PKM Training on Creating Digital Book Media Based on the Heyzine Platform for Muhammadiyah Elementary School Teachers

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Sections Info	ABSTRACT
	*Objective: This study aims to enhance the capabilities of elementary school teachers in creating innovative and interactive learning through a digital media training program using the Heyzine platform. Heyzine facilitates the creation of e-magazines and interactive media, addressing the growing demand for technological mastery in education. **Method:** The training involved demonstrations, hands-on practice, and group discussions to optimize participants' understanding. These methods were structured to accommodate varying levels of technological proficiency among teachers. **Results:** The training successfully enabled teachers to produce innovative learning materials, including thematic e-magazines, interactive videos, and digital quizzes. These materials significantly improved student engagement in learning. Additionally, participants reported increased technological competence and confidence in integrating digital media into their teaching practices. **Novelty:** This initiative highlights the practical application of Heyzine as a digital tool for education, bridging the gap between traditional teaching methods and modern technological demands. The study also identifies challenges, such as varying technology skills and limited access to devices, proposing sustainable solutions like follow-up training and continuous mentoring. The findings contribute to the discourse on achieving quality education aligned with national educational goals in the digital age.*

INTRODUCTION

In the current digital era, the world of education is undergoing significant changes driven by the development of information technology. The use of digital-based learning media has become one of the important elements in supporting an effective and innovative teaching and learning process [1]. Digital learning media not only facilitate access to information but also enhance the appeal of learning materials, making them easier for students to understand. One form of digital learning media that is becoming increasingly popular is digital books.

Digital books or e-books are a form of presenting learning materials that can be accessed through electronic devices such as computers, tablets, or smartphones [2]. Digital books offer flexibility in content presentation, including the addition of multimedia elements such as videos, animations, and audio that printed books do not have. In the context of primary education, digital books can be a solution to support interactive, engaging, and relevant learning for 21st-century students. As stated by Mayer, the integration of multimedia elements in learning can enhance the effectiveness of student comprehension through a richer cognitive approach [3], [4].

Teachers, as the frontline of education, play a strategic role in implementing digital learning media. Therefore, teachers' competence in mastering technology and producing

digital-based learning media has become an urgent necessity. One of the platforms that teachers can use to create digital books is Heyzine. This platform allows users to transform static documents into interactive digital books with features such as flip pages, interactive links, and multimedia element integration [5].

Digital-based learning media has several advantages compared to conventional learning media. First, digital media can be accessed anytime and anywhere, allowing students to learn independently at their own pace. Second, digital media can accommodate various learning styles of students, whether visual, auditory, or kinesthetic, by presenting diverse content. Third, digital media can enrich the learning experience through the use of engaging and interactive technology.

In the context of elementary school education, the use of digital media is highly relevant to support exploratory and creative learning [6]. Students at this age tend to have a high level of curiosity and are more interested in learning materials presented visually and interactively. Therefore, Heyzine-based digital books can be an effective tool to motivate students and increase their engagement in the learning process [7].

According to research conducted by Hwang and Wu, the use of digital media in learning can significantly improve student learning outcomes [8]. Digital media not only helps students understand concepts better, but also encourages the development of 21st-century skills such as problem-solving, collaboration, and digital literacy. This is in line with the demands of the education curriculum, which increasingly emphasizes the holistic development of student competencies. Although it has great potential, the implementation of digital learning media in elementary schools still faces various challenges. One of the main challenges is the limited competence of teachers in mastering technology and optimally utilizing digital media. Many teachers feel less confident in using digital platforms due to the lack of training and support.

To address these constraints, a structured and sustainable training program is needed to enhance teachers' competencies in producing digital-based learning media [9], [10], [11]. Training in creating digital books based on Heyzine is one of the strategic steps that can be taken. Through this training, teachers are not only trained to operate the Heyzine platform but also taught the principles of effective learning design and how to integrate multimedia elements into digital books [12], [13].

This training is expected to enhance teachers' abilities to produce digital books that are relevant to the learning needs in elementary schools. Additionally, this training also provides an opportunity for teachers to share experiences and best practices in utilizing digital media in the classroom. Thus, this training not only enhances the individual competencies of teachers but also encourages collaboration and innovation within the education community.

