Planning of the Web-based E-Raport Assessment System

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Abstract

In the world of information technology has changed the lifestyle in the aspect of our lives especially in the educational world. E-Raport is an academic information system used to input web-based student value data. The current value data input system is a benchmark for the creation of quality output and able to compete with other schools. One of the benchmarks that can be the competitiveness for other schools is the result of student learning assessments that are handled by each class. Problems that occur in the input of the value of Raport at SDN Sukanagara is currently still a manual that is the value of Raport recorded in the book Raport, so it takes a long time and a lot of energy needed. Research has the purpose of designing a value information system that facilitates the checking, recording and reporting of the computerized value of the students. Computerized Raport value reports can minimize errors in student data processing. This WEB based online raport is very easy data information and can be accessed anytime and anywhere, the system design works to insert and save value Report data and attendance and display info from school. The system uses data collection methods such as interviews, library studies, and system design, which are context diagrams, and prototypes. The information system of online Raport SDN Sukanagara is expected to be able to bring positive impact to the educational world, especially for SDN Sukanagara in the development of information technology applied in the world of education.

Keywords: Education, E-raport, Information system

1. Introduction

The information and communication technology has evolved very rapidly, one of these developments was the creation of a computer [1][2]. The purpose of this computer is to improve the quality of education in order to not be less competitive with large schools in Indonesia, especially abroad in general, in the event of education is required a computerized system in various requirements [3][4]. Information is the key to the success of a communication, without any information, communication will not be realized. Information is essential for human needs as to know the development of IT happening in the world [5][6]. In the era of education, IT or information and communication technology is made a reference value that must be denied to see the era of globalization with the competition of advanced technological advances [7][8].

Raport is a book of reports on study activities obtained by students in a school given every semester, the report contains academic values recorded in the book [9][10]. And E-Raport is an academic information system used to input the value data of the student who is web-based, which distinguishes E-raport, which can store student value data securely and will not be easily lost or distorted.

Currently at SDN Sukanagara, he still creates a report on the Raport value in writing, so it is possible that mistakes are made to write which results in rewriting and takes a very long and inefficient time [11][12]. With this problem, it is needed a system that provides ease in the processing and searching of student data and the value of student learning data to create a report of student Raport value and student grades at SDN Sukanagara is the design of a WEB-based Raport Online 2013 curriculum System [11]. The value-processing system of students can be done electronically so as to help teachers work to process the students ' final grades with faster, easier and more accurate performance[13][14]. The end of the semester is usually a lot of the task of accumulating values that accumulate, can be resolved by the value input of each teacher finished teaching. Even the timing of input values is limited, student grades engineering can also be addressed. In the parents ' side, they can find out the academic and non-academic development of children over time, this becomes a service to parents who are given access rights to view and monitor the development of the child thoroughly.

2. Research Method
2.1 Data Collection Methods
The research used by the authors is the collection of data required methods as follows :

2.1.1. Interview
Interviews is one of the methods used for designing on the system that is doing & answer to the problem that is being discussed, to get comprehensive information from the resource that is part of the education curriculum at SDN A. The results of the interviews are information on raport systems, subjects, student data, teacher data of subjects as well as class data. The goal in this interview is to find information on the system design program of the school Raport value.

2.1.2. Library Studies
The study of the literature is looking for references or theories required through books or scientific journals relating to the problem of system design of the Raport value-making system.

2.1.3. Literature Review
1. This research was conducted by Nyuda Resio Budiyarto in year 2016 under the title "Information Systems Raport Online SMA Negeri 1 Krembung" This research discusses the Online systems on value management to make it easier to create reports of raport values. SMA NEGERI 1 KREMBUNG is one of the high schools in the country that is addressed in Jl. Raya Krembung No. 02 Sidoarjo. Currently, SMA Negeri 1 Krembung about school data processing does not have a good information system. The purpose of this Online information system is to build an information system Raport online at SMAN 1 Krembung, providing information Raport value of students learning results of SMAN 1 Krembung, giving parents information quickly about His students at school [15].
2. This research was conducted by Hesty Puspita Sari1), Retno Muhartini2) in the year 2017 under the title "Application processing system values of Raport SDN Tanjunganom 2 District Tanjunganom" This research discusses the processing of value of Raport at SDN Tanjunganom 2 Nganjuk. For now it is not computerised. The purpose of this research is to develop an online value processing system. Data

processing efforts can be a more advanced change, for existing systems (Microsoft Excel). Application processing value of SDN Tanjunganom 2 District Tanjunganom Nganjuk District is an application that is processing the value of Raport K13 which has a component of subjects obtained by students of SDN Tanjunganom 2. This app was created using Microsoft Excel [16].
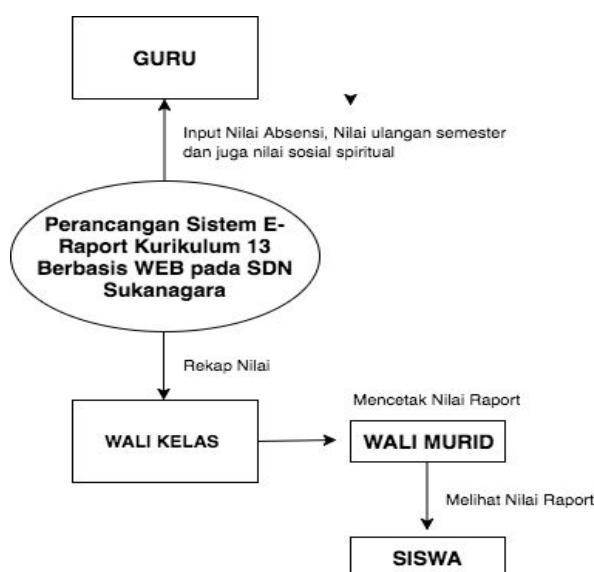
3. This research was conducted by Ana Husnul Khotimah, Siska Iriani in the year 2014 under the title "Information System of student value in Madrasah Tsanawiyah (Mts) Al Muhajirin Kalak Donorojo" This study discusses the information system Student assessment results in Madrasah Tsanawiyah (MTs) Al Muhajirin Kalak Donorojo, is currently still manual. Data storage uses the Raport book. In addition, the system is still a lot of shortcomings. The drawback is that the student value data is missing, the purpose of this research is the creation of information systems can be used for the assessment of student learning outcomes. Its benefits can facilitate the processing and retrieval of data [17].

4. The research was conducted by Bagas Hutomo Prakosa in the year 2017 with the title: "Design System Information processing value of WEB-based Raport Junior High case Study 1st Surakarta" This study discusses about system-based value processing information With the case study of SMP Negeri 1 Surakarta. This system is designed to be web-based information system to be able to change effective value processing system. The existence of this information system makes it easier for admins and teachers to process value processing in schools. The system is still not in accordance with the needs and has not been applied in SMP Negeri 1 Surakarta [18].

5. The research was conducted by Gilang Tri Agung Prasetyo in 2018 with the title: "Web-based school information design Raport system" This study discusses the processing of value data in schools that are done manually, resulting in Very long presentation of data. This research transforms the Value data processing system that helps teachers in the input of grades and makes it easier for students to view grades online. The research designed a Web-based Value data processing system using the PHP programming language and MySQL database [19].

6. This research was conducted by Yusuf Durachman under the title: "Web based academic Information system development (case study: SMA Muhammadiyah 7 Sawangan Depok) research on high School Muhammadiyah 7 Sawangan is an educational institution in charge of Addressing activities related to education, the main objective is to educate the life of the nation of Indonesia [20].

7. This research was conducted by Eki Puspitasari, Bambang Eka Purnama, Sukadi with the title: "INFORMATION PROCESSING SYSTEM for STUDENTS IN THE STATE Junior High School 3 KEBONAGUNG" research on SMPN 3 Kebonagung system processing value has not yet been integrated with the database. This system was created for the processing of raport about SMPN 3 Kebonagung, providing information to the parents about the value of subjects that the students can, the information processing system of Raport students is made using the NetBean programming language [21].

3. Findings
3.1 System Design Methods
3.1.1. Context Diagram

In designing the system use the Context Diagram to illustrate the process of documenting data.

3.1.2. Prototype

In addition to using the Context Diagram in the design of the system also use Prototype for a picture of a system that has been created using blueprint, so that the user has an overview of the system to be created. Using prototyping, accessing the system can create prototypes first before developing the actual system.
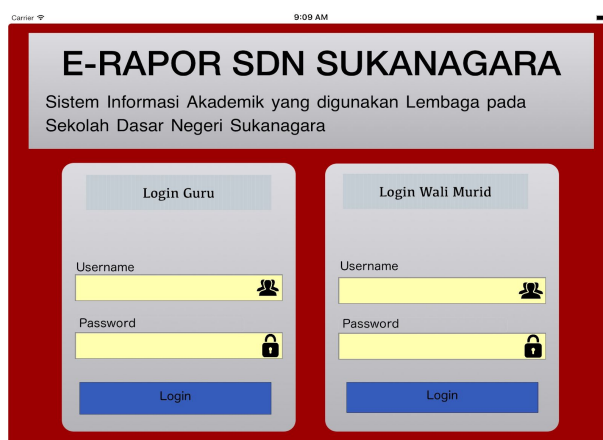

Figure 2: Login view

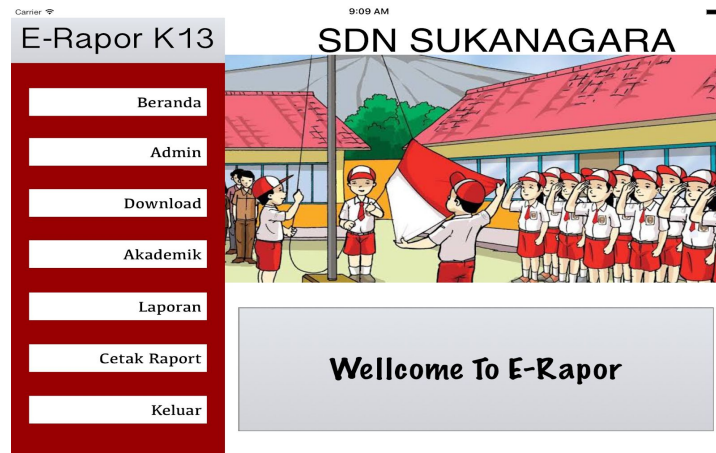Figure 2 shows an initial display on E-Raport which is the login view for teachers and guardians, to enter the E-Raport web, it is required to login first.

Figure 3: Dashboard Start screen

Gambar 3 menunjukan tampilan awal Dashboard yaitu berupa ucapan Selamat datang di web tersebut setelah user berhasil login.
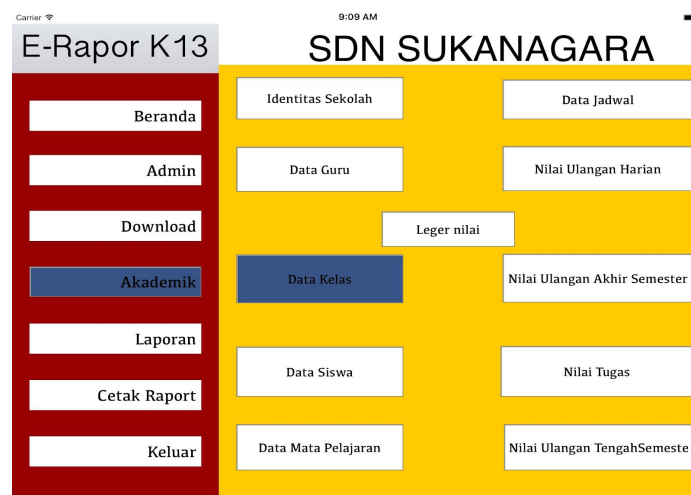

Figure 4: Display for class data input

Figure 4 shows that in order to input class data by the teachers, it is possible to see what the teacher has entered.

Figure 5: View to view a list of classes.

Figure 5 shows that there are several class options that will be input values, ranging from Class 1 to grade 6.

Figure 6: List view of class 2A students.

Figure 6 shows a complete list of class 2A students based on data obtained that will begin to input its value.

Figure 7: Student data input display.

Gambar 7 menunjukan berupa data siswa yang akan diinput nilainya terlebih dahulu yaitu berupa nilai nilai tugas harian sebelum disimpan.

Figure 8: Display of student value input results

Figure 8 shows the result of the value of the input data that has been successfully entered in the list of classes.
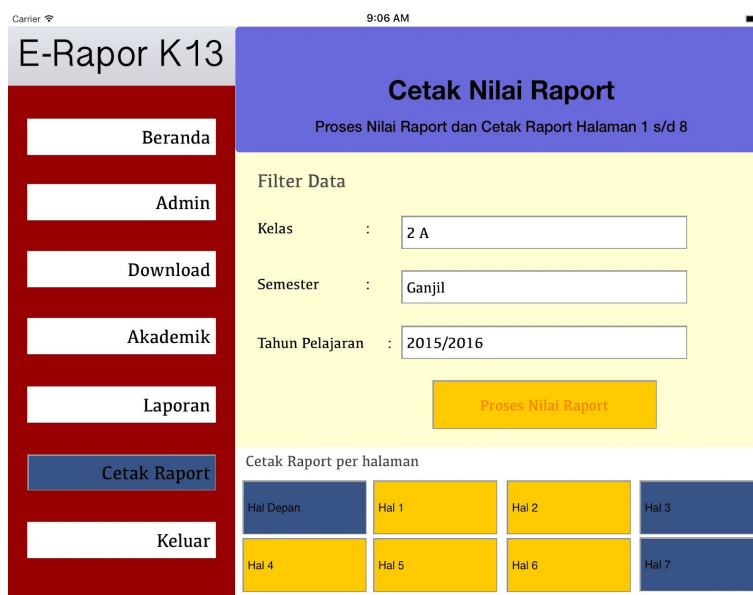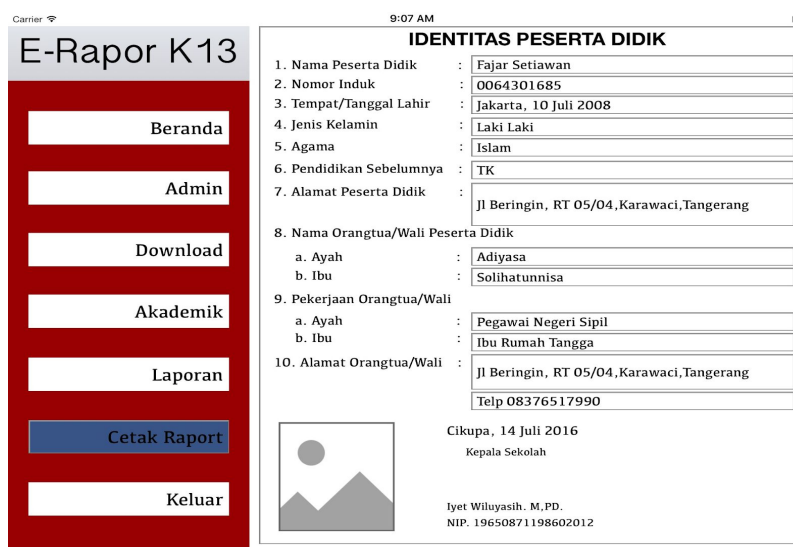
Figure 9: Student Raport print view

Figure 9 shows a view for printing raport students who show several pages in Raport that are front page, Page 3, and Page 7, parents can see and print the value of their children's raport by selecting classes and Each school year.

Gambar 10 : Tampilan hal depan raport

Figure 10 shows a front page view of Raport which is the identity of the student.
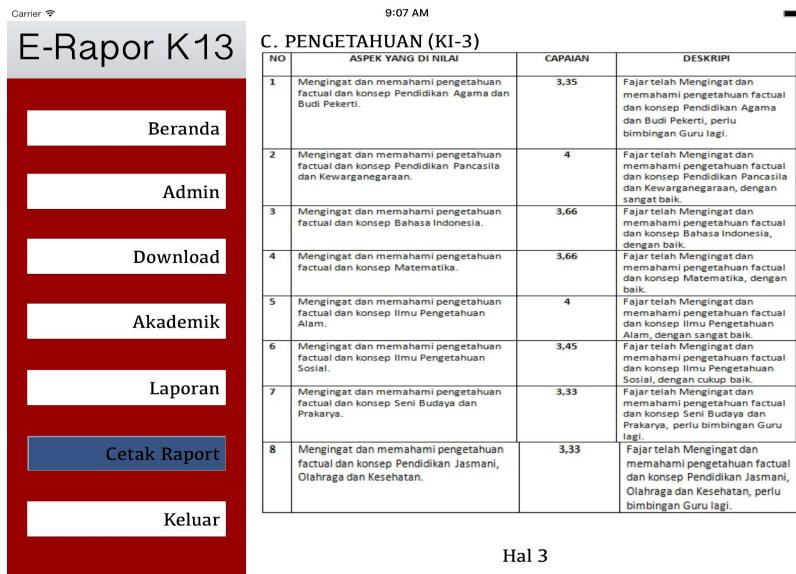
Figure 11: Display of thing 3 on Raport

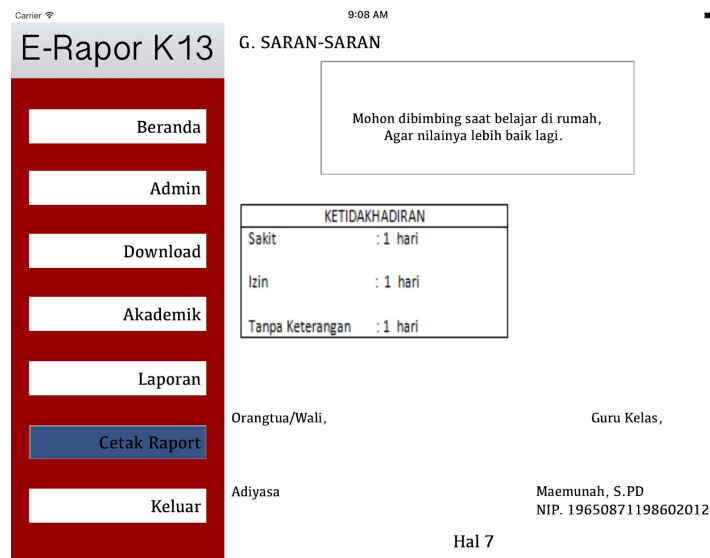Figure 11 shows the display on page 3 of the Raport showing the value of student knowledge.

Figure 12: The view of thing 7 on Raport

Figure 12 shows the display on page 7 that shows advice for students and students absence.

4. Conclusion

Based on the problem above, it can be concluded that this E-raport system makes it easy for the school and the parents. Facilities for the school that is input the value of students that can be entered after completion of teaching, teachers do not have to see the general ledger that makes the process of processing on the old and inefficient raport value, the ease for the parents is easy to See the child's value development and can be accessed anywhere and anytime.

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