



Development of Prezi Application-Based Learning Media on Making Sewing Edge Fragments in the Family Welfare Education Study Program

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ABSTRACT

This research was motivated by the limited learning media for the Basic Fashion Course regarding the completion of sewing edges. This research aims to: (1) plan the development of prezi application-based learning media on the completion of sewing edges based on needs analysis, (2) develop prezi application-based learning media on the completion of sewing edges, (3) validate learning media through expert judgment. The research model used is PPE (Planning, Production, Evaluation). Participants in this study amounted to two validators consisting of media experts and material experts. The results showed that: (1) learning media in Basic Fashion Subjects are limited to powerpoint projection media and required video work steps for finishing sewing edges, (2) development of prezi application-based learning media through the stages of design, manufacture, and completion, (3) the validation results show that the prezi application-based learning media on the completion of the sewing edge is very feasible so that it can be used as a medium during the learning process. Recommendations in this study can be followed up by implementing prezi application-based learning media in the manufacture of sewing edge finishing fragments.

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1. INTRODUCTION

The courses in the Family Welfare Education study program include theoretical and practical courses. Practical courses in the Family Welfare Education study program include Fashion Basics in which there is a practice of the basics of fashion making. The learning objective of the Basic Fashion Course is to equip students with the basics of sewing techniques by providing basic sewing skills. Students are expected to be able to produce products in the form of clothing so that they are required to be active and understand the steps of making basic clothing which is a course as a prerequisite for taking the next course, namely Fashion Making.

The completion of the sewing edge is one of the materials of the Basic Fashion course, the use of oblique fabrics for the completion of the sewing edge, often applied to the neckline, sleeves and bottom of the clothing as a finishing function or can also be a decoration on clothing. Completion of the sewing edge requires accuracy and diligence in the process so that it requires media that can facilitate students in understanding the material and steps for completing the sewing edge so that learning takes place effectively (Zaifullah *et al.*, 2021).

Learning is said to be effective if it achieves the desired goals both from the objectives and the maximum learning outcomes of students. Media innovation and development are needed so that students are able to gain new knowledge and experiences during the teaching and learning process so that the learning process becomes fun and interesting. The characteristics of efficient learning media have more than one content, for example by combining audio, visual, and are independent. Innovation in making learning media in terms of developing presentation slide media to make it more interesting and increase students' understanding of the material concerned and get theoretical and empirical feasibility results (Hapsari & Zulherman, 2021).

Based on the results of preliminary observations by interviewing one of the lecturers of the Basic Fashion course and several students of the Family Welfare Education Study Program, it is known that in the learning process the completion of the sewing edge in the Basic Fashion Course has been limited to using powerpoint media (Kahfi & Srirahayu, 2021). Students feel that the media that has been used has not facilitated the basic fashion learning process optimally because when doing practice with direct guidance from lecturers only a few students can follow it well, therefore students expect media that includes systematic sewing edge finishing work steps.

Prezi application learning media can be said to be practical and effective on student learning activities and results (Aufa *et al.*, 2021). In addition to being able to insert text, images, videos, and animations, prezi applications can insert powerpoint files, pdfs, and videos from other online applications such as YouTube so that the reach is wider. The characteristics of prezi application-based media are that students can pay attention and listen to presentations that will help students understand the material and increase memory (Nasution & Siregar, 2019). Prezi application is used to create structured presentation materials in the form of mind-mapping or mind-maps in which text, images, videos, and animations can be inserted (Nasution & Siregar, 2019). Prezi application learning media in the form of software or application programs that can be downloaded and operated using a laptop or computer. Another advantage of the prezi application program is accessed online and can be displayed offline, so prezi as a learning media makes it easy to operate without the need for internet assistance when displaying presentations.

Based on this description, this research is focused on developing prezi application-based learning media on making fragments of finishing sewing edges for Family Welfare Education study program students.

2. METHODS

The model used in this study refers to the PPE (planning, production, and evaluation) model which is in accordance with the research objectives.