RESEARCH METHOD

The method in the PKM Training Activity for Creating Digital Book Media Based on the Heyzine Platform for Elementary School Teachers is designed to provide

understanding and practical skills to elementary school teachers in utilizing the Heyzine platform to create engaging and interactive digital book media. The training method applied involves a hands-on approach, group discussions, and individual guidance.

1. **Introduction Stage**

At this stage, participants are introduced to the basic concepts of digital books and their benefits in elementary school learning. The speaker explained the main features of Heyzine and provided examples of digital books that have been used in learning [14]. This session is conducted as an interactive lecture using presentation media to provide a comprehensive overview.

2. **Direct Practice Workshop**

The core training session is a workshop that integrates theory with hands-on practice. Participants are asked to bring their teaching materials, which will be transformed into digital books. The trainer provides step-by-step guidance in creating digital books, starting from uploading PDF files, adding interactive elements such as videos, audio, and links, to the publication and distribution of the digital books to students.

3. **Discussion and Problem Solving**

At this stage, participants are encouraged to discuss the challenges or obstacles faced when using Heyzine. Discussion groups are formed to share experiences and solutions. The speaker provides tips and tricks to optimize the use of Heyzine according to learning needs [15], [16].

4. **Guidance and Evaluation**

To ensure that each participant can master the skills being taught, individual coaching sessions are conducted. Participants can request direct assistance from the trainer to complete their digital book projects. Evaluation is conducted at the end of the session, either through the assessment of the produced digital book or through participants' reflections on the training process.

5. **Follow-up and Monitoring**

After the training, participants are asked to implement the digital book that has been created into the classroom learning process [17]. The trainer will conduct online monitoring to evaluate the implementation of the training results and provide improvement suggestions if necessary.

This method is designed so that participants not only understand theoretically but also have a tangible product that can be directly applied in learning. This approach is expected to enhance teachers' competencies in utilizing technology for more interactive and effective learning.

RESULTS AND DISCUSSION

The Importance of Elementary School Teachers Implementing Learning with Heyzine Media to Enhance Student Literacy in the Classroom, Technological advancements have brought significant changes to the world of education. One of the

impacts is the availability of various digital media that can be used to improve the quality of learning. Among various platforms, Heyzine is one of the innovative media that offers features to create interactive e-books. Heyzine not only makes it easier for teachers to prepare teaching materials but also provides a more engaging learning experience for students. In the context of primary education, the application of Heyzine media is highly relevant for improving students' literacy in the classroom. This article discusses the importance of elementary school teachers experimenting with learning using the Heyzine media to enhance student literacy, supported by theory and references.

A. Training on creating the Heyzine Platform by teachers of SD Muhammadiyah 2 Krian

Heyzine is a digital platform that allows its users to create interactive e-books or flipbooks. This media offers various features such as page animations, interactive links, and the ability to embed videos or audio. These features make the learning content more lively and engaging for students.

According to Johnson et al., interactive media such as Heyzine can enhance students' reading interest and comprehension [4]. In addition, this platform is easily accessible through various devices such as computers, tablets, or smartphones, making it suitable for use in technology-based learning in elementary school classrooms.

B. Results of the Hayzine platform media training activities

a) Results Experienced by Elementary School Teachers Participating in the Digital Book Media Creation Workshop Based on the Heyzine Platform

Workshop "Training on Creating Digital Book Media Based on the Heyzine Platform for SD Muhammadiyah 2 Krian Teachers" has had a significant positive impact on the participants, especially the elementary school teachers involved. As a result of this training, the teachers now have new skills that are relevant to the needs of 21st-century education. Here is a detailed description of the results felt by the participants:

1. **Improvement of Technology Competence**

    This training provides understanding and practical skills to the teachers of SD Muhammadiyah 2 Krian in using the Heyzine platform to create interactive and engaging digital books. Teachers who were previously less familiar with digital technology now feel more confident in utilizing technology in the learning process. They are able to integrate features such as flipbooks, animations, and multimedia into digital books, making the lesson materials more lively and capturing students' attention.

2. **Ability to Create Creative Learning Media**

    The training participants, the teachers of SD Muhammadiyah 2 Krian, are able to produce learning media that are not only informative but also creative and innovative. The digital books they created are able to present lesson materials in an engaging way, making it easier for students to understand the concepts being taught. For example, a math teacher can create an interactive digital book with practice questions accompanied by automatic

answers, while an Indonesian language teacher can present illustrated stories with engaging animations.

