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Value Information System Design Web Based Academic At Triseta Education

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ABSTRACT

In the millennial era where technology is increasingly sophisticated, information systems are needed in the business world, both for internal and external parties. Information systems can provide valid data to make it easier for interested parties to know the condition of the company or business being run by the company. However, there are still some companies that still use simple (manual) information systems so that consumers and parents of students have to come to the location or place of study. Moving on from the problems above, the researcher aims to build a computerized academic value information system for checking, recording and reporting student grade data. In addition to being web-based, data information can be accessed at any time. This application uses XAMPP as a web server for system design and MySQL as a database. The design of the login menu which consists of the IT Section, supervisors and user/admin has separate access when opening the application so that program security is maintained. This system works to enter and store data, student assessment processes and student final grade reports so that it is easier to find out information on student grades that will be submitted by the school. Research has produced a value processing system that helps the work of administration and homeroom teachers and can make it easier for users to carry out value processing so that value management can be processed more efficiently and effectively, so that it can be directly accessed and value information can be conveyed properly.

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1. INTRODUCTION

The increasing use of technology as a form of information technology has changed the manual processing of information data to become automated. However, in terms of implementation, it will not be free from problems, such as the user does not understand how to operate the system so that the performance of the information system is not optimal as expected, and the system used is less than optimal in a company place, for example a small company but already using an existing information system. very good is not in accordance with the size of the company, it will result in the company incurring substantial costs. Conversely, a large company,

but the information system used is very simple so it will not meet the company's system requirements. The pros and cons of a technology system help us communicate and get work done quickly, effectively and efficiently. The role of technology in the world of education has a positive impact that shows a significant change to an information system. Especially web-based information can be used as a means of information and introductory media about education, both formal and non-formal to the wider community.

However, the use of information technology has not been utilized as effectively as possible in a Triseta Education tutoring training institution, Medan Johor, North Sumatra, still using a manual system to support daily operational activities, both in administration, attendance and assessment, and data backup processes so that it requires enough time to do these activities. The supervisor's activities in evaluating Triseta Education tutoring students still produce inaccurate data because there are still data that are repeated, not recorded, inaccurate, and miscalculated in the assessment. Besides that, The current system still uses paper media which is less supportive for the long term because the large number of students is based on the official program that students are interested in. Therefore, the data that is stored will be larger so that it will slow down the performance of the system to present information quickly and accurately. Another problem that arises is the search for data based on the highest score to determine the level of achievement of Try out scores per month based on official programs that Triseta Education test guidance students will be interested in. It will take quite a long time because the assessment system is still conventional. the data stored will be larger so that it will slow down the performance of the system to present information quickly and precisely. Another problem that arises is the search for data based on the highest score to determine the level of achievement of Try out scores per month based on official programs that Triseta Education test guidance students will be interested in. It will take quite a long time because the assessment system is still conventional. the data stored will be larger so that it will slow down the performance of the system to present information quickly and precisely. Another problem that arises is the search for data based on the highest score to determine the level of achievement of Try out scores per month based on official programs that Triseta Education test guidance students will be interested in. It will take quite a long time because the assessment system is still conventional.

2. METHODS

Data collection techniques used by the author in this study are:

a. Observation Method (Observation)
   Observation is a method of gathering information by direct observation or observation of the object of research, namely observing the try out process at the Triseta Education tutoring training institute.
b. Interview Method (Interview)
   It is a question and answer process directly with two or several people in collecting data and information by conducting interviews with the relevant agencies. In this case an interview was conducted with one of the teaching staff at the Triseta Education tutoring training institute.
c. Literature Study Method
   Collection of data sourced from various books as references and searches with internet media to obtain additional data in order to complete thesis writing.

3. RESULTS AND DISCUSSION

Running System Analysis

An on-going analysis is currently being carried out to evaluate and provide an overview of existing problem-solving and resolution plans. This system analysis intends to identify the problems that occur and the needs that are implemented so that improvements can be proposed for the better.

This Triseta Education training or tutoring institution is a non-formal education institution located on Jalan AH Nasution Komp. Metrolink Blok E no. 1-3, Medan, Johor, Medan, North Sumatra, so far they are still lagging behind in terms of the application of information system technology. The academic value information system that is currently running still uses the manual method, namely the creation and storage of data is still done in writing and the storage is still manual.

