair category). Based on the results, researcher concluded that Proprofs is deserved to be applied after going through a revision process to evaluate learning at SMK Kreatif Hasbullah, especially in evaluating the reading ability of English language learning.

Keywords: *Assessment instrument; ICT-based; Proprofs website; Reading skill.*

INTRODUCTION

Learning has changed from time to time, as well as teaching patterns and learning media. One of essential components of the teaching and learning environment has always been technology. It is a crucial component of the teaching profession that allows teachers to use it to help students learn. The term "integration" is used when discussing the use of technology in teaching and learning. Since technology permeates every aspect of our lives, it is important to reconsider the notion of incorporating it into the curriculum and work on incorporating it into instruction to enhance the learning process. (Ahmadi, 2018). Teachers need to use technology-based learning media because it is considered more efficient and can be accessed at any time without having to meet face to face because it has been transferred virtually as a form of utilizing digital-based media in the metaverse era.

Technology itself can be utilized in preparing material, constructing lesson plan, explaining the material, and assessing or evaluating students' ability. Nowadays several teachers are habituated in using technology when they evaluate students' skills that is commonly called as online assessment. Moreover, after pandemic session the use of online assessment in English classes is becoming increasingly popular. It may be observed in the utilization of a wider range of learning activities. According to Furwana et al., (2024) online assessment is a way of evaluation conducted online through internet platforms or applications, comprising various sorts of examinations, quizzes, assignments, or exercises to measure participants' knowledge, skills, or talents in a certain subject or area. While Musdalifah et al., (2022) stated that the online assessment is the use of digital devices to help in the creation, distribution, storage, and reporting of student assessment activities, responses, grades, or comments.

According to Mardiana et al., (2020) with the current level of technology, online assessments are quite feasible in the presence of internet network infrastructure. However, an unstable internet connection prevents students and professors from delivering or listening to the subject being taught. The difficulty extends to how professors judge their students' understanding of the material presented. Online assessments can be used to evaluate students' performance at the end of learning sessions. It can be completed at any time of day. If the internet connection is unstable, students may try again later. However, teachers need additional training to produce and develop online assessments.

Moreover, Fitriyah and Jannah (2021) also revealed that the effects of online assessment included increased assessment flexibility, greater awareness of preparing online language assessments, improved language assessment knowledge, increased student autonomy, the complexity of assessment administration, lower teacher-student engagement, and anxiety in English tests. Also, some benefits when we use online assessment are we get a direct feedback and scoring, practices, and effective time. It also minimalizes the use of paper and pencil or pen (Wibowo & Sari, 2021).

On need analysis phase researcher conducted interview with Mrs. Desta Fitri Herawati, S.Pd as an English teacher of SMK Kreatif Hasbullah. What is obtained is that the use of paper and pencil media for evaluation assessment can be a challenge for teachers because they have to correct each student's answers manually. However, there are various ICT-based assessment methods that can help the evaluation process. Therefore, researcher developed assessment instrument by using Proprofs website, on ICT-based assessment which has various advantages for evaluating student learning. Proprofs website makes learning evaluations more effective and efficient because it shortens time to prepare for evaluations (Pramudita et al., 2021). There was previous researcher that developed learning media for B1 listening practice using Proprofs platform for Faculty of Language and Arts, Medan State University (Aristia & Sari, 2024). From the explanation above, the researcher intends to develop online assessment by using Proprofs platform for SMK Kreatif Hasbullah Jombang.

METHOD

In this study the researcher uses Research and Development (R&D) as a research design. According to Borg and Gall (1983), the goal of research and development in education is to create educational products that are effective and can be used in educational programs. There were many models of R&D research especially which for product-oriented model as ADDIE, ASSURE, Kemp, Borgand Gall etc. Based on those models stated previously, the researcher adopted ADDIE model.

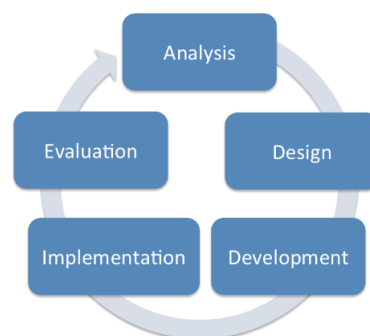


Figure 1 : ADDIE process

RESULT AND DISCUSSION

Result

The Results of Analysis

In this step the researcher collects the data by observing the location and interviewing the teacher of SMK Kreatif Hasbullah. The results of the interview with the teacher were as follows:

- Students' material are taken from Google which is basic from the *Kampung Inggris* and student worksheet books.
- For its evaluation they still use paper and pencil media. The teacher gives an explanation, where the students will also receive notes about the material the teacher provided
- The obstacles to evaluate using paper and pencil are enormous because the teacher will find it more difficult to correct students' answers one by one.

