

Learning Media Based on Website Development of Courses in Patisserie Culinary Student of FT Unimed

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Abstract. This research aims: to develop a website-based patisserie learning as an independent media learning media for UNIMED Culinary Students Study Program. Research located in the Laboratory of Culinary Education, Universitas Negeri Medan. The subjects of this study were two media experts, two materials experts and 20 students. Research was done in July 2019 - October 2019. The method used in this research is the Research and Development. Data collection techniques in this study used a questionnaire. Questionnaire Data collected from material experts, media experts, and students were analyzed using descriptive statistics. Based on the results of this study in the opinion of the experts on the material aspects of the feasibility of the contents including good criteria, on the presentation aspects including good criteria and on the linguistic aspects Including very good criteria. Based on the opinion of the media experts on the aspects including the very good criteria, the aspects of the negatives include the very good criteria. Based on the opinion of users/ students on the material aspects, Including good criteria and the aspects of the display, including very good criteria. Results of this research is based on the website-based learning media includes both criteria as a medium of independent learning for students of Universitas Negeri Medan..

Key Words: website, patisserie

1. Introduction

Developments in technology and communications have changed the current of human life. Almost all humans' work is easier with the help of advanced technology, one of which is a computer technology. Currently this technology is now a staple to help get the job done quickly and accurately. For example, in the case of households, commerce, education entertainment until everything can be solved with a computer. An example of this is the development of computers and mobile phones.

Web-based learning media can incorporate a wide variety of media. The diversity of these media is including text, images, audio, video, animation, and even simulation. The website is one of the platforms that can contain many databases that are useful as containers or facilities that can inform an object is both institutional information, learning, promotion and so forth.

With a huge data base, the website is able to provide better information services such as facility teaching materials, examinations, student database useful for effectiveness and efficiency in learning activities. Media Web-based learning is one form of application of the system of E-Learning (electronic learning).

E-learning is a medium of learning by using electronic tools as a kit, according Daryanto [1], says that e-learning is learning that used electronic media, both online and offline are applied in conventional education and distance education. E-learning system is one system of learning for students as e-learning can help students add information over the course *patisserie*.

Based on the results of observations made, there are some things that become problems in the learning process that reduces the level of efficiency of time is the provision of teaching materials are so many conventional distributed in the lecture that makes a lot of time is spent only for the provision of instructional materials. Standardization of materials, equipment, reception and storage means insufficient cause many *pesetas* students who take different references from internet so the results do not correspond with *patisserie* learning courses.

Therefore, Internet-based media should be able to be an effective solution to overcome the shortcomings of the media conventional learning and easily helps educators to channel all teaching materials available on the course *patisserie* effectively and efficient, as well as helping the learners to get the material learning relevant.

In accordance with the description above, the problem in this research is: How to develop a web-based learning media in the course *patisserie* Catering FT Unimed Students?

2. Study Literature

In etymology, media comes from the Latin, the plural form of the word medium, which means the center or intermediary. Intermediary or introductory term is used for the function of the media as an intermediary or an introduction to a message from the sender (seller) to the recipient (receiver) message [2].

In the opinion of Barlo "communication process involves at least three major components, namely the sender or the source of the message (source), intermediaries (media) and receiver (receiver)". Meanwhile, according to Widodo and Jasmadi the opinion that "there are four components that must be present in the communication process that is a conduit of information, the information itself, the audience and the media" [2].

From some of the above opinion can be said that the media have a very important role is as a device or tool that serves as an intermediary in the communication process.

Web is a collection of web pages that are usually housed in a domain or sub-domain that it is located within the world wide web (www) on the internet. Each of these web pages is also called web page. The main page of a web commonly called as homepage. "Web is a hypertext medium that provides facilities for displaying data in the form of text, images, sound, animation, and other multimedia data".

Web as a collection of pages which is used to display text information, still or motion picture, animation, sound, and a combination of everything good that is static or dynamic form a suite of interconnected buildings, which each respectively connected to the network page [3]. Meanwhile, the Web is a place on the Internet that consists of a collection of images, video, and other files that are placed on a web server, so it can be accessed online by anyone through the Internet.

"*Patisserie*" is one of knowledge in the processing and presentation of the food, especially the process and presenting various kinds of cakes [4]. *Patisserie* derived from the French as "*patisserie*" meaning pastries. Thus *patisserie* can be interpreted as the science that studies the

ins and outs of a good pie pastry continental, oriental and Indonesian cakes from preparation, processing up to the presentation. Currently, patisserie is studied as a science and art in the process and presenting a wide variety of excellent pastries pastry traditional and modern. The cake can be served in a variety of occasions, in addition to providing a sense of fullness, also serves as a cake decoration or ornament. Now this is the quality and taste of the cake would have been much different.

