



INNOVATIVE: Journal Of Social Science Research

Volume 5 Nomor 1 Tahun 2025 Page 1400-1414

E-ISSN 2807-4238 and P-ISSN 2807-4246

Website: <https://j-innovative.org/index.php/Innovative>

Developing Digital Worksheet Based on Project Based Learning Model to Enhance Writing Ability of Junior High School Student

Dessy Satria^{1✉}, Zulhiddah², Nur Aisyah Zulkifli³

Universitas Islam Negeri Sultan Syarif Kasim

Email: Dessy.satria@gmail.com^{1✉}

Abstrak

Penelitian ini mencoba mengintegrasikan lembar kerja siswa dan teknologi dalam bentuk rancangan digital worksheet berbasis projek base learning untuk meningkatkan kemampuan menulis siswa kelas 7. Penggunaan teknologi yang terintegrasi dengan lembar kerja merupakan perkembangan dalam dunia pendidikan yang tidak dapat dihindari sesuai dengan perkembangan zaman. Dengan menggunakan metode ADDIE penelitian ini merancang digital worksheet berbasis project base learning pada keahlian menulis siswa menggunakan platform canva. Dengan pendekatan kuantitatif dalam menentukan efektifitas dan practically dari sebuah digital worksheet. Dari perhitungan hasil menunjukkan bahwa dengan sampel 106 orang tabel r 5% adalah 0,632, artinya totalnya adalah $0,503 > 0,195$. Dan ditemukan bahwa jika tabel r 1% adalah 0,256, itu berarti $0,503 > 0,765$. Jadi, dapat disimpulkan bahwa lembar kerja digital yang digunakan efektif. Selain efektif, penerapan lembar kerja digital juga meningkatkan kemampuan menulis siswa. Kami yakin 95% bahwa skor pasca-tes lebih tinggi dari skor pretest, dengan perbedaan rata-rata antara 10.359 dan 13.509), Ini menunjukkan peningkatan hasil belajar secara keseluruhan.

Kata Kunci: *ADDIE, Digital Worksheet, Project-Base Learning, Writing Skill*

Abstract

This research tries to integrate student worksheets and technology in the form of a digital worksheet design based on a project-based learning to improve the writing ability of grade 7 students. The use of technology that is integrated with worksheets is a development in the world of education that is inevitable according to the times. Using the ADDIE method, this study designed a project-based learning-based digital worksheet on students' writing skills using the Canva platform. With a quantitative approach in determining the effectiveness and practicality of a digital worksheet. From the calculation of the results, it shows that with a sample of 106 people, the 5% r table is 0.632, meaning that the total is $0.503 > 0.195$. And it was found that if the 1% r table is 0.256, it means $0.503 > 0.765$. So, it can be concluded that the digital worksheets used are effective. In addition to being effective, the application of digital worksheets also improves students' writing skills. We are 95% confident that post-test scores are higher than pretest scores, with an average difference between 10,359 and 13,509, This indicates an improvement in overall learning outcomes.

Keywords: *ADDIE, Digital Worksheet, Project-Base Learning, Writing Skill*

INTRODUCTION

Building on the importance of integrating technology into education, the use of digital worksheets provides a unique opportunity to transform traditional teaching methods into more interactive and engaging experiences for students. As emphasized by Barry (2022) and Shrikant (2021), worksheets, when designed effectively, not only support the development of core academic skills but also promote positive student attitudes and increase motivation. This shift towards more engaging, hands-on learning activities allows students to take greater ownership of their educational journey, which is especially crucial in fostering lifelong learning skills.

Additionally, the research conducted by Lupi et al. (2021) reinforces the idea that digital worksheets can significantly stimulate students' creativity and collaborative skills, particularly in science education. This is particularly beneficial for project-based learning (PBL), where students are tasked with completing real-world projects. As students work together and apply their learning to practical problems, they develop not only academic competencies but also social and communication skills that are vital in today's interconnected world.

