

**LEARNING MEDIA BASED E-LEARNING
MANAGEMENT
AT SMK NEGERI 1 PURBALINGGA**



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by

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ACCEPTANCE

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ABSTRACT

The objectives of the research are to describe (1) Characteristics of learning media making based e-learning at SMKN I Purbalingga; (2) Characteristics of learning media material based e-learning at SMKN I Purbalingga; (3) Characteristics of learning media usage based e-learning at SMKN I Purbalingga.

It is descriptive qualitative research and ethnography design which describes The management of learning media based e-learning at SMKN I Purbalingga. The informants are principal, vice principal, teachers, and students at *SMK Negeri 1 Purbalingga*. Techniques used in data collection are in-depth interview, documentation and observation. Data analysis of this research includes (1) data collection, (2) data reduction, (3) data display, and (4) conclusion.

The research results show that (1) There are involvement various parties who are competent and it is conducted programmatically on making learning media based on e-learning. It is assisted by the admin officers mastering IT. The more comprehensive making the learning media, the more facilitate students to get learning materials.(2) There are an open and closed learning media. The material is presented in an interesting material. The more quality materials used, the more easy to be understood by students.(3)The usage of learning media based e-learning consists of using the Internet and the LCD. The more varied use of learning media based e-learning, the achievement of learning goals will be better.

Keywords: *productive subjects learning, curriculum, learning model, learning interaction.*

INTRODUCTION

Background

Education is a process of improving, repairing, changing, knowledge, skill, attitude and behavior of someone or group of people in order to make human more intelligence through teaching and learning activities (Zainuddin, 2008: 1).

The development of information technology in recent years is very high,

so it changes the society paradigm in searching and finding information which is no longer limited to the information from newspaper, audio visual and electronic, but also from other resources such as internet (Hasbullah, 2008: 2).

Basically, education is a process of communication and information (Widiyanto, 2007: 1). The communication and information process occurs from educators to learners which contains of some education information so it created an idea about e-learning.

E-learning is a kind of teaching and learning that deliver the teaching materials to students using internet, intranet or other computer network (Anonim, 2008: 2). E-learning is very potential to make the learning process more effective because of the students' opportunity to interact with teachers, friends, and learning materials are wide open (Anonim, 2010: 1).

Based on the above background, the focus of this research is about characteristic of learning media based e-learning management at SMK Negeri 1 Purbalingga. The focus consists of three sub focuses, namely: (1) What are characteristics of learning media making based e-learning ? (2) What are characteristics of learning media material based e-learning ? (3) What are characteristics of learning media usage based e-learning at SMK Negeri 1 Purbalingga ?

These research objective are: (1) To describe characteristics of learning media making based e-learning at SMK Negeri 1 Purbalingga; (2) To describe characteristics of learning media based e-learning at SMK Negeri 1 Purbalingga; (3) To describe characteristics of learning media usage at SMK Negeri 1 Purbalingga.

THEORY

Learning Media

The word of media is from the Latin and as the plural word of medium which means the intermediary or the introduction (Djamarah, 2002: 136).

The instructional media is defined as anything that can be used to distribute message or contents of material, stimulate thought, feeling, concerns,

and students' ability so can encourage the teaching and learning process (Ibrahim and Syaodih, 2003: 112).

In learning, the media has a contribution to improve the quality and quantity of learning process. According to Kemp (in Uno, 2008b: 116) described a contribution number of media in a learning activity are (a) the presentation of teaching materials become more standardized, (b) learning activities become more attractive, (c) learning activities can be more interactive; (d) the time needed for learning can be reduced, (e) the quality of learning can be enhanced; (f) learning can be served where and at any time in accordance with the desired (g) increase the positive nature of the learner and the learning process becomes stronger or better and (h) gives a positive value for teachers.

Viewing from the nature, the media is divided into two.

- a. Auditory media, i.e. the media that only can be heard, or only has sound elements such as radio and voice recording (Sanjaya, 2008: 171).
- b. Visual media, i.e. the media which only can be heard, does not contain elements of sound (Sanjaya, 2008: 171).

Learning media of e-learning

In e-learning site wikipedia, explained that e-learning is a general terminology used to show a learning activity where the infrastructure or students are separated by space and time connected by online technology (Aunurrahman, 2009: 232).