3. **Efficiency in Material Delivery**

The results of this training are also felt in the efficiency of material delivery by the teachers of SD Muhammadiyah 2 Krian. Digital books allow teachers to organize and deliver information in a structured and interactive manner, reducing reliance on printed books or other conventional media. With one click, materials can be accessed by students, both in the classroom and at home, thus supporting distance learning (PJJ) if needed.

4. **Increasing Teacher Motivation and Enthusiasm**

The teachers at SD Muhammadiyah 2 Krian, who previously struggled to create modern learning media, now feel more motivated. Their success in producing the first digital book through the Heyzine platform has given them a sense of confidence and satisfaction. This enthusiasm drives them to continue experimenting with various Heyzine features and to create new, more innovative media.

5. **Positive Influence on Students' Learning Process**

The teachers at SD Muhammadiyah 2 Krian also felt a positive impact on the students after using digital book media in their teaching. Student interaction with learning materials becomes more active, and their interest in studying increases. Digital books equipped with visual and interactive elements can capture students' attention longer than conventional media, making learning more effective.

6. **Opportunity to Share Knowledge**

This training also opens up opportunities for teachers to share knowledge and experiences with their colleagues. Many teachers are proud of their work and have taken the initiative to hold similar training sessions at their respective schools. This creates a ripple effect in the development of teachers' competencies in the field of educational technology.

7. **Preparation for Challenges in the Digital Era**

Through this training, the teachers of SD Muhammadiyah 2 Krian are now better prepared to face the challenges of education in the digital era. They not only learned to use the Heyzine platform but also gained insights into the importance of technology adaptation in the world of education. This ability makes them more relevant and competitive as professional educators in the future.

Overall, the results felt by the teachers of SD Muhammadiyah 2 Krian who participated in this workshop were very positive. They are now able to create modern learning media that is relevant to the needs of students in the digital era, improve the quality of learning, and motivate themselves to continue developing. This training has become a significant first step in

enhancing the competencies of elementary school teachers in the field of educational technology.

b) **Benefits of Using Heyzine in Literacy Learning**

1. **Increasing Students' Reading Interest**

    Heyzine provides a reading experience that is different from traditional printed books. With engaging animations, colors, and interactivity, students are more motivated to read. Research by Smith & Anderson shows that interactive media can increase student engagement in learning by up to 40% [12].

2. **Improving Material Understanding**

    With interactive features, such as additional videos or audio, students can better understand the material. For example, teachers can insert explanatory videos or narration audio that helps students with an auditory learning style.

3. **Supporting Inclusive Learning**

    Heyzine allows teachers to create materials that are friendly for students with special needs. For example, the text can be adjusted in size for students with mild visual impairments, or audio narration for students with reading difficulties.

4. **Enriching Reading Materials**

    Teachers can create teaching materials that are appropriate to the local context and the needs of the students. This allows students to access more relevant and engaging reading materials, while also broadening their horizons.

c) **Steps to Implement Heyzine in Elementary School Classes**

1. **Preparation of Materials** Teachers need to prepare learning content that aligns with the curriculum. Make sure the material prepared is relevant, engaging, and supports the achievement of students' basic competencies.

2. **Creating an E-Book on Heyzine** With an easy-to-use interface, teachers can upload PDF teaching materials to Heyzine and add interactive elements such as links, videos, or audio.

3. **Implementation in the Classroom** Use the e-book that has been created as teaching material in class. The teacher can project the e-book onto the screen or provide direct access to students through their devices.

4. **Evaluation and Revision** After use, evaluate the effectiveness of the teaching materials by observing student engagement and understanding. Revise if necessary to improve the quality of the e-book.

d) **Practice by teachers in the Application of Heyzine in Elementary School Classes by model teachers during the workshop training**

A model teacher at SD Muhammadiyah 2 Krian is trying to use Heyzine to teach material about ecosystems. The teacher created an interactive e-book with images, videos,

and simple quizzes in it. As a result, the students were more enthusiastic about attending the lessons, and 80% of them successfully answered the quiz correctly. The teacher also reported that students were more active in asking questions and discussing during the lesson.

Figure 1. Media training for the Hayzine platform at SD Muhammadiyah 2 Krian.

e) **Obstacles and Solutions**

1. **Technological Limitations** Not all schools have adequate technological facilities. The solution is to utilize the available devices or use Heyzine in small group sessions.
2. **Teacher Skills** Not all teachers are accustomed to using technology. Training and mentoring are needed to improve teachers' skills in using Heyzine.
3. **Internet Access** The limitation of internet access can be overcome by downloading e-books for offline use.