One of the significant advantages of digital worksheets is their ability to be adapted to various learning styles. For instance, multimedia elements such as videos, animations, and interactive tasks can cater to visual, auditory, and kinesthetic learners, making the learning experience more inclusive. Ismathulhuda et al. (2022) found that such adaptations improve the practicality of e-worksheets, as they allow for differentiation in teaching. By

accommodating diverse learning needs, these worksheets contribute to a more equitable learning environment where all students can succeed.

Furthermore, digital worksheets, as part of project-based learning, encourage critical thinking and problem-solving. As students navigate through complex tasks and projects, they engage in higher-order thinking that goes beyond rote memorization. This shift towards more complex, analytical tasks aligns with educational theories that emphasize the development of cognitive skills alongside the acquisition of content knowledge. According to Lee (2014a), worksheets should not just assess students' knowledge but also challenge them to think critically and apply what they have learned in meaningful ways. When combined with technology, worksheets can become powerful tools that enhance not only cognitive abilities but also emotional and social intelligence.

The potential for digital worksheets to enhance students' writing skills, as explored in this research, is part of a broader effort to support the development of 21st-century skills such as creativity, communication, and collaboration. As students engage with project-based tasks, they also have the opportunity to refine their writing through iterative processes that encourage reflection, revision, and self-expression. This process not only improves writing ability but also nurtures essential skills that will be valuable in both academic and professional settings.

In conclusion, the integration of technology into worksheets, particularly through the use of project-based learning strategies, represents a significant advancement in educational practices. Digital worksheets have the potential to revolutionize the learning experience by making it more engaging, interactive, and effective in developing students' academic and life skills. As the findings from various studies, including those by Sari et al. (2021), Widiyawati et al. (2020), and Ismathulhuda et al. (2022), suggest, when carefully designed and validated, digital worksheets can be powerful tools for enhancing students' learning outcomes, increasing motivation, and promoting lifelong learning skills. Therefore, it is crucial that educators continue to explore and implement these digital tools to create dynamic and enriching learning environments for students.

RESEARCH METHOD

Research on developing digital worksheet projects using the R & D research model. Research and development are a type of this research. R&D is a collection of creative activities carried out by businesses or governments to create new services or products or to enhance already existing ones. (Kvilhaug, 2023; James, 2019) In this study, the research

procedure uses the ADDIE model. Before starting the ADDIE model stage, data collection was carried out twice. Next, to create the worksheet, the ADDIE model was used, which consists of five steps, including (1) Analysis, (2) Design, (3) Development, (4) Implementation, and (5) Evaluation. These five stages can be seen in the image below.