With the insight that develops, man adding and mixing the various ingredients and aromas, giving rise to variations of patisserie so vast. Patisserie variation can also be formed by a variety of techniques and different processing methods. However, these variations could not be separated from art and beauty.

3. Research Methods

The method used is research and development, because this research, including research development that is intended to produce a decent learning product utilized and as needed. Limits on research and development in an effort to develop and validate the products used in the learning process.

Based on the development model used is the ADDIE development model of the research method used, namely: 1) stage of analysis is to identify learning needs and develop learning objectives which refers to the applicable curriculum deprogram culinary education studies Terrain public universities. Identifying the behavior and characteristics of the students. This is done to determine the condition rather than objects or targets developed product is acceptable, 2) In the design phase, the activities carried out are designing a website, 3) At this stage of development, the activities to be carried out are: a) make the initial display media websites during a media opened, b) inserting content, photos and videos. 4) Once the design is developed then the next thing is to implement the product, implementation phase was conducted to look at the conditions when the medium run media website. If media website created already be executed as planned, the next activity is to evaluate media websites. However, if there is no match then carried back stage revision of the media. 5) Evaluation or testing phase of the product to validate the product. The evaluation conducted by expert instructional materials, instructional media experts and users such as students learning media. 5) Evaluation or testing phase of the product to validate the product. The evaluation conducted by expert instructional materials, instructional media experts and users such as students learning media. 5) Evaluation or testing phase of the product to validate the product. The evaluation conducted by expert instructional materials, instructional media experts and users such as students learning media.

4. Result and Discussion

Data collection instruments on the development of this form of assessment instrument to assess the products have been developed. Instrument staple used to collect data in this development is to use a questionnaire sheet.

Table 1. Grid Research Instruments About Quality Learning Materials

Aspect	Indicator	Item number
Feasibility of Contents	Quality Learning Materials	2
	Information Submission System	4
	Presentation Quality Learning Materials	5
Linguistic Amount	Linguistic Quality Learning Materials	3
		14

Source: Sugiyono 2010

Table 2. Grid Research Instruments About Quality Design Expert Media

Aspect	Indicator	Item number
Presentation	Media Presentation Design Quality	9
Graphic	Presentation Quality Learning Materials	7
Amount		16

Table 3. Grid Research Instruments Technical Quality and Views On Students

Aspect	Indicator	Item number
Theory	Contents Learning Materials	8
Display	Learning Media Display	6
Amount		14

Source: Sugiyono 2010

The scale of measurement in this study refers to a Likert scale, where each made using a 1-5 scale response categories were given a score or weight is the amount of a score between 1 and 5, with details as written in Table 4 below:

Table 4. Assessment Criteria [5]

Score	Criteria	Percentage
A	Very good	100-90
B	Well	98-79
C	Pretty good	69-50
D	Not good	49-30
E	Very No Good	29-0

The quality of learning materials on the web-based media in the course patisserie has three aspects are considered, among others: the content feasibility aspects, aspects of the presentation and evaluation aspects of the language used in teaching media.

The results of the assessment of the development of web-based instructional media on patisserie subjects as media independent study are as follows:

Table 5. Assessment Expert and User-Based Learning Media Website

No.	Respondents	Value (%)	Criteria
1	Expert Content	90.00	Very good
2	Expert Media	91.05	Very good
3	College student	89.00	Well

The results of the research-based instructional media *website* in the course *patisserie* has 3 types of validation such assessment, an assessment based on subject matter experts in the table above can be seen VI-based instructional media development results on the course website *patisserie* with the achievements of the value of 90.00 is included in the criteria very well. At a media expert with the achievements of the value of 91.05 qualifies as a very good and on the respondent student receives a grade of 89.00 included in both criteria.

Some of the uses and benefits of using instructional media based websites are: The material is easy to understand because the concepts presented are planned to facilitate students and systematically, learn faster and attractive so as to avoid boredom because it comes with pictures and video, interactive learning media can also be used as an alternative medium of learning independently.

5. Conclusion

Based on the formula, objectives, results, and discussion of this research can be concluded as follows:

1. Media *patisserie* learning-based website by including the subject matter expert in the excellent category.
2. Media *patisserie* according to media experts included in the excellent category.
3. Media *patisserie* web-based learning by the students included in both categories.

Based on these results, the authors suggest:

1. Students can use the website to be self-learning media Another
2. Lecture can develop websites for other subjects in order to be more effective learning process also efficiently

6. References

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