

(Learning Media Development) *Flipbook* Cake Decoration Ornaments Made of Fondant For Deaf Students at SLB Negeri 01 Jakarta)

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Abstract

This research aims to develop a learning media, a flipbook, of cake decoration ornaments made from fondant for Deaf students at SLB Negeri 01 Jakarta. The method used in this research is Research and Development (R&D) with the ADDIE development model (Analyze, Design, Development, Implementation, Evaluation). The results showed that the learning media developed had been validated by 2 SLB teachers who were material experts in the culinary area, language area and media with good qualifications. The development of learning media is stated through the results of validation to media experts, which produces a percentage of 84%, for material experts in the culinary area the resulting percentage is 97.5% and the test results obtained from linguistics are 74.5%. The trial to Deaf students showed positive results, with a feasibility percentage of 75.9% in the one-to-one trial and 77.7% in the small group trial. The results of this research can be concluded that this flipbook media is expected to improve the understanding and skills of Deaf students in cake decoration, as well as make a positive contribution to inclusive education.

Keywords: Learning Media, Flipbook, Fondant Cake Decoration Ornament, Deaf Students, Practical Skills

INTRODUCTION

Learning is a process of interaction between educators, students, and other learning resources that aims to obtain knowledge and skills needed by students. Currently, learning media has experienced quite rapid development, along with the development of science and technology. One of the learning media that has experienced development is flipbook.

In general, *flipbooks are digital books* in three dimensions that contain images, text, animation, video to music or songs. Thus, flipbook is one of the learning media that is quite complete to be used as a learning media. Fondant ornaments can be made into three-dimensional decorations.

They can be formed using molds or by hand according to the desired theme, for example, scenery, garden, farm and so on. According to Potts (2020), these fondant ornaments are available in various colors and flavors, and plain rolled fondant can be easily customized to match the desired color and flavor. Therefore, learning materials about fondant are included in the school's learning plan. Teaching the technique of making ornaments using fondant as the basic material for deaf students in a special needs school certainly poses its own challenges.

METHOD

This study uses the R&D (Research and Development) research method, which is carried

out in the culinary skills class. This method is used to obtain a flipbook on fondant decorative ornaments with the theme "Farms and Plantations"

Population and Sample:

1. Population: All deaf students at SLB 01 Jakarta who were the target of the research.
2. Sample: Deaf students selected purposively based on their level of ability and interest in the culinary field.

Required data

In developing flipbook cake decoration ornaments fondant, especially for deaf students, the data collected must be relevant and specific. This data will be the basis for determining the content, structure, and visual appearance flipbook which is effective.

Here are some types of data that need to be collected:

Student Data:

Cognitive abilities are students' level of understanding of visual concepts, sequence of steps, and vocabulary related to cake decoration, interests and preferences are the types of ornaments they like, favorite colors, and decoration styles that appeal to students, and motor skills are students' ability to perform fine movements required in cake decoration.

Material Data:

Decoration techniques are detailed steps for making various types of ornaments. *Fondant*, from simple to complex, tools and materials,

namely the types of tools and materials commonly used in cake decorating *fondant*, including visual aids for each tool, and associated vocabulary, which are terms in sign language or pictures that represent tools, materials, and decorating techniques.

Data Media:

The effectiveness of existing media is an evaluation of existing visual learning media, both printed and digital, and visual preferences are the types of images, colors, and layouts that are most attractive and easy for students to understand.

Development Procedure Model

In this procedure, it was developed by Cennamo, Abell, & Chung, (1996), explaining the perspective, which was developed as a basis for work in the ADDIE phase above.

Analyze level

The analysis stage, this exploratory research includes issuing questionnaires to SLB students majoring in culinary arts who have received or will receive learning materials regarding fondant, which will then analyze the students' initial abilities in making fondant.

Design Level

At the design stage, determine the objectives of the learning process according to the needs of the learning process that have been analyzed in the previous stage and design the media concept *flipbook making cake decoration ornaments* from materials fondant for deaf students in SLB by creating GBIM (Media Content Outline), JM (Material Description), as well as storyboard with an orderly sequence of learning in which there are certain steps in the making *fondant which* should use visual learning methods.

Development stage

At this stage, learning media will be developed based on the concept created in the previous design stage. It is a media development stage where media development begins by preparing all the tools and materials that are ready to be explained through flipbook how to make ornaments fondant.

Implementation Stage

Observation of research subjects in their natural context to obtain in-depth data is carried out using semi-structured interviews, or in-depth interviews with participants to obtain their perspectives and experiences, which are then

implemented with questionnaires, distributed to see the answers and obtain descriptive data from participants.

Evaluation level

At the evaluation stage, which is the final stage, it is carried out review by analyzing media implementation. This includes evaluation tools, such as observations and quizzes, to measure understanding and skill acquisition for learners.

Data Collection Techniques

Data collection can be done in various settings, various sources and various ways. Judging from the method or technique of data collection, it can be done by observation, questionnaires and decompensation (Sugiyono, 2019). Media development research flipbook *digital* the technique or procedure used in data collection is the questionnaire collection technique (Sugiyono, 2013),

Data Analysis Techniques

Data analysis techniques used in media development research flipbook *Cake Decoration Ornaments material with Fondant* is a descriptive analysis technique. Qualitative research does not use statistics, but through data collection, analysis, then interpretation (Albi Anggito & Johan Setiawan, 2018).

RESULTS AND DISCUSSION

Research result

This research is to develop flipbook *digital with cake decoration ornament material fondant* as a learning medium for deaf students. This research will focus on the location, role, and process of product development. *Flipbook digital* and cake decorating materials made from fondant for deaf students at SLB and providing services for students at SLBN 01 Jakarta.

Discussion

Research on the development of learning media flipbook cake decoration ornaments made of fondant for deaf students using the R&D research method (*Research and Development*) with the ADDIE development model process (*Analyze, Design, Development, Implementation and Evaluation*). Development Flipbook validated by material experts, language experts and media experts. The assessment of material experts gave an assessment of 100% with a very good category.

Based on the test results data *One to one* which has been done to get a score of 75.9% by making revisions to the suggestions and comments given. In the 18 statement points, statement point number 5 which reads "Ornamental cake decorations fondant presented sequentially and systematically" received the lowest score, namely 9 out of 15.

Test Results *Small Group* that has been done gets a score of 77.7%. In the 18 statement items, statement item number 5 which reads "Ornamental cake decorations fondant presented sequentially and systematically". Getting the lowest value weight, namely 16 out of 25. However, at the trial stage *one to one* previously fixed. Test Results *Small Group* falls into the good category, which can be interpreted as media flipbook *digital*. This is very good to use as a learning medium.

CONCLUSION

Research on the development of learning media flipbook cake decoration ornaments made of fondant for deaf students using the R&D research method (*Research and Development*) with the ADDIE development model process (*Analyze, Design, Development, Implementation and Evaluation*). Development Flipbook validated by material experts, linguists and media experts. The assessment of material experts gave an assessment of the percentage of 100% with good qualifications, 74.55% of linguists with good qualifications and 84% of media experts with good qualifications.

SUGGESTION

Based on the research and development that has been carried out, it is suggested that learning media flipbook cake decoration ornaments made of fondant for deaf students, it is best to access it online so that they can get complete information from the videos and audio contained in it. *Flipbook*.

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