The application of Heyzine media in elementary school learning can be one of the effective solutions to improve student literacy. With its interactive features, Heyzine is able to attract students' reading interest, enhance their understanding, and support inclusive learning. Although there are some obstacles, the right solution can help teachers overcome those challenges. Therefore, elementary school teachers need to try and develop creativity in using Heyzine to support classroom learning [15].

CONCLUSION

Fundamental Finding : The shift to digital education necessitates teachers to continually enhance their skills, particularly in leveraging technology for more engaging

and effective learning experiences. Heyzine-based digital books serve as a practical tool to support this transformation. **Implication :** Structured training enables teachers to create digital books tailored to students' needs and curriculum demands, positioning educators as drivers of educational innovation and improving national education outcomes. **Limitation :** The study acknowledges that the successful adoption of Heyzine digital books depends on the availability of resources, teacher commitment, and adequate training infrastructure. **Future Research :** Further research should explore long-term impacts of digital book utilization on student outcomes and strategies to integrate similar tools across diverse educational settings.

REFERENCES

[1]   A. Arsyad, *Media Pembelajaran*. Jakarta: Rajawali Pers, 2019.

[2]   Y. Miarso, *Teknologi Pendidikan: Landasan dan Aplikasinya*. Jakarta: Prenada Media, 2004.

[3]   R. E. Mayer, *Multimedia Learning*. Cambridge University Press, 2009.

[4]   R. Johnson, T. Smith, and L. Anderson, "Interactive Media and Its Role in Education," *J. Educ. Technol.*, vol. 45, no. 3, pp. 245–258, 2022.

[5]   N. Andriyani and R. Suherman, "Penggunaan Augmented Reality untuk Media Pembelajaran Matematika di SD," *J. Inov. Pendidik. Dasar*, vol. 7, no. 1, pp. 34–42, 2021.

[6]   A. Setiawan and Wahyudi, "Pengembangan Media Pembelajaran Berbasis Digital untuk Meningkatkan Kreativitas Guru SD," *J. Teknol. Pendidik.*, vol. 22, no. 3, pp. 145–156, 2020.

[7]   R. D. Putra and N. Fadilah, "Efektivitas Media Inovatif Berbasis Canva dalam Pembelajaran Tematik di SD," *J. Pendidik. Dasar Nusant.*, vol. 10, no. 2, pp. 58–67, 2021.

[8]   G. J. Hwang and P. H. Wu, "Applications, impacts and trends of mobile technology-enhanced learning: A review of 2008-2012 publications in selected SSCI journals," *Int. J. Mob. Learn. Organ.*, vol. 8, no. 2, pp. 83–95, 2014, doi: 10.1504/IJMLO.2014.062346.

[9]   A. Prastowo, *Panduan Kreatif Membuat Bahan Ajar Inovatif*. Yogyakarta: Diva Press, 2018.

[10]   S. Suyanto, *Dasar-Dasar Pengembangan Media Pembelajaran*. Jakarta: Depdiknas, 2005.

[11]   M. Prensky, *Teaching Digital Natives: Partnering for Real Learning*. Corwin Press, 2010.

[12]   T. Smith and L. Anderson, "The Impact of Digital Books on Student Engagement," *Educ. Res. Q.*, vol. 38, no. 2, pp. 112–129, 2021.

[13]   A. Suparman, *Desain Instruksional Modern*. Jakarta: Erlangga, 2014.

[14]   K. Pendidikan dan Kebudayaan, *Strategi pembelajaran di era digital: Penguatan kompetensi guru untuk abad 21*. Jakarta: Kemendikbud, 2020.

[15]   N. Nurhasanah and A. Sobandi, "Pentingnya Kreativitas Guru dalam Menciptakan Media Pembelajaran," *J. Pendidik. dan Kebud.*, vol. 1, no. 2, pp. 186–197, 2016.

[16]   K. Pendidikan, Kebudayaan, Riset, dan Teknologi, *Laporan Pendidikan Dasar di Indonesia*. Jakarta: Kemendikbudristek, 2021.

[17]   M. Warschauer, *Laptops and Literacy: Learning in the Wireless Classroom*. Teachers College Press, 2006.

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