

The Development Of Data Processing Information System Web-Based Student Scores At Vocational High School SMK Negeri 2 In Ternate City North Maluku Province

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Abstract— At vocational high school SMK Negeri 2 Ternate, student's score is still processed conventionally; each subject teachers write students' score on a piece of paper and then submitted it to their homeroom teacher, and it will be written down in their report. Although it has been well organized, this way is not really optimal because it needs a long time and has many weaknesses. The purpose of this study was to develop an information system that can be used by SMK Negeri 2 Ternate in processing the students' score effectively. The methodology used was: field study, literature review, designing, developing, trials and implementation. The result of this study is expected to be the way in obtaining the accurate data, easing the process in finishing final project, and also developing the information system of students' score processing, and later can be used by SMK Negeri 2 Ternate effectively.

KEYWORDS: data processing of student's score, SMK Negeri 2 Ternate

1. BACKGROUND

SMK Negeri 2 Ternate is one of vocational high school in Ternate city of North Maluku province. This city inevitably should be able to compete with other schools. The education quality is really important matter in order to prove that school is able to give the best education for the students. The quality is not only measured by how teacher teach the students but also from the method used by the school for students.

The development of student achievement can be measured from the student's score. This score must be accurate can be accounted for by the students concerned. The student's score at SMK Negeri 2 Ternate is still treated in a conventional way; each subject teachers write students' score on a

piece of paper and then submitted it to their homeroom teacher, and it will be written down in their report. Therefore, school has trouble in processing the score. Although it has been well organized, this way is not optimal yet.

As a result, it is less efficient in searching student's score, update student's score, and recapitulate student's score and also the student's score is not well informed to parents and guardians. They do not know how far their child's achievement at school. Besides, this method is susceptible of various errors whether technical error or human error. Those errors can lose or ruin the file. Also, it can impact the process of student's assessment. (Source: Interview with teacher of KPPI Negeri 2 Ternate 2015)

If we take a look from human resources, SMK Negeri 2 Ternate has great ability to manage the system better and convey the information to public. Moreover, it has young administration staff and the facilities are also very supportive.

2. FORMULATION OF THE PROBLEM

1. SMK Negeri 2 Ternate does not have computerized system to manage student's score yet
2. In managing student's score, SMK Negeri 2 Ternate is still using conventional way in which each subject teachers write students' score on a piece of paper and then submitted it to their homeroom teacher

3. LIMITATION OF THE PROBLEM

1. Research was conducted at SMK Negeri 2 Ternate
2. The score processed was mid-term test score
3. The score of mid-term test, final semester, and practice vocational
4. The information system was web-based and can be accessed via internet

4. THEORETICAL BASIS

a. The Definition of Website

Website is a set of pages that is interrelated with other files. In website, there is a page called by home-page. Homepage is a first

Manuscript received Jul, 2017.

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page seen by the user when visiting certain website

b. The Definition of Information System

Information system is a system made by human that commonly has a set of components of computer-based and conventional that is created to gather, store, and manage the data also provide output information for the user.

c. The Definition of Analysis and Developing

The design of information system in developing a management of information system is interface design of the program in which a user will adapt quickly toward the program if the program is well structured.

d. The Definition of ERD (Entity Relationship Diagram)

It is a model that explains the relationship between data in a database based on perception that real word contains those objects.

e. The Definition Of Diagram Context

It is the pattern depiction that has function to display the interaction of information system with the surrounding where the system is placed.

f. The Definition of DFD

DataFlowDiagram is data of logical model or process made in detail that is better than diagram context; can be achieved by develop the diagram. The rest of genuine diagram is developed to a more detailed depiction that involves three until nine processes and shows the storage data and the new data flow in lower level.

g. The Definition of Internet

Internet is a set of network that connected with other networks in which the network becomes the connection to the global information.

h. The Definition of WebServer

Web Server is a place where you get web page and data that relate with the website you made so that it can be accessed and viewed by other people.

5. LITERATURE REVIEW

The result of the last research became the literature to solve the problem and do review toward the theories and method to face the similar problem.

6. CONCLUSIONS

- a. SMK already have information system to manage the students' score via web-based as a media to process and inform the score

- b. Student's score is stored directly in data base so that the data needed can be displayed anytime.

- c. Through this system, homeroom teacher is easier in obtaining the recapitulation students' score that would be written in students' rapport.

- d. Parents or guardian can control the students learning outcomes via information system of student's score processing

7. SUGGESTIONS

- a. For the future researcher, it is expected to develop better information system in processing student's score such as adding more features like the information of student's finance, student's absence that will support the means of complete information

- b. For school, it is expected to use this information system as the mean to help in processing students' score

- c. For public or parents/guardian, it is hoped to give critics and suggestions so that this system can be well developed later.

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*Studi Teknik Informatika Universitas
Surakarta. IJNS Accepted Paper, Indonesian
Journal on Networking and Security - ISSN:
2302-5700.*