2.1. Research Respondents

There were two participants involved in this study, namely academic media experts and lecturers of the family welfare education study program as material experts.

2.2. Research Instruments

The research instruments used in this study are as follows:

(i) Online interview guideline

Interview guidelines are used to obtain data regarding learning media in basic fashion courses.

(ii) Digital Validation Format

This validation sheet was made into two different validation formats, formats for media experts and material experts which were carried out online.

2.3. Research Procedure

The steps of the procedure carried out in the development of prezi application-based learning media on the completion of sewing edges, as follows (Ma'ruf & Syafaifin, 2021):

(i) Preparation Stage

This stage is the planning stage regarding the description of the media development research process prezi application learning. At this stage, a preliminary study was carried out and analyzed the needs of media design using the interview method to the lecturer of the fashion course in order to obtain information about the availability of media in the fashion learning process, after that determining the subject matter to be used as media according to learning needs and formulating the problems to be studied.

(ii) Implementation Stage

The implementation stage in the research is as follows:

- a. Analyzing the need for making prezi application-based learning media on finishing the edges of sewing, conducted through interviews with lecturers and students of the PKK Study Program.
- b. Developing prezi application-based learning media on finishing the edges of sewing includes the stages of design, manufacture, and completion.
- c. Conducting feasibility tests through expert judgment conducted by media experts and material experts to test the feasibility of learning media that has been developed.

(iii) Completion Stage

The completion stage carried out by researchers is to collect all the data that has been obtained, processed and make reports in accordance with the systematics in conducting research.

2.4. Data Analysis Technique

(i) Data Reduction

Data reduction is carried out to summarize the results of interviews regarding student characteristics, learning media needs, and media use during the learning process.

(ii) Data Display

Data display is done to describe in general the results of interviews about student characteristics, learning media needs, and media use during the learning process. The findings are then described to make it easier to understand.

(iii) Data Processing

The percentage of data aims to determine the percentage of the assessment results obtained from the results of prezi application-based learning media on the completion of sewing edges. The formula used to calculate the data is:

$$P = \frac{\sum x}{\sum xi} \times 100\%$$

Description:

P = Percentage score

$\sum x$ = score obtained

$\sum xi$ = ideal score

(iv) Data Interpretation

Data interpretation in this study was carried out to obtain an overview of the answers to the validation sheet. The interpretation of the data used by the validation results uses assessment qualifications. Data interpretation using assessment qualification criteria can be seen from the **Table 3.** below:

Table 3. Assessment qualification criteria

No.	Percentage	Category
1.	81% -100%	Very Feasible
2.	61% - 80%	Feasible
3.	41% - 60%	Fairly Feasible
4.	21% - 40%	Less Feasible
5.	0% - 20%	Not Feasible

Source: (Arikunto, 2010)

3. RESULTS AND DISCUSSION

3.1. Results

The findings that will be explained are data that has been processed through interviews and expert judgment. The findings of the prezi application-based learning media development on making sewing edge fragments are as follows:

3.1.1. The needs analysis stage of Prezi application-based learning media

The needs analysis stage in this study was obtained from the results of interviews with lecturers and students of Family Welfare Education through social media, email and google form. The interview aims to explore information about the availability of learning media for Basic Fashion Subjects and to find out what kind of learning media is expected and needed by students and lecturers in basic fashion learning (Mahnun,2012).

The hope of this prezi-based learning media is that it can help, especially in making a product that can improve student abilities and can streamline learning time and support learning either independently, remotely, or in groups. Based on the results of the interviews above, it can be concluded that students and lecturers need supporting media in learning the completion of sewing edges in Basic Fashion Subjects (Ramli *et al.*, 2018). Therefore, researchers developed a prezi application-based learning media on making sewing edge fragments.

3.1.2. Prezi Application Based Learning Media Development Stage

The results of the analysis obtained also show the need for learning media development. The development carried out on basic fashion learning media is work steps in the form of videos.