There are three kinds of learning media based e-learning, namely Adaptive Learning Theory, suggests that students enter the learning process in the achievement and experience of different stages (Aunurrahman, 2009: 233); Preferred modality Theory, suggests that students have different learning modality tendency (Aunurrahman, 2009: 234); Cognitive Flexibility Theory, suggests that an area can be studied more deeply and more effectively when students use the learning process by non-linear (Aunurrahman, 2009: 234).

Previous Research

Research conducted by Sofany (2007) with a study entitled "*XML and Databases for E-Learning Applications*". Name of the Journal is the Conference ICL. This research examined about the application in e-learning. This research explained about the relationship between the relational database and XML and the potential enable the technology to support e-learning and also discuss about how the relational database and XML are appropriate and briefly describe their implication in developing e-learning system. This research introduced e-learning model and the comparison between four VLE systems as the example of developing new methodology.

Research conducted by Rego (2010) entitled "*Metadata-Driven Knowledge Management and Web-Based Learning Information Systems towards Web / E-Learning 3.0*". This research is a qualitative research discussed about the use of e-learning media. The result of this research stated that the main purpose of e-learning system is to provide a modulator system and extensible with the adaptive and knowledge management capabilities for students and teachers. The metadata is used to fulfill the requirements such as reusability, interoperability and multipurpose. The system provides authoring tools to define learning methods with adaptive characteristics, and tools to create a program that enables users to different roles, promoting several types of collaborative learning and group. It is also equipped with tools to take, import and evaluate learning. Metadata of management and evaluation have an important role in order to get the best results in learning and teaching process.

Research conducted by Koohang (2009) entitled "*E-Learning and Constructivism: From Theory to Application*". Name of the journal is *Interdisciplinary Journal of E-Learning and Learning Objects*. This research is a qualitative research that presents a centered-learning model to design e-learning. This research is based on the constructivist learning theory. The model includes two categories of learning design elements (consisting of the basic design and collaborative elements) and elements of learning assessment (self-assessment, team assessment, and facilitators-assessment). Application of the model is shown by some examples. The factual situation use the model is an e- learning course

presented to demonstrate the application of model in the real e-learning environment.

Research conducted by Trinidad (2005) entitled “*Constructive solutions: Improving Teaching and Learning in e-Learning Environments*”. Name of the journal is the *International Journal of Educations*. This research is a qualitative research. This research confirmed that e-learning help in learning activity. Data collected discussed about the support needed by educators with developing and teaching in e-learning environment as a method to improve the quality of e-learning environment through constructive solution.

Research conducted by Robert (2009) entitled “*Comparison of Different Machine Learning Algorithms for the Initialization of Student Knowledge Level in a Learner Model-Based Adaptive E-Learning System*”. Name of the journal is the *International Journal of Computing and ICT Research*. This research is a quantitative research. The result of this research indicated that the web-based learning system gives students the freedom to determine the learning objectives. This system supports students in constructing their own knowledge to solve problems. But in the absence of the instructor, students often need to be supported as they learn in a way tailored to a particular student.

RESEARCH METHOD

Kind of this research was a qualitative research. It is a research procedure creating descriptive data in the form of writing on people or people’s words and their appear behavior (Harsono, 2011: 33)

The design of this research was ethnography. It is an effort to observe the meanings of events that happen to people that want to be understood. (Spradley, 2007: 6). According to Mantja (in Harsono, 2008: 156), the educational ethnography is more refers to apart or all educational process, in this regard is about the management of e-learning media at SMK Negeri 1 Purbalingga.

This research was conducted at SMK Negeri 1 Purbalingga. The researcher deliberately took the setting at this school because it is one of the Pioneering of International Standard School in Purbalingga Regency.

In order to get the valid and reliable data, the researcher went to the location directly. The presence of the researcher was done in three months to find data about the management of e-learning media at SMK Negeri 1 Purbalingga. Therefore, according to Spradley (in Harsono, 2008:158) the researcher position is as a research instrument and student.

According to Harsono (2008: 159), the source of qualitative research data in the form of words and action, and the rest is documents. Data used in this research was data about the management of learning media based e-learning at SMK Negeri 1 Purbalingga.