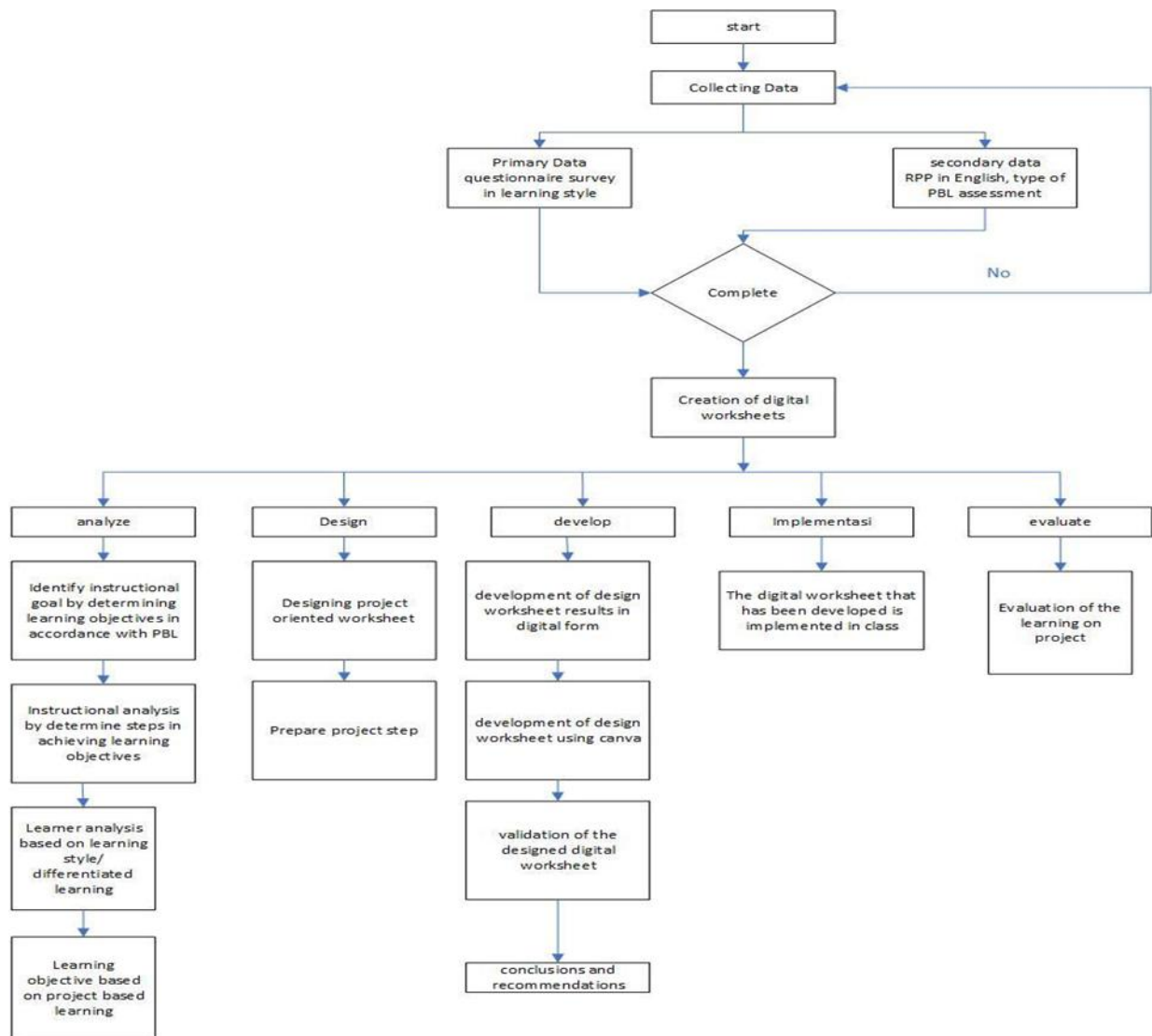


Figure 1. Flowchart of Product Development Procedure

- 1 Analysis The analysis process has four sub steps such as: Instructional goals, instructional analysis, learner analysis and learning objective (Gardner, 2012). Instructional goal. The instructional goal will identify the teaching and learning objective. Analysis learning achievement (CP) in phase D have been carried out in developing project based digital worksheets. Instructional Analysis. The instructional analysis will determine the steps in achieving the learning objective. Some of the instructional analysis in developing project based digital worksheets such as: CP

(learning achievement) and ATP (flow of learning objectives) that use a project based learning methodology.

- 2 Design Based on the analysis of differentiated learning, the form of the worksheet to be designed by considering project-oriented worksheets, providing structured instructions, asking questions for critical thinking, preparing project steps, providing space for creativity, and linking to curriculum content
- 3 Development, Some stages have been done by the researcher to get good results of the product such as: Designing the layout and worksheet in canva. To develop a project based digital worksheet in canva, the teacher needs to login to canva application by using email
- 4 Implementation The implementation phase has been done by giving a digital worksheet to the Seven grade students. Here the teacher has been monitoring the practicality of using worksheets, then give feedback to the students and the last evaluate the learning program.
- 5 Evaluation At the evaluation stage the teacher will provide a worksheet on the summative test because it uses the project-based learning method. The results of the design that has been implemented have been evaluated by looking at the achievement of the learning outcomes that have been designed previously. then proceed with improvements to the worksheet that has been implemented.