Data Processing Procedures

Based on research conducted by the author, data processing of student scores at Triseta Education is carried out using Microsoft Office and Microsoft Excel which are offline. One of them is still using assessment information in the form of reports containing values in each stage, this explains that the lack of a direct communication medium takes a long time. Students and parents/guardians to find out the latest academic information must come directly to Bimbel Triseta Education to ask their respective foster siblings or by looking at the announcement boards available at Triseta Education.

The following is an analysis of the running procedure:

1. Student data is given to the IT (Information Technology) section, the student data is recorded and archived and from the archive a participant data report is made for the student's parents.
2. From the student data archive, the data for each program is made into two copies as an archive.
3. for the preparation of lesson schedules the supervisor's data is given to IT (Information Technology), the administration of the teacher's data is recorded and archived from the supervising data archive is made for foster sibling data reports for parents. From the supervising data archive, it is made for the distribution of teaching tasks, for foster sibling data and for making lesson schedules.
4. The IT section provides value data to the foster siblings, then the foster siblings record the value data, the value data that has been recorded is then transferred to the report book, after that the value of the tryout report is corrected by the supervisor to ensure the accuracy of the student's grades.
5. Then the head of the operational services field schedules a meeting with the parents of the students/guardians with the foster siblings.

New System Review

System design is a very important thing after the analysis has been completed, because weaknesses can be identified so that with the development of a new system it is expected that existing constraints can be overcome. The data processing that will be proposed in this system is a web-based academic value information system process. In designing this system, it is described how a system is prepared to be built into an application program that is useful for its users. The alternatives used in the design of this system are document flowcharts and context diagrams which are one of the structured development tools.

Context Diagrams

The diagram is the scope of a system, namely the relationship between the system and the environment. This scope is determined by the magnitude of the influence of the data received and the information generated in this environment represented by outside entities, which describe entities that provide something to or from the system.

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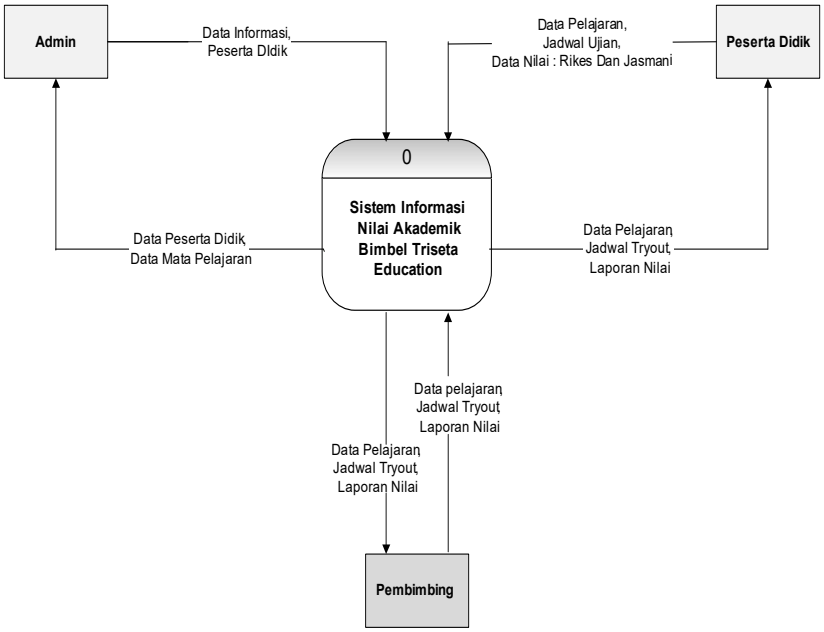

Figure 1 Context Diagram

1. Login view

The image below shows the login form in the student grade data collection application before running the username and password so that you can enter the admin.