Lofland (in Moleong, 2006: 157). The main data sources in qualitative research is that words and actions, the rest is extra data such as documents and others.

According to Websters (in Spradley, 2007: 39), the informant is a native speaker who speaks to repeat words, phrases, and sentences in the language as an imitation model and information sources. The informants in this research were the principal, teacher, and students of SMK Negeri 1 Purbalinga.

According to Mantja (in Harsono, 2008: 162), in-depth interview is a purposeful conversation that aim to collect ethnographic information. Data that want to be found from this research were about the management of e-learning media at SMK Negeri 1 Purbalingga.

Documentation is done to obtain data which can not be obtained from interview and observation. The document includes the profile of school, the school programs, organization structure and so on.

Data Collection was done to get data in the form of document or records about the management of e-learning media at SMK Negeri 1 Purbalingga.

Data analysis is the systematic testing of something to determine its parts, the relationship between assessment, and its relationship to the totality (Mantja, 2008: 83). Data analysis is done along with collecting data then it is continued after collecting data is finished. Analysis of data includes the activity to organize, choose, and arrange data into units, present it, look for the pattern, and find the important thing and what is studied.

The validity of data that is done through triangulation is through observing the teachers' performance and students. According to Moleong (2006: 330) triangulation is a data checking by utilizing something else. According to Harsono (2011: 36), to test whether the data are valid or not, we usually used the method of triangulation that includes the source triangulation, method triangulation, confirmation, and dependability.

DESCRIPTION AND FINDING

Learning Media Making Based E-Learning at SMK Negeri 1 Purbalingga has characteristics that based on the result of interview that was conducted by the researcher with some informants, known that the utilization of e-learning media is one implementation of the government policy to the International-standard pioneer schools.

One of learning media based e-learning at SMK Negeri 1 Purbalingga is in the form of own Web site that is accessed by the school's citizens. For the clearly explanation about the process of making the eLearning-based instructional media was expressed by Sukanto, the Principal of SMK Negeri 1 Purbalingga as follows.

"Making eLearning-based instructional media at SMK Negeri 1 Purbalingga involves a few steps, namely:

- a. The principal through the vice principal of the curriculum and facilities areas prepare the concept of eLearning that will be applied.
- b. Appoint the administrative officers who are master in IT technique to prepare programs that will be done.
- c. Prepare the facilities needed.
- d. The administrative officers prepare the school's site and programs used to e-learning media.
- e. Hold a briefing / training for teachers in order to make them able to adapt to the e-learning media and mastering it to be used as an instructional media for student.

- f. Teachers make preparations in accordance with eLearning concept.
- g. Teachers upload the material already prepared into e-learning site owned by schools

Based on the above data, known that in making learning media based e-learning involves the principal, vice principal of curriculum, IT experts, and teachers. The first stage is conducted through coordination meeting to determine e-learning concept that will be implemented, and steps that will be done in learning media making based e-learning.

The next step of learning media making based e-learning is to appoint the administrative officers who are master in IT technique to prepare programs that will be done. In this case the officers appointed are ICT teachers who have technical capability in the IT. In addition to empowering the existing human resources, it is also more effective and efficient in conducting coordination of learning media making based e-learning.

Based on the observation conducted by the researcher can be informed that the next step of learning media making based e-learning is to prepare the facilities needed. On the stage of preparing the infrastructure needed, the school determines several things needed in learning media making based e-learning. The facilities required include (a) the ready human resources (school personnel, which master on IT), (b) supporting facilities such as computer servers, other computers that are used by teacher and student, an internet connection, LCD projector, etc., (c) funds for operational activities such as training and provision of additional facilities.

The next step after appointing the administrative officers, the officers prepare the school site and programs that are used to e-learning media. In its implementation, the decisions taken in making site and programs that will be used are confirmed, coordinated, and approved in advance by the school. In this stage, the administrative officers make a domain that has been registered in the Ministry of Communication and Information first, then determine the school data and information that include the school's profile, school's vision and mission, school's

activity agenda, news about the school, the contents related to the learning material, and completeness of the data (database).

Based on observations conducted by the researcher can be informed that the next step of making e-learning media is to provide training or briefing to teachers in order to make them able to adapt to the e-learning media and mastering it to be used as an instructional media for student.