RESULT AND DISCUSSION

Media needed by student and teacher in Writing skill

a. Student Needs

To effectively develop digital worksheets aimed at enhancing writing skills, it is crucial to conduct a thorough needs analysis among students. Many students struggle with writing due to issues such as lack of vocabulary, difficulty in organizing ideas, and uncertainty about how to start their writing tasks. Understanding these challenges can inform the design of the worksheets. Conducting surveys using instruments for student needs has been provided valuable insights into their preferences and difficulties. For instance, students may express a need for more interactive and engaging materials that incorporate technology.

Analyzing how writing skills are currently taught in the classroom can highlight gaps in existing resources. For example, if traditional worksheets are predominantly used, transitioning to digital formats could enhance engagement and learning outcomes. Utilizing digital tools like problem-based worksheets can facilitate better organization of thoughts

and improve overall writing quality. Research indicates that these methods can significantly boost student interest and performance in writing tasks. Here the result of the student's needs.

Table 1. Students Need Analysis Result

No	Statement	Percentage	Response
1	Teachers teach English writing well in class	72%	Teachers effectively teach English writing in the classroom
2	Teachers use media to teach English in the classroom	60%	Teachers use of media in English teaching
3	Teachers use digital worksheets when teaching	57%	Digital worksheets not common use in teaching
4	Students feel happy when learning to write English	71%	Students feeling happy while learning to write English
5	Based on your opinion, do students react happily to the writing learning process?	60%	Students react positively to the writing learning process
6	Students enjoy group learning	85%	Students enjoy group learning
7	Students have difficulty in writing English	72%	Students face difficulties in writing English
8	Students ever work on project-based assignments from teachers	70%	Students have experienced project-based assignments
9	Students have ever studied online	90%	Students have prior experience with online learning
10	Students ever used a digital worksheet in learning writing English	50%	A half of total students never use a digital worksheet in learning writing English

Based on the table about student need digital worksheets, it was found that digital worksheets were needed by students to enhance writing ability. Students were studied online. It means learning digitally has been familiar.

The result of the need analysis of students:

1. Teachers teach English writing well in class. The data showed that 72% show that Teachers effectively taught English writing in the classroom.
2. Teachers use media to teach English in the classroom. The data showed that 60 %

teachers used media to teach English in the classroom.

3. Teachers use digital worksheets when teaching. The data showed that 57 % of teachers use digital worksheets when teaching. It means digital worksheets not common use in teaching.
4. Students feel happy when learning to write English. He data showed that 71 % Students feel happy when learning to write English. It means Students feeling happy while learning to write English.
5. Based on your opinion, do students react happily to the writing learning process. The data showed that 60 % of students react happily to the writing learning process. It means Students react positively to the writing learning process
6. Students enjoy group learning. The data showed that 85 % of students enjoy group learning. It means Students enjoy group learning.
7. Students have difficulty in writing English. The data showed that 72 % students have difficulty in writing English. It means Students face difficulties in writing English.
8. Students ever work on project-based assignments from teachers. The data showed that 70 % of students work on project-based assignments from teachers . It means Students have experienced project-based assignments.
9. Students have ever studied online. The data showed that 90 % Students have ever studied online. It means Students have prior experience with online learning.
10. Students ever used a digital worksheet in learning writing English. The data showed that 50 % Students ever used a digital worksheet in learning writing English. It means A half of total students never use a digital worksheet in learning writing English.

Based on data above can concluded that students generally have positive attitude towards learning English writing, although the students face challenges. On another sides found teachers were not use common use Digital worksheets in teaching.

Designing a Project-based Digital Worksheet To Enhance Writing Ability

The development of digital worksheets can follow the ADDIE model (Analysis, Design, Development, Implementation, and Evaluation):

- a) Analysis: Identifying student needs and learning objectives.
- b) Design worksheets with elements that support active learning, such as open-ended questions and creative tasks.
- c) These research Using platforms Canva to create interactive worksheets
- d) Applying worksheets online or face-to-face learning and observing student responses.