3.1.3. Evaluation stage of expert judgment Prezi Application-Based Learning Media

Stage to assess whether the learning media developed is suitable for use. This stage is carried out by asking media experts and material experts to assess the learning media that has been developed, so that the developed media is suitable for use (Ambarwati & Budiastuti, 2018).

3.2. Discussion

The discussion of research data on prezi application-based learning media on making sewing edge fragments is described as follows:

(i) Needs analysis of prezi application-based learning media

The first stage of this research is analyzing the needs of prezi application-based learning media. The results of the needs analysis conducted by interviewing students and lecturers of Family Welfare Education, found that learning media is needed because of the limited media used during teaching and learning activities. Learning media that has been used in learning is projection media in the form of powerpoint.

The existence of learning media based on the prezi application can help students learn material independently repeatedly as a whole or certain parts that are considered difficult. Students can understand theoretical and practical learning so that the learning process is effective and increases student motivation in the learning process.

(ii) Prezi application-based learning media development

Prezi application-based learning media development consists of three stages, namely the design stage, the manufacturing stage and the completion stage. Explained as follows:

a. Learning Media Design Stage

The design stage is carried out by making a storyboard that displays material about finishing the sewing edge. There are two storyboards made, namely the media storyboard and the work step video storyboard. The content displayed on the prezi learning media storyboard is in the form of visuals, images and descriptions of the instructions for use slide, learning objectives, material for finishing the sewing edge and tools & materials needed for sewing. The content displayed on the work step video storyboard is in the form of visuals, images and descriptions of the work steps for making fragments of the sewing edge of the vise, depun and serip technique. Media design is adjusted to the needs and criteria of good learning media, which includes audio, images and moving visuals (Antika & Suprianto, 2016).

b. Learning Media Development Stage

Some of the things done at this stage of learning media development are making prezi application-based media and making work steps for making fragments of finishing sewing edges in the form of videos. Making learning media using the prezi application is made in accordance with the storyboard that has been given input by the supervisor and in accordance with existing media criteria. There were 3 videos recorded, namely about making fragments of finishing the sewing edges of the rompok technique, depun technique and serip technique.

c. Completion Stage of Learning Media

The completion stage is the activity of editing videos that have been recorded using the wondershare filmora application. This video editing includes cutting, merging and accelerating the video as well as adding images and sound both instruments and narration so that the learning media becomes more interesting. Students are more interested in interesting media so as to increase learning motivation (Syaiful Bahri, 2010). The video of the work steps is included in the prezi application-based learning media that has been made before so that the media becomes one media that displays systematic material and work steps and can be used as an independent learning resource at home.

(ii) The results of validation of prezi application-based learning media

Based on the percentage of validation results show that prezi application-based learning media on making sewing edge fragments with "very feasible" criteria because it obtained a score of 100%, this refers to the scale (Arikunto, 2010) the validity qualification criteria are very feasible. The results of input and suggestions from validators that have been improved make the prezi application-based learning media on making sewing edge fragments more valid, so that it can be used by lecturers as a learning media for basic fashion courses.

The exceptional validation results also underscore the potential of the Prezi application-based learning media to serve as a transformative tool in educational settings. By utilizing multimedia elements and interactive features, it caters to diverse learning styles, fostering a more engaging and comprehensive learning experience. This approach not only aids in the retention of sewing techniques but also encourages creativity and critical thinking among students. Furthermore, the user-friendly interface ensures that both instructors and learners can easily navigate and maximize the application's capabilities, making it an invaluable resource for enhancing the overall learning process in basic fashion courses.

