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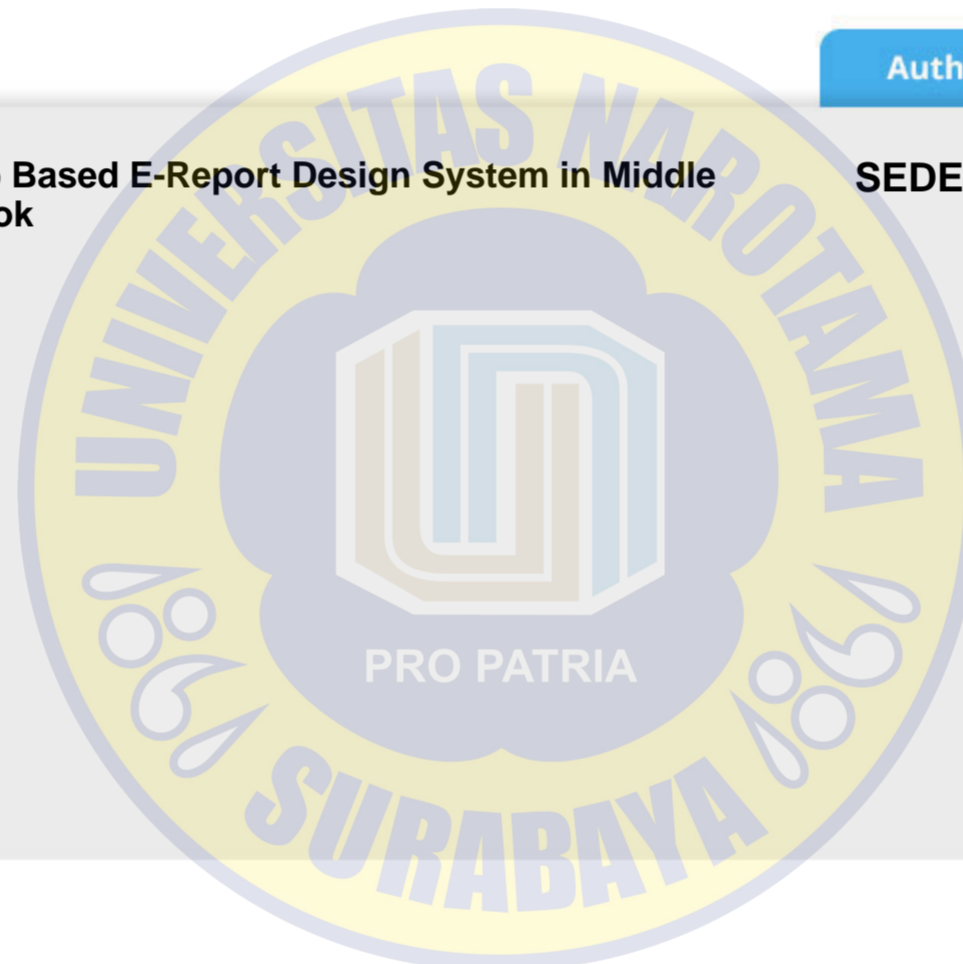
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Implementation Of a Web Based E-Report Design System in Middle School Citra Negara Depok

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Abstract

Processing student scores is a part of teaching and learning activities (KBM) in schools that play an important role in the teaching and learning process which is a tool for measuring student achievement. With good processing and management, value data processing will be easier, faster and more accurate. Processing that has been done manually can be overcome with a system that can help expedite the process of processing student grades. The Waterfall model has a process that flows systematically from one stage to another. These stages are analysis, design, coding, testing, maintenance and this application is built using PHP as the Server-Side Programming Language, MySQL as the database server and the CodeIgniter Framework. The results of the study used a computerized system so that e-report assessments could be accessed online properly and quickly at Citra Negara Middle School. That the e-report assessment information system can minimize the occurrence of errors in the manipulation of value data on students at Citra Negara Middle School and using the information system can produce or provide a sense of justice for Citra Negara Middle School students.