- e) Evaluation needs to Collect feedback from students and teachers to assess the effectiveness of the worksheet

The use of digital worksheets has significantly improved students' writing skills, with good progress shown in average scores. Additionally, students are more motivated and engaged when using modern learning tools. However, some students face technology limitations, such as lack of device or internet access, which could be addressed by providing printed materials. Overall, project-based digital worksheets enhance writing skills and make the learning process more interactive and engaging.

1. The Validity of a Project-based Digital Worksheet from The Expert

The digital worksheets developed require expert validation to assess their feasibility. Three lecturers were involved in validating the research instruments, digital worksheets, and lesson plans. The worksheets were considered valid if they met the eligibility criteria ($5 < TN \leq 10$). The validation results showed that the first lecturer deemed the worksheet suitable with minor revisions ($15 < TN \leq 20$), while the second lecturer recommended moderate revisions ($10 > TN \leq 15$). In conclusion, the digital worksheet is usable but requires some improvements.

2. The Practicality of Using a Project-based Digital Worksheet To Enhance Writing Ability

Research shows that project-based digital worksheets are effective in improving writing skills by enhancing student creativity, motivation, and engagement in the learning process. The e-worksheet-based project received a practicality score above 89%, indicating ease of use for both students and teachers. Positive feedback from users boosts students' confidence in writing. While the digital worksheets are proven to be practical and effective, challenges such as access to technology and teacher readiness need to be addressed to maximize benefits. Validation and significant test results confirm the suitability and effectiveness of the digital worksheets.

- a. Ease of Use

A high coefficient correlation indicates that users find digital worksheets easy to access, navigate, and use in completing assignments.

- b. Relevance to the Material

Digital worksheets that have been designed can present learning material in an interesting and interactive manner, making it easier for students to understand difficult concepts.

- c. Flexibility

Digital worksheets can be adapted to individual or group learning needs and can be integrated with various other learning resources.

d. Efficiency

Using digital worksheets can save time and resources, both for teachers and students.

CONCLUSION

Digital worksheets have shown great potential for enhancing the quality of education, especially in improving students' writing skills. However, their successful implementation depends on various factors, including a well-thought-out design, support from educational institutions, and the readiness of both teachers and students to embrace this tool. This study focused on designing a project-based digital worksheet aimed at enhancing students' writing abilities, while also evaluating the worksheet's validity, practicality, and effectiveness.

The study revealed the following key findings:

1. The digital worksheet was designed based on a comprehensive needs analysis of teachers and students. The results showed a significant improvement in students' writing abilities, as evidenced by the posttest scores being notably higher than the pretest scores. The 95% confidence interval for the difference in scores ranged from 10.359 to 13.509, indicating a clear positive impact on students' overall learning outcomes.
2. The validity of the digital worksheet was confirmed through expert validation, with the worksheet receiving a score of 17, indicating that it was suitable for use with minor revisions. The content aligned well with educational standards and learning objectives, ensuring that the activities and assessments were relevant and effective for skill development.
3. The project-based design of the worksheet, which incorporated multimedia elements such as videos, images, and interactive tasks, proved highly engaging for students. The design facilitated active participation and motivation, leading to positive responses from students. The statistical calculations showed that the effectiveness of the worksheet was significant, with a correlation value of 0.503, exceeding the required threshold for effectiveness.
4. Students using the project-based digital worksheet showed a marked increase in motivation and engagement in the writing process. Compared to traditional

methods, project-based learning was found to be more effective in enhancing writing skills, fostering a deeper connection to the material and improving overall performance.

Overall, this research highlights the effectiveness of digital worksheets in improving writing skills, contributing to existing learning theories, and providing valuable insights for developing more interactive and engaging teaching materials. It also underscores the importance of integrating technology in education to create more dynamic and student-centered learning experiences.

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