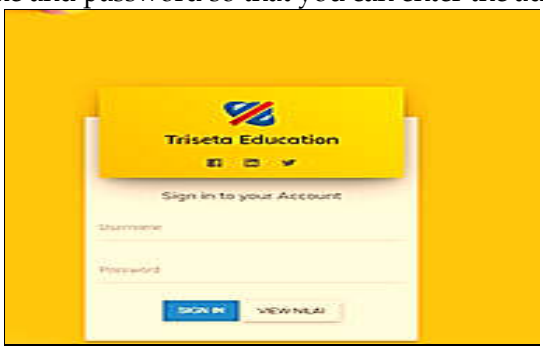

Figure 2 Login Form

2. Display of Student Data Pages

The image below is a display of value data in which the student data page is displayed.

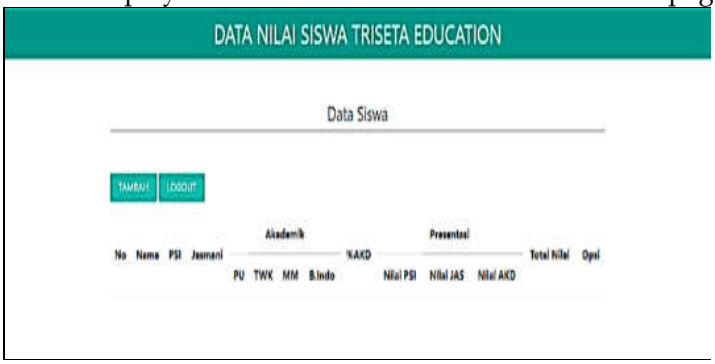

Figure 3 Student Data Pages

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3. Student Score Data Input Display

The image of this page is a display of the results of student scores which displays adding, logging out, editing and deleting grades.

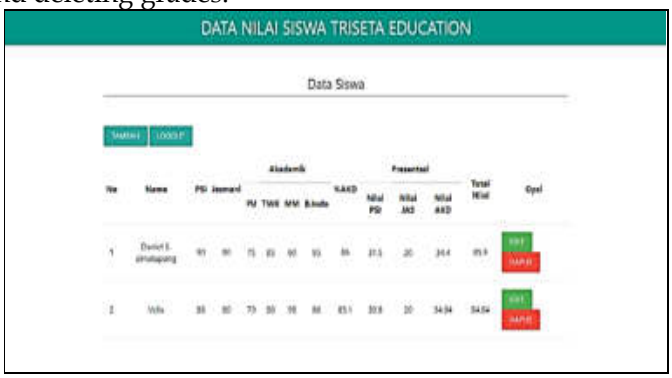

Figure 4 Student Score Input Page

4. Display Add student value data

On this page the admin can see the display for adding student value data, saving data and deleting.

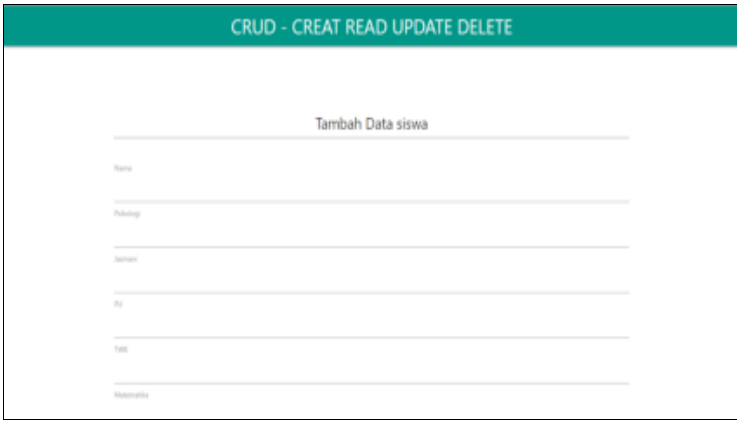

Figure 5 Additional Student Data Pages

5. Value Data Edit view

on this page the admin can see the display for editing student grades that will be updated and canceled.

Figure 6 Page of Editing Student Data Values

4. CONCLUSION

The design of this website-based media makes it easier for website access, both Triseta Education and general users, to obtain information on student grade data reporting at Triseta Education, as well as to make it easier for students to collect grades online. This website application that has been designed successfully displays information such as achievement of student scores, presentation scores shown to website visitors and is more efficient and effective which makes it easier for admins to report student grade data.

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