4. CONCLUSION

Based on the research that has been conducted on the Development of Prezi Application-Based Learning Media on Finishing the Sewing Edge, the following conclusions can be drawn:

- (i) The development of learning media in basic fashion courses departed from the needs analysis that the existing media tools were still limited and along with technological developments and to further improve the quality of lectures, the development of learning media was directed at prezi application-based learning media. The results of this needs analysis are used as a reference in the development of prezi application-based learning media on finishing the edges of sewing.
- (ii) The advantages of this prezi application-based media are that it can be studied independently by students so that it supports distance learning and includes some in the form of text, images, audio and video. The following are the stages of developing learning media:

- a. Designing learning media according to the results of the needs analysis, starting from determining learning objectives, learning materials to be presented and making storyboards.
 - b. The second stage is the creation of prezi application-based media and work step videos, including material, preparation of tools and materials, and work steps for finishing the sewing edge according to the storyboard that has been made.
 - c. The completion stage is the activity of editing videos that have been recorded including cutting, merging and accelerating videos and adding images and sound both instruments and narratives so that learning media becomes more attractive.
- (iii) The results of the validation of Prezi Application-Based Learning Media on Completion of Sewing Edges after being revised were declared “very feasible” in terms of media seen from the aspects of layout design, text, images, audio, video and interactivity and in terms of material seen from conformity with learning objectives, clearly structured material, steps easy to follow and understand by students, and suitability of tools & materials used in the sewing process.

AUTHORS' NOTE

The authors declare that there is no conflict of interest regarding the publication of this article. Authors confirmed that the paper was free of plagiarism.

REFERENCES

- Ambarwati, A. T., & Budiastuti, E. (2018). Penerapan Metode Pemberian Tugas Pada Kompetensi Pembuatan Macam-Macam Kampuh Siswa Kelas X Di Smk Karya Rini Yhi Kowani Yogyakarta. *E-Journal Pendidikan Teknik Busana-S1*, 7(5).
- Antika, Y., and Suprianto, B. (2016). Pengembangan media pembelajaran berbasis prezi sebagai upaya meningkatkan hasil belajar siswa kompetensi dasar aplikasi rangkaian OP AMP mata pelajaran Rangkaian Elektronika Di SMK Negeri 2 Bojonegoro. *Jurnal Pendidikan Teknik Elektro*, 5(2), 493-497.
- Aufa, N., Zubainur, C. M., and Munzir, S. (2021). Pengembangan perangkat pembelajaran model Missouri Mathematics Project (MMP) berbantuan software Geogebra untuk meningkatkan pemahaman konsep siswa. *Jurnal Inovasi Penelitian*, 1(11), 2377-2394.
- Hapsari, G. P. P., and Zulherman, Z. (2021). Pengembangan media video animasi berbasis aplikasi canva untuk meningkatkan motivasi dan prestasi belajar siswa. *Jurnal basicedu*, 5(4), 2384-2394.
- Kahfi, M., and Srirahayu, E. (2021). Penerapan multimedia interaktif untuk meningkatkan motivasi belajar dan hasil belajar siswa pada pembelajaran IPA. *PETIK: Jurnal Pendidikan Teknologi Informasi dan Komunikasi*, 7(1), 63-70.
- Mahnun, N. (2012). Media pembelajaran (kajian terhadap langkah-langkah pemilihan media dan implementasinya dalam pembelajaran). *An-Nida'*, 37(1), 27-34.
- Ma'ruf, M. W., and Syaifin, R. A. (2021). Strategi pengembangan profesi guru dalam mewujudkan suasana pembelajaran yang efektif. *Al-Musannif*, 3(1), 27-44.
- Nasution, E. Y. P., and Siregar, N. F. (2019). Pengembangan media pembelajaran berbasis Prezi. *Tarbawi: Jurnal Ilmu Pendidikan*, 15(2), 205-221.

- Ramli, A., Rahmatullah, R., Inanna, I., and Dangnga, T. (2018). Peran media dalam meningkatkan efektivitas belajar. *Lembaga Pengabdian Kepada Masyarakat Universitas Negeri Makassar*, 1(7), 5-7.
- Zaifullah, Z., Cikka, H., and Kahar, M. I. (2021). Strategi guru dalam meningkatkan interaksi dan minat belajar terhadap keberhasilan peserta didik dalam menghadapi pembelajaran tatap muka di masa pandemi Covid 19. *Guru Tua: Jurnal Pendidikan dan Pembelajaran*, 4(2), 9-18.