After providing training to some teachers, then teachers make teaching preparation in accordance with e-learning concept. The process of learning media making based e-learning is started by determining of theme or learning material, then arrange the material in the form of soft file in word or power point, and upload it to the school site. The equipment needed include a computer server, a computer user, internet network, website creation software, LCD, syllabus, preparation of teacher-made learning.

Learning Media Material Based E-Learning at SMK Negeri 1 Purbalingga has characteristics that based on the observation conducted by the researcher can be described that the materials of learning media based e-learning are presented through the school site, blog, and using LCD media. For learning media based e-learning through the school site, the materials uploaded in the school site are in word or power point with pictures, graphs, or charts.

The materials of learning media based e-learning are in the form of learning materials or module or assignments and communications using computer and internet. The materials are uploaded through the school site, blog, and LCD media. The material provided in the form of soft file in word or power point and completed with picture, graphs, or charts. The time needed to prepare the materials is influenced by the degree of difficulty of the learning materials.

The learning materials using learning media based e-learning are prepared by teachers using relevant learning resources. The learning materials are obtained through relevant materials and references such as CD, newspaper, internet, and so on.

Based on the observation conducted by the researcher can be described that the materials of learning media based e-learning are largely only for users

who are citizens of SMK Negeri 1 Purbalingga. It can be seen from the instructional media in the form of e-learning website of SMK Negeri 1 Purbalingga, where every user who entered must log in first. In the same link is available for guest user, but almost all the learning materials can not be seen except by the users from the school.

Meanwhile, based on interviews with some informants in SMK Negeri 1 Purbalingga knows that the materials of learning media based e-learning are in the form of website and do not open source. The learning materials uploaded in the school website can only be accessed by the school's citizens especially students.

The researcher continued the observation on the materials learning media based e-learning which are uploaded through blog. It can be informed that other than through the school website, the materials also given by teachers through their own blogs. The materials in blog are open sources materials.

Learning Media Usage Based E-Learning at Negeri 1 Purbalingga has characteristics that based on the observation conducted by the researcher, can be described that learning media based e-learning is a delivery of material or information via internet and computer. The instructional media via internet is delivered through school's website, and teachers' blogs. While via computer, use LCD media.

In using learning media based e-learning via internet, the material can be accessed anywhere and anytime by students through the school's website. To download the material, teachers give code or key of the material. The material uploaded can only be downloaded by the school's citizens or students who know the key, while for the guests only can access profile menu or activities held by the school.

To use internet as learning media via website, students must register by filling out the available data on the menu. After becoming a member, students must also know the key or code of the material's files from teachers to download or copy it. The school's citizens or people outside of the school can be the members, only the facilities the got will be different especially about learning media material based e-learning.

Meanwhile, learning media based e-learning in the form of teachers' blogs can be accessed by anyone without having to become a member first.

The next activity in the usage of learning media based e-learning is the students send their tasks that have been done via email. Students can send the tasks anytime and anywhere based on the provision and time set by teachers. The tasks sent in the form of soft file.

Based on the next observation conducted by the researcher can be informed that LCD also is used to present materials. Materials are down loaded from site school or teacher blog and presented via LCD. It is more focused on teacher because students can only watch the material and listen teacher's explanation.

The successful use of learning media based e-learning is not far for teachers' role and ability. In using of learning media based e-learning, teachers are as the expert. Teachers have the ability to operate computer with some programs mastered, skill to open internet network and ready to do e-learning.

Nevertheless, the facilities are still lacking especially for students and the internet signal need to be repaired. The obstacles faced in using of learning media based e-learning namely (a) incomplete facilities, and overcome by the gradual fulfillment of the means; (b) the ability of teachers which is not evenly related to IT and overcome by training that still continue to be done; (c) unstable internet signal in the classroom, overcome by increasing the internet signal amplification in the classrooms.

DISCUSSION AND PROPOSITION

Learning Media Making Based E-Learning at SMK Negeri 1 Purbalingga has characteristics that can be compared with research conducted by Rego (2010) entitled *"Metadata-Driven Knowledge Management and Web-Based Learning Information Systems towards Web / E-Learning 3.0"*. This research is a qualitative research discussed about the use of e-learning media. The result of this research stated that the main purpose of e-learning system is to provide a modulator system and extensible with the adaptive and knowledge management capability for

students and teachers. The metadata is used to fulfill the requirements such as reusability, interoperability and multipurpose.