Based on the result of interview and observation above, the researcher concludes that the use of paper and pencil media for evaluation assessment can be a challenge for teachers because they have to correct each student's answers manually. However, the teacher needs assessment aid that has efficiency and does not need long time to correct it. Because of that reason, the researcher chooses Proprofs as the solution.

The Results of Design

In this step, the researcher is drafting question with Proprofs website. Some questions at this step are as follow:

Table 1. Narrative Text Assessment

Multiple Choice	<ol style="list-style-type: none"> 1. What did the wolf ask when he saw the goat grazing at the edge of a high cliff? 2. “Aren’t you cold up there in the wind? The word “there” refers to... 3. What can we from the story above? 4. From the story we know... 5. The generic structure of the text is... 6. What is the purpose of the narrative text? 7. What sentences are always used in the narrative text? 8. Why did mouse deer want to go across the river? 9. “.. But we are a large group, I can’t count it <u>precisely</u>”. The underlined word has closest meaning with? 10. After reading the text, we may conclude that the mousedeer was...
Essay	<ol style="list-style-type: none"> 11. Who was Mufasa? 12. Why did Simba leave the Pride Lands when he was young? 13. What did Simba do to Scar? 14. What was the ending of the story? 15. When did Simba go back to Pride Land?

Table 2. Procedure Text Assessment

Multiple Choice	<ol style="list-style-type: none"> 1. What is the text? 2. What does the beep signal you? 3. Which statement is true about the instruction? 4. When we add the egg in making perkedel tempe? 5. “Fry until golden brown on both sides, <u>drain</u> on absorbent.” The underlined word has the closest meaning to... 6. How many ingredients we should prepared based on text? 7. What should we not do to the milk? 8. Which statement is not true based on the text? 9. What is the generic structurem of the procedure text? 10. The language feature of the procedure text?
Essay	<ol style="list-style-type: none"> 11. Write the steps to make a simple sandwich! 12. Explain in detail the procedure for cooking fried rice! 13. How do you properly care for and clean a compter? Explain the steps! 14. Write the steps to assemble a bookshelf! Provide an explanation of how to replace the battery in a dead wristwatch!

Table 3. Recount Text Assessment

Multiple Choice	<ol style="list-style-type: none"> 1. The content above basically talks about... 2. The content is composed as an... 3. What is the purpose of the text? 4. What else the big temples in Prambanan? 5. When did they go home? 6. Why did they visit Brahmana and Syiwa sanctuaries? 7. What sentences are always used in the recount text? 8. What is the text about? 9. What was the horse cart’s rider like? 10. Why did Risa take a great respect to the horse cart’s rider?
Essay	<ol style="list-style-type: none"> 11. What time did they prepare and check their stuff to continue the journey? 12. What was the writer brought from Mount Fuji? 13. When did the writer go to Mount Fuji? 14. Where did the writer meet Yamato? 15. What is the meaning of Hatsu Hinode?

The Results of Development

The result of development of Proprofs website is based on the result of consultation with some experts and the revision from some experts. There are 4 experts. Two of them are media validator, and two of them are materials validator.

According to Aini et al. (2018) there is an average formula that can be used to calculate the result of the validation as follows. The formula to calculate the total score from each validator from each aspect with formula:

$$V = \frac{\sum x_i}{n}$$

The researcher uses the following formula to average each aspect of all experts:

$$x = \frac{V}{n}$$

So, based on the formula above the results of experts as follow:

Table 4: The Results of Media Validators

Media Expert		Material Expert	
The Result	Description	The Result	Description
The first validator : The score of aspects : 43 Number of aspects : 10 Sum : 4,3	The result of the first media validator is : 4,3	The first validator : The score of aspects : 70 Number of aspects : 16 Sum : 4,3	The result of the first material validator is : 4,3
The first validator : The score of aspects : 40 Number of aspects : 10 Sum : 4	The result of the second media validator is : 4	The first validator : The score of aspects : 77 Number of aspects : 16 Sum : 4,8	The result of the second material validator is : 4,8
Total average of all validator : 8,3 Number of validators: 2 Sum : 4,1	The interpreted of the result of Proprofs website was “Good” with “4,1” score validation.	Total average of all validator : 9,1 Number of validators: 2 Sum : 4,5	The interpreted of the result of Proprofs website was “Very Good” with “4,5” score validation.

based on the validation of the media and material expert. There were some revisions based on critics and suggestion of expert.



