Information System Design E-Assignment in High School to Increase The Effectiveness of Learning

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Abstract. High School aims to create graduates who are qualified and have competitiveness in entering the lecture bench. To achieve these objectives the students are obliged to follow the learning process for 3 years. During the learning process the teachers give assignments to students. This activity is performed to determine whether the material presented can be well understood or not. In the process of granting and collection tasks are still done manually. This certainly raises difficulties between teacher-student and become less effective. Thus was designed an information system E-assignment. The method used in this system is a method of SDLC (System Development Life Cycle). This system provides services to manage and maintain the data properly. In addition to this system easy to provide teachers with the task quickly and can be done anytime and anywhere. The end result of making this system in the form of a website, which in turn can increase the effectiveness of learning in high school.

1. Introduction

High School (SMA) is a school that was founded in order to create high quality graduates and have competitiveness in entering the lecture bench. To achieve these objectives the students are obliged to follow the learning process for three years in high school.

According Rustaman in Abi Krida Prastya[1], "The learning process is an activity between teacher-student interaction and reciprocal communication that takes place in an educational situation for achieving the learning objectives". During this learning process takes place the teacher will give exercises or tasks to determine whether the material presented can be well understood or not. In the process of granting and collection duties in high school is still done manually. The process of assigning the task is still manually means, namely the provision of the task is still done orally or in writing. Sometimes with this activity the teacher or pupil could be forgotten if there is an assigned
task, especially if the teacher is unable to attend the delivery of the tasks will be represented by teachers picket or class president. From these events usually delivery tasks can not be communicated clearly so you need to contact the teacher's back.

In the collection process is still manual tasks. Where students make their task into a book each task and give directly to the teacher concerned. It would be difficult if the teacher or the student was unable to attend so that there will be a variety of problems. Because the task of collecting the lessons are still using books, sometimes there are books missing student assignments resulting concerned students are not getting value and should make previous tasks. By performing tasks that still use handwriting, it is inconvenient or correcting the teacher to read his writings. Another problem that occurs if time had passed the task of collecting the given time limit. The disciples could still be collected about the task in a way quietly slipped into the teacher's desk.

E-assignment information system is a system that provides the service of assignment and collection assignments quickly and can be accessed anywhere and anytime. The system will be designed using the programming language PHP with CI framework. The use of this programming language will input data into MySQL, to display information about the assignment of teachers and pupils display information that has been collecting duties[2]. With this system the teacher can display the value of students in assignments in PDF form[3].

Based on this it needed a website application that can provide services for the provision of tasks that can be done by teachers and collection tasks quickly and can be accessed anytime and anywhere.

2. Method
This research was conducted at SMA 7 Painan. This school is an excellent school in the South Coast. The purpose of the establishment of the School excels is in order to create high quality graduates and have competitiveness in lectures. In completing this study, researchers needed data associated with the application to be built.

3. Result And Discussion
In building the information system e-assignment author uses the PHP programming language with CI framework. PHP is an acronym for Hypertext Preprocessor, is a programming language-based code (script) that is used to process the data and send it back to the web browser into HTML code[4].

According to Ward [5] "framework is a collection of commands or functions that form the basis of certain rules and interact with each other so that in making web applications, we must follow the rules of the framework". and by Betha Sidik[6], "CI or CodeIgniter is a framework application development using PHP, a framework to work or create a program using PHP more systematic. Programming does not need to create a program from scratch as CI provides a set of libraries that are needed to complete the work public, using interfaces and simple logic structure for accessing library ". According to Rahmat Hidayat[7], "the website or sites can be defined as a collection of pages that are used to display text information, still images or motion, animation, sound, or a combination of these, whether they are static or dynamic form a series of interconnected buildings, each of which is connected to the networks of the page. The relationship between one web page to another web page that called Hyperlink, while the text which is used as a media liaison called Hypertext ".

3.1. Interface Implementation
This interface display early to determine the user in running the system. Admin and teachers select button teachers and students selecting the students. This is done so that the user can log into the system according to their access rights. Here is the implementation of the system user interface.
Once the user selects according to their access rights, users will be redirected to the login page to log into the system. On the login page the user is prompted to enter a user name and password. Here is the implementation of the login screen.

Once admin or teacher successful login, the user entered the home page. On the veranda admin and teachers will show the user the task that has been uploaded. Here's what the implementation of the veranda admin and teachers.
Figure 3. Implementation of the home display admin and teachers

Figure 4. Implementation of students' homepages

Figure 5. Implementation of student input display
Group to display the input that can be done by the admin and teachers, ie upload assignments and grade. Here's what the input upload assignments and grade.
In the student access page there is also an input page, which is the upload page of the answer. Following is the implementation of the upload answer.

**Figure 9.** Implementation of the view upload tasks

**Figure 10.** Implementation of the display give the value

**Figure 11.** Implementation upload to see the answer
4. Conclusion
Based on the earlier discussion of the design of information systems e-assignment conducted in SMAN 3 Painan, the authors conclude that the system is designed provide services to manage and maintain the data properly. In addition to the information system is easy to provide teachers with the task to his students and his students can access these tasks as well as gather their duties quickly and can be accessed anytime and anywhere. Previous mistakes often occur in the process of granting and collection tasks have been minimized. Besides, with the e-assignment system has been able to streamline the work of teachers, because without face to face, the teacher can convey assignments to the students and can immediately correct it without having to raise workbook that could have been lost.

References
[1] A. K. Prastya, “Proses Pembelajaran Musik Bagi Kelompok Band Just 4_U Di Sma Bopkri 1 Yogyakarta,” Univ. Negeri Yogyakarta. Retrieved From, 2012.
[2] W. Komputer, Panduan Belajar MySQL Database Server. MediaKita, 2010.
[3] I. Pratama and P. A. Eka, “Sistem Informasi dan Implementasinya,” Bandung Inform., 2014.
[4] W. J. S. Poerwadarminta, “Kamus Umum Bahasa Indonesia Edisi Ketiga (diolah kembali oleh Pusat Bahasa Departemen Pendidikan Nasional),” Jakarta: Balai Pustaka, 2003.
[5] V. Ward, S. Smith, A. House, and S. Hamer, “Exploring knowledge exchange: a useful framework for practice and policy,” Soc. Sci. Med., vol. 74, no. 3, pp. 297–304, 2012.
[6] B. Sidik, “Pemrograman web dengan PHP,” Bandung Inform., 2012.
[7] R. Hidayat, Cara praktis membangun website gratis. Elex Media Komputindo, 2010.