The system provides authoring tools to define learning methods with adaptive characteristics, and tools to create a program that enables users to different roles, promoting several types of collaborative learning and group. It is also equipped with tools to take, import and evaluate learning. Metadata of management and evaluation have an important role in order to get the best results in learning and teaching process.

Compared with the previous study, in this research known that the creation of learning media based e-learning involves a few steps, including: The principal through the vice principal of the curriculum and facilities areas prepare the concept of e-learning that will be applied.

- a. Appoint the administrative officers who are master in IT technique to prepare programs that will be done.
- b. Prepare the facilities needed.
- c. The administrative officers prepare the school's site and programs used to e-learning media.
- d. Hold a briefing / training for teachers in order to make them able to adapt to the e-learning media and mastering it to be used as an instructional media for student.
- e. Teachers make preparations in accordance with e-learning concept.
- f. Teachers upload the material already prepared into e-learning site owned by schools

Research conducted by Koohang (2009) entitled "*E-Learning and Constructivism: From Theory to Application*". Name of the journal is *Interdisciplinary Journal of E-Learning and Learning Objects*. This research is a qualitative research that presents a centered-learning model to design e-learning. This research is based on the constructivist learning theory. The model includes two categories of learning design elements (consisting of the basic design and collaborative elements) and elements of learning assessment (self-assessment, team assessment, and facilitators-assessment). Application of the model is shown

by some examples. The factual situation use the model is an e-learning course presented to demonstrate the application of model in the real e-learning environment.

Compared with the previous study, in this research known that in learning media making based e-learning is to appoint the administrative officers who are master in IT technique to prepare programs that will be done. In this case the officers appointed are ICT teachers who have technical capability in the IT. In addition to empowering the existing human resources, it is also more effective and efficient in conducting coordination of learning media using based e-learning. The facilities required include (a) the ready human resources (school personnel, which master on IT), (b) supporting facilities such as computer servers, other computers that are used by teacher and student, an internet connection, LCD projector, etc., (c) funds for operational activities such as training and provision of additional facilities.

The creation of site and programs that will be used submitted to the admin officers. In its implementation, the decisions taken in making site and programs that will be used are confirmed, coordinated, and approved in advance by the school. In this stage, the administrative officers make a domain that has been registered in the Ministry of Communication and Information first, then determine the school data and information that include the school's profile, school's vision and mission, school's activity agenda, news about the school, the contents related to the learning material, and completeness of the data (database).

School holds training or briefing to teachers in order to make them able to adapt to the eLearning media and mastering it to be used as an instructional media for student. The briefing is done by the expert from outside the school. Training conducted independently and sustainably.

The process of learning media making based e-learning is started by determining of theme or learning material, then arrange the material in the form of soft file in word or power point, and upload it to the school site. the equipment needed include a computer server, a computer user, internet network, website creation software, LCD, syllabus, preparation of teacher-made learning.

Learning Media Material Based E-Learning at SMK Negeri 1 Purbalingga has characteristics that can be compared with research conducted by Sofany (2007) with a study entitled "*XML and Databases for E-Learning Applications*". Name of the Journal is the Conference ICL. This research examined about the application in e-learning. This research explained about the relationship between the relational database and XML and the potential enable the technology to support e-learning and also discuss about how the relational database and XML are appropriate and briefly describe their implication in developing e-learning system. This research introduced e-learning model and the comparison between four VLE systems as the example of developing new methodology.

Compared with the previous study, in this research is known that the materials of learning media based e-learning are in the form of learning materials or module or assignments and communications using computer and internet. The materials are uploaded through the school site, blog, and LCD media. The material provided in the form of soft file in word or power point and completed with picture, graphs, or charts. The time needed to prepare the materials is influenced by the degree of difficulty of the learning materials.

The materials of learning media based e-learning are in the form of website and do not open source. The learning materials uploaded in the school website can only be accessed by the school's citizens especially students. Any material uploaded has own code or key that only known by teachers, administrative officers, and students. One of media based learning materials is the presentation of information and instructional material through a blog that is open source.