Figure 2. Before And After Revision Based on Media Validator

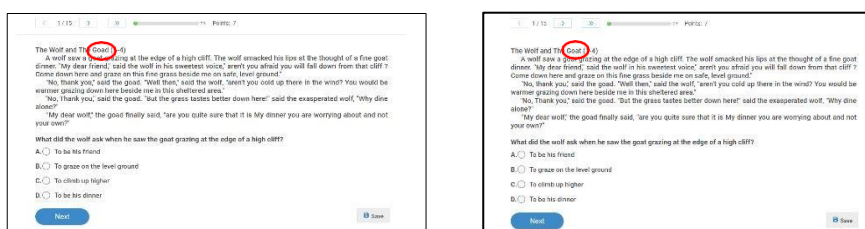


Figure 3 : Before And After Revision Based on Material Validator

The Results of Implementation

The result of assessment instruments using Proprofs website was “**Very Good**” with “**83%**” score questionnaire. The results of the analysis of question items using the proprofs website could be concluded as follows: 1) The result of validity test is valid, 2) The result of reliability test is 0.812 (very high), 3) The result of difficulty test is easy, and 4) The result of discriminating power is 2 questions are classified as good, 4 questions are classified as very good, and 4 questions are classified as low.

Based on the results, researcher concluded that Proprofs is deserved to be applied after going through a revision process to evaluate learning at SMK Kreatif Hasbullah, especially in evaluating the reading ability of English language learning.

The Results of Evaluation

The evaluation is based on the weakness of Proprofs application as follows:

- a. The maximum number of questions used was 15 because the researcher did not uses paid ones.
- b. Researcher used 10 students to conduct the trial because the researcher did not use paid ones.
- c. Researcher must make payments in US dollars if researcher wanted to update the product.
- d. This Proprofs product only had a trial period of 15 days.
- e. The appearance of the Proprofs product would change when the trial period had ended. Starting from the initial display that should be filled with names and emails will change to disappear, only showing the cover and start. The back button and went to another question will also disappear.
- f. If the trial period expires, the students cannot do optimally because the back button in the proprofs has disappeared.
- g. It's cannot be reused for a long period of time.

Discussion

Assessment instruments using Proprofs website are intended to assist teachers and students in carrying out ICT-based learning evaluations. This assessment instrument using Proprofs can also help students to assess English reading skills. According to (Brown, S.; Race, P. and Bull, 2006) as cited in (Mardiana et al., 2021), online assessment initially essentially shifted student assessment from paper assessment to screen assessment, as teaching and learning are constantly trying to adapt to technological advances bottom. Test objectives and test styles vary. Behavioral experts recommend that teachers conduct regular self- examinations and provide formative feedback. Cognitive experts, on the other hand, have developed graded questions to capture value beyond the learner's memory. The purpose is to test how high the learning out comes can be raised. There are some strengths of assessment instruments using Proprofs website as follows:

- a. There were many types of questions that could be used for learning evaluation.
- b. There was feedback on every question that had been resolved.
- c. In addition to reading skills, Proprofs could be used for writing skills.
- d. There was attractive cover so that students were interested and did not feel bored while worked on the questions.
- e. There was a certificate of evaluation results that attracted students to use Proprofs.
- f. This website gave students the desire to learn and do lesson questions especially English. The students felt happy because they did not need to carry pens and erasers everytime they would evaluate learning.

CONCLUSIONS

Researcher used the Proprofs website to facilitate assessment of student learning. Proprofs is a question creation website and a provider of information and communication technology-based questions for academic assessments. This ICT-based learning evaluation makes evaluation more effective and efficient.

The result of development Proprofs assessments instruments can be concluded as follows: 1) The result of media validation is 4,1 (good category), 2) The result of material validation is 4,5 (very good category). Based on the results, researcher concluded that Proprofs is deserved to be applied after going through a revision process to evaluate learning at SMK Kreatif Hasbullah, especially in evaluating the reading ability of English language learning.

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