Keyword: E-Report System, Website, PHP, MySQL, Waterfall

1. Introduction

In the context of developing human resources, especially in the world of education, it is an excellent means and vehicle for developing human resources. Therefore, education needs to get more serious attention both by the government, families, and education managers in particular. With the rapid development of technology, educational facilities and infrastructure must also follow suit, one of which is the computerized media, namely the internet. With the internet where students and teachers can access information anytime and anywhere. Plus at this time the use of the internet, especially websites, is already familiar in the life of the wider community, for example the activity of processing student grades. The 2013 curriculum is a new curriculum that applies to the current education system where there is a lot of data as a parameter for student assessment (Huda & Siska, 2020). With so much data that must be processed, the teacher or homeroom teacher has difficulty due to the large number of reference values that must be entered manually in the Microsoft Excel application. In the use of Microsoft Excel, value processing is considered less effective, because the data is less structured. This causes frequent re-entry in the following semester, of course with the number of files increasing every semester. A good curriculum requires the support of a good, sustainable and planned information system (Sari & Muhartini, 2017). This is very supportive of school activities, considering that schools also need to store other data such as student data, classes, subjects and teacher biodata. Based on the effectiveness of its use, web-based information systems are the choice compared to other platforms. This is because web information systems have several advantages over desktop information systems (Yulianto & Atmaja, 2017). The advantage of a web information system is that it can be accessed from various devices, this certainly increases the effectiveness of teachers and homeroom teachers who only need to access through a web address in a web browser. Processing student grades is one part of teaching and learning activities (KBM) in schools, which plays an important role in teaching and learning which is a tool for measuring

student achievement. With good processing and management, value data processing will be easier, faster and more accurate. Processing that has been done manually can be overcome with a system that can help expedite the process of processing student grades. SMP Citra Negara is a school that applies an approach to organizing the learning process by combining General Education and Islamic Education into a single curriculum, with this approach all subjects and all school activities cannot be separated from the frame of Islamic teachings and values. Integrated Islamic schools also emphasize integration in learning methods that do not use web-based applications in the form of an online report card system that is able to provide information about grades to students quickly via the internet, with the existing system at SMP Citra Negara still having weaknesses in processing student grades. It is often found that the existing value data is a problem for teachers and students in schools because the value processing has not been computerized (manual), the value processing is done by calculating the amount of data on the average value of students using a calculator and written on the class list book. In addition, in this manual system there are still several weaknesses, including it still takes a long time for the assessment process, frequent errors in the summation results and frequent data loss. Where these data are used as a tool for measuring the progress of student achievement. To overcome the problems faced by SMP Citra Negara, improvements are needed to the ongoing system and its development must be adapted to current needs, namely an information system that is specifically used for processing teacher data, student data, class data, folder data, achievement data and student report cards, so that the processing process becomes faster and more accurate. So, we need an Information System for Assessment Reports and Web-Based Scheduling at SMP Citra Negara. Based on the explanation above, the title in this study is "Implementation of a Web-Based E-Raport Design System in SMP Citra Negara".

2. Literature Survey

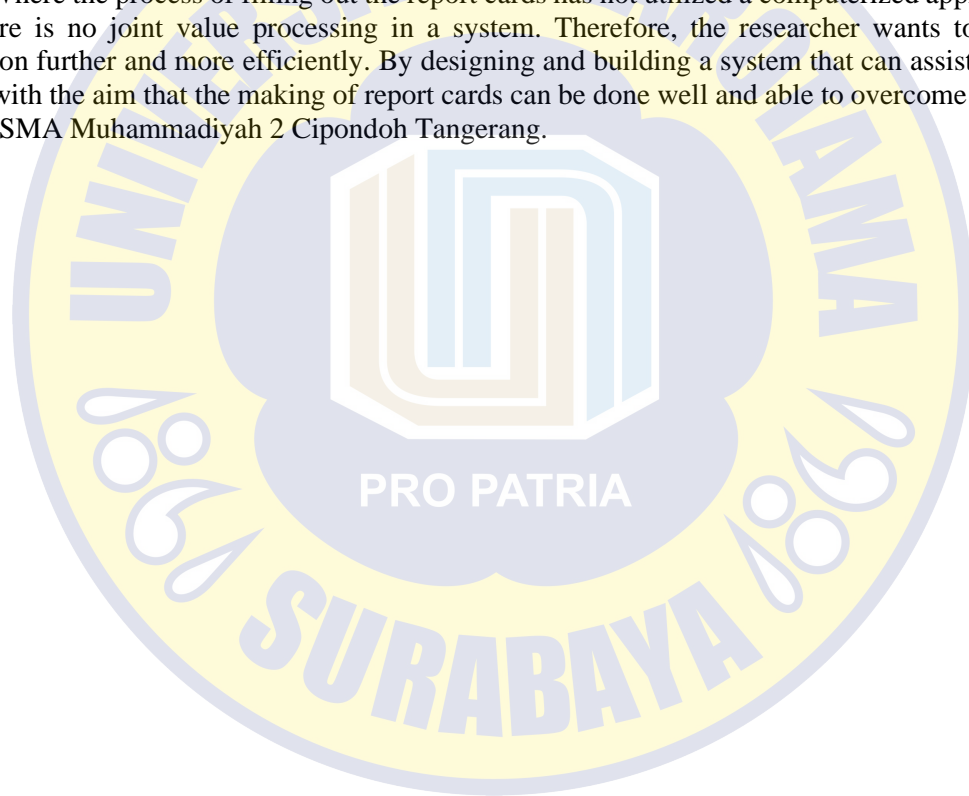
Research conducted by Yefta Christian, Stevatinus (2021), with the title "Design and Implementation of Website-Based K13 Report Report Information System (Case Study: Kallista School Batam)". The processing of report cards at the Kallista Batam School is currently still using the manual method using the Microsoft Excel application, so it requires more time and energy to complete the work. This study aims to develop a digital or computerized value processing information system. The Kallista Batam School K13 report card information system is an information system that can handle the processing of K13 report cards which have many assessment parameters including knowledge, skills, spiritual and social values, as well as students' extracurricular skills. In this information system there is also data collection needed in processing values such as student data, teachers, subjects, classes, and student attendance.

Research conducted by M. Haris Khoirul Fadillah, Ardianto Moenir (2021), with the title "Design of a Web-Based E-Raport Information System with the Waterfall Method (Case Study: SMKN 1 Tangerang Regency)". SMKN 1 Kab. Tangerang still has weaknesses in processing student grades. In this study the author uses the Waterfall development method. The Waterfall model has a process that flows systematically from one stage to another. These stages are analysis, design, coding, testing, maintenance. To overcome the problems faced by SMKN 1 Kab. Tangerang needs improvements to the ongoing system and its development must be adapted to current needs, namely an information system specifically used for processing teacher data, student data, class data, map data, achievement data and student report cards, so that the processing process becomes faster and accurate. So, a Web-Based E-Raport Information System is needed at SMKN 1 Kab. Tangerang.

Research conducted by Putu Ayu Desy Pangastuti, Denies Priantinah (2019), with the title "Implementation of Online Reporting Information Systems". Advances in technology make it easy for everyone related to the ease of obtaining and managing information. One real example is the development of the internet which has become an icon of technological development. Especially in the era of education 4.0, the internet plays an important role in the education process. In the era of education 4.0, educators and students are required to be able to integrate technology in every educational activity. One of the applications of technology in education today is the existence of a report card value information system based on the internet or what we usually know as online report cards. This research is a literature study that aims to collect information related to the use of an online report card information system implemented by several schools. The results obtained from this literature study are that the online report card system makes it easy for educators to process student value data that can be accessed by both students and parents.

Research conducted by Aziza Femi Winanda, Ari Parulian, Dekra Wond Dwi Putra Dieta, Dinni Wahyuni, Ovie Julian Trivani, Muhammad Luthfi Hamzah (2022), with the title "Designing a Web-Based E-Report Information System at SMP 4 Muhammadiyah Pekanbaru Using Agile Methods". Using the e-report is a solution given by the author to solve this problem. In designing and implementing the e-report system, the author uses the agile method, where Agile is a development model that is carried out iteratively, repeatedly, and can be changed if needed, and uses other software such as sublime text, bootstrap, mysql and php. The final result of this research is a website design that can solve the problem of delivering report card information that can be carried out quickly, effectively and efficiently.

Research conducted by Sufriyana