The materials of learning media based e-learning through LCD can be given in a soft file either got from the school website or compiled by the teachers as the summary of materials uploaded in internet.

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Initialization of Student Knowledge Level in a Learner Model-Based Adaptive E-Learning System". Name of the journal is the *International Journal of Computing and ICT Research*. This research is a quantitative research. The result of this research indicated that the web-based learning system gives students the freedom to determine the learning objectives. This system supports students in constructing their own knowledge to solve problems. But in the absence of the instructor, students often need to be supported as they learn in a way tailored to a particular student.

Compared with the previous studies, in this research known that in using learning media based e-learning via internet, the material can be accessed anywhere and anytime by students through the school's website. To download the material, teachers give code or key of the material. The material uploaded can only be downloaded by the school's citizens or students who know the key, while for the guests only can access profile menu or activities held by the school.

In addition to using website, the learning material can be given using teachers' blogs. This media is easier to be accessed than the school's website.

Research conducted by Trinidad (2005) entitled "*Constructive solutions: Improving Teaching and Learning in e-Learning Environments*". Name of the journal is the *International Journal of Educations*. This research is a qualitative research. This research confirmed that e-learning help in learning activity. Data collected discussed about the support needed by educators with developing and teaching in e-learning environment as a method to improve the quality of e-learning environment through constructive solution.

Compared with the previous study, in this research known that one of the activities learning media based e-learning is the students send their tasks via teacher's email. Students can send the tasks anytime and anywhere based on the provision and time set by teachers. The tasks sent in the form of soft file.

The other use of learning media based e-learning is learning with LCD. Materials are up loaded from school website and teacher blog then presented via LCD.

Theory of the result

Making of learning media based e-learning involving various parties who are competent and it is conducted programmatically. It is assisted by the admin officers mastering IT. The more comprehensive making the learning media, the more facilitate students to get learning materials.

There are an open and closed instructional media. The material is presented in an interesting material. The more quality materials used, the more easy to be understood by students.

The use of instructional media consists of using the Internet and the LCD. The more varied usage of learning media based e-learning, the achievement of learning goals will be better.

CLOSING

Conclusion

The making of learning media based e-learning is started by coordination meeting conducted by the principal, vice principal of curriculum, and vice principal of infrastructure to discuss about preparing eLearning concept that will be used. The Principal appoint officers (admin) who are technically mastered the field of IT to prepare programs to be held. In learning media making based e-learning, the school prepares the facilities needed. The admin officers make domain that has been registered in the Ministry of Communication and Information (Depkominfo). In making the media along with training or briefing to teachers in order to make them able to adapt to the e-learning media and mastering it to be used as an instructional media for student. Teachers make teaching preparations appropriate with eLearning concept then upload it to eLearning site owned by school.

The materials of learning media based e-learning are in the form of learning materials or module or assignments and communications using computer and internet. The materials are uploaded through the school's site, blog, and LCD media. The material provided in the form of soft file in word or power point and completed with picture, graphs, or charts. The materials of learning media based

e-learning at SMK Negeri 1 Purbalingga are in the form of website and do not open source.

The usage of learning media based e-learning via internet, the material can be accessed anywhere and anytime by students through the school's website. To download the material, teachers give code or key of the material. The material uploaded can only be downloaded by the school's citizens or students who know the key. The guests only can access profile menu or activities held by the school. The use of learning media based e-learning is also done with LCD. The obstacles faced in using eLearning-based instructional media are the teachers' ability which is not evenly related to IT and overcome by training that still continue to be done and unstable internet signal in the classroom, overcome by increasing the internet signal amplification.

Implication

If we want students are easy to get learning materials, making of learning media based e-learning involves some parties who are competent and done it programmatically. If we want students are easy to understand the materials, the materials are interesting and in open and closed materials. If we want the learning goals can be achieved well, the using of instructional media must be varied, namely via internet and LCD.

Recomendation

1. For the principal, the obstacles faced in using learning media based e-learning such as the ability of teachers which is not evenly should be solved by increasing teachers' professionalism improvement activity.
2. For teachers, should improve the ability in using technology with joining some training organized by the school.
3. For students, can maximize the use of learning media based e-learning to improve their learning outcomes and their ability to operate computers and internet.

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