

DEVELOPMENT OF PRESENTATION MEDIA BASED ON PREZI IN FUNGI SUBJECT FOR GRADE X

Liya Indrawati

Biology Department, Faculty of Mathematics and Natural Sciences, Universitas Negeri Surabaya
Email : liya.indrawati@gmail.com

Endang Susantini and Ulfi Faizah

Biology Department, Faculty of Mathematics and Natural Sciences, Universitas Negeri Surabaya

Abstract

Fungi is a very broad topic. Because of this breadth, learning media are needed so it can help students to understand all fungi subject. The media needed can at least attract students' interest in studying fungi subject. One of suitable medium is Prezi-based presentation media that can display audio and visuals in delivering material and also can be zoomed in and zoomed out. This study aims to produce a Prezi-Based Presentation Media at fungi subject in grade X high school and describe its validity. Media development is done at Biology Department, Faculty of Mathematics and Natural Sciences, Universitas Negeri Surabaya by using (ASSURE) Analyze Learner, State Objective, Select Media and Materials, Utilize Media and Materials, Require Learner Participation, Evaluate and Revise method. The media validity assessment sheet refers to the Likert scale. The media is reviewed by writing down whether there are any aspects expected in each component and assessed with a range of scores from 1 to 4, with the category score 1 : less decent, 2 : quite decent, 3 : decent and 4 : very decent. The media was validated by two biology lecturers. Based on the results obtained, Prezi-based presentation media is declared decent with an average value of 3.28 and should be tested in terms of its validity.

Keywords: Multimedia, Prezi, Fungi subject.

INTRODUCTION

Increasing the potential and learning activities of students is the responsibility of a teacher, by creating fun teaching and learning activities. Teachers need a learning media to support teaching and learning activities in order to be optimal. This learning media is expected to increase student motivation and learning outcomes in the topic taught (Sagala, 2009).

Describing of phenomena that exist in biology can be done in various ways, one of them is using computer-based learning media. Making a learning media in the form of presentation media is one of the efforts in utilizing IT progress. One of medium that can be used to attract students' attention is by using Prezi media presentations. According to Rosadi (2012), Prezi is a software that makes a presentation slide online. Prezi has a look like a mind map, so it can facilitate students to understand the topic presented.

Fungi subject is one of the subjects that exist in biology learning in grade X. Based on KD 3.7, students are expected to be able to classify fungi based on characteristics, ways of reproduction, and linking their role in life. Fungi are topics that are closely related to human life, for example diseases caused by fungi to humans, damage to crops and agricultural crops, and their role in the pharmaceutical and food industries (de Souza, et al 2012). The fungi subject has a broad scope in terms of information wealth. The extent of information in this fungi subject is not matched by proportional allocation of learning time in the classroom, so that the delivery of

fungi material requires a media which can support the learning process. Media study is needed to overcome the limitations of time, and able to display microscopic and macroscopic forms of fungi (Rahmawati, 2013).

According to the survey results at one of private high schools in Surabaya in March 2016, technology that should be able to facilitate the learning process at school, has not been realized optimally by teachers and students. One of them was in the computer laboratory of SMA Muhammadiyah 2 Surabaya. This computer laboratory has been equipped with an internet connection, but it only used for ICT subjects so that is not maximally used. So, it would be nice if this laboratory was also used in the process of learning biology. In addition, in the delivery of material, the teacher's duty only explain with a powerpoint media, not using other media such as Prezi. So, it is expected that many of the students will be very enthusiastic because they will be more happy if the learning process is done outside the classroom and learning is carried out in different ways.

We can identified problems, those are : 1) Teachers do not use learning media that are more sophisticated and interesting for students in following the learning process. 2) Teachers are less able to use computers in the learning process. 3) The extension of information in fungi subject is not balanced with proportional allocation of learning time in class. Therefore, it is necessary to develop learning media using Prezi on fungi subject. Based on the background, this problem can be formulated as follows: "How is appropriateness of Prezi-based media on fungi subject for grade X?" and the purpose of this experiment is producing

a valid media presentation based on Prezi in fungi subject for grade X and has been assessed by education experts and biological material experts.

METHOD

This research was a development research that developing a presentationmedia based on Prezi in fungi subject for grade X and will be validated by two education expert lecturers and biological matter experts at the Universitas Negeri Surabaya to find out the appropriateness of the media to be developed. The development model used on this research was ASSURE including Analyze Learner, State Objective, Select Media and Materials, Utilize Media and Materials, Require Learner Participation, Evaluate and Revise by excluding Utilize Media and Materials and Require Learner Participation phases. The research was conducted at the Department of Biology, Faculty of Mathematics and Natural Sciences, Universitas Negeri Surabaya in October 2018 to January 2019. The research target at the Prezi-based media development stage on fungi subject was the result of validation by two biology lecturers from Universitas Negeri Surabaya. The procedure of the study was carried out in two stages, namely the development stage and the revision phase of the Prezi-based media presentation. The media validity assessment sheet refers to the Likert scale. The media is reviewed by writing down whether there are any aspects expected in each component and assessed with a range of scores from 1 to 4, with the category score 1 = less decent, 2 = quite decent, 3 = decent and 4 = very decent. The average score can be obtained through the formula:

$$average = \frac{total\ score\ each\ component\ in\ media\ reviewed}{total\ components\ in\ media\ reviewed}$$

Based on the score assessment criteria, conclusions can be made that Prezi based media on fungi material is decent if you get a score $\geq 2,51$ (Sugiyono, 2012).

RESULT AND DISCUSSION

The type of this research is developing a learning media based on Prezi in fungi subject. Prezi is a software used to make a presentation on canvas without limited slides. One of the advantages of this presentation media based on Prezi is that it can be zoomed in and out. The results of this study are validity which is seen based on the validation of the Prezi learning media. The product produced, includes all fungi subject and display audio, visual, and video. Display on the product can be enlarged or reduced so that it can facilitate students in the learning process. The product result can be seen at Figure 1.



Figure 1. Preliminary Display of Prezi-Based Media

In the Select Media and Materials stage, media selection is appropriate to the learning objectives by developing Flash-based learning media. The early preparation of Flash-based media on fungi subject produced 1st Draft which was reviewed by supervisors and disseminated. The disseminated Flash media received advice from the examiners to be replaced by Prezi media and produce 2nd Draft that is ready to be validated, The following are the validation results that have been validated by examiners, can be seen in Table 1

Table 1 Results of Prezi-Based Presentation Media Validation on Fungi Subject

| Rated Aspect | Average | Category |
|----------------------|-------------|---------------|
| Display | 3.45 | Decent |
| Contents | 3.17 | Decent |
| Language | 3.25 | Decent |
| Average score | 3.28 | |
| Category | | Decent |

Based on Table 1, can be seen that presentation media based on Prezi get a decent category. Prezi-based presentation media that has been developed have an average value of 3.28. This shows that Prezi-based presentation media decent enough to be tested. In the aspect of appearance, there are two aspects that get score 4, those are the appearance of the media as a mushroom learning media and the appearance of the media can be enlarged or reduced. The formality of the appearance of the media as a learning medium gets very decent value because the media is suitable with that aspect. In KBBI, the meaning of the word formalities is the form (rules, procedures, procedures, habits) that apply, so it can be concluded that the formality of media display is appearance of the media is suitable with the procedures in making media generally.

According to Merrill (1996), there are four main categories in media offerings those are screen format, navigation, easy to use and interactive. The Prezi media developed has met these criteria so that it gets very decent value. Whereas in the aspect of Display media can be enlarged and minimized get very decent value because the media has fulfilled that aspect. One of the advantages of displaying this magnified and minimized media is that it can help students capture information on the media so that information can be stored in long-term memory. Sensory memory is recorded enters through one or a combination of the five senses, those are visually through the eyes, hearing through the ear, smell through the nose, taste through the tongue, and palpation through the skin. If information is noticed, then the information will be transferred to short-term memory. Students got the information through two senses those are visual and

hearing from Prezi media. Short-term memory systems only store information or stimuli for about 30 seconds. After being in the short-term memory system, the information can be transferred again with the repetition process to the long-term memory system to be stored (Solso, 1995).

On Prezi media, students open the media and see the initial appearance of the media as sensory memory, students open one subject title as short-term memory then students zoom in as long-term memory because students have received information that is on the media and stored in memory so that it can become long-term memory. Aspect of media display get the highest value, with an average of 3.45 which contains 11 aspects, then the content / material aspect gets a value of 3.17 which contains 17 aspects and language aspect gets a value of 3.25 which contains 2 aspects. Most of the truths about the concept of fungi subject get an average value of 3, but Prezi-based media presentation still can be tested because it is deemed decent. From various aspects that already exist, for example using a simple background, contrast and consistency can make the media look more attractive and make students motivated in learning (Nurseto, 2011).

The use of media can be said to be very important because it means as a process and rearrangement of verbal and visual information. The information is tangible as an explanation presented by conversation or writing. Verbal info is easier to understand than visual information that resembles an image or line that tends to require a certain observation, for example graphics, maps, charts (Musfiqon, 2012).

CONCLUSION

Based on the results of research on the development of media presentation based on Prezi in fungi subject for grade X, can be concluded that the results of this study obtained a decent Prezi-based media presentation because it gets an average score 3.28 and very decent in 2 aspects those are on the appearance of the media as a fungi learning media and the appearance of the media can be zoomed in or zoomed out.

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REFERENCES

de Souza, R., Delou, C.M.C., Côrtes, M.B.V., Mazza-Guimarães, I., Machado, S., Rodrigues, C. R. & Castro, H.C. 2012. Blindness and Fungi Kingdom: A New Approach for Teaching a Biological Theme for Students with Special Visual Needs. *Scientific Research*. 3 (5): 674-678.

Merril. 1996. *Computer in Education*. A Simon & Schuster Company Nedham Heights, Mass.

Musfiqon. 2012. *Pengembangan Media dan Sumber Media Pembelajaran*. Jakarta: PT. Prestasi Pustakaraya.

Nurseto, Tejo. 2011. *Membuat Media Pembelajaran yang Baik*. *Jurnal Ekonomi & Pendidikan*, Volume 8.

Rahmawati, E. 2013. *Pengembangan Lembar Kera Siswa (LKS) Interaktif Berbasis Website Materi Jamur (Fungi) untuk Siswa SMA/MA Kelas X Semester 1*. Skripsi tidak diterbitkan. Yogyakarta: Fakultas Sains dan Teknologi UIN Sunan Kalijaga.

Rosadi, H. 2013. *Pengembangan Media Slide Berbasis Program Aplikasi Prezi pada Materi Sistem Peredaran Darah Manusia untuk Sekolah Menengah Pertama*. Surabaya :Universitas Negeri Surabaya.

Sagala, S. 2009. *Konsep dan Makna Pembelajaran*. Bandung: Alfabeta.

Solso, R.L. 1995. *Cognitive Psychology*. (4th ed). Boston: Allyn and Bacon, Inc.

Sugiyono. 2012. *Metode Penelitian Kuantitatif Kualitatif dan R&D*. Bandung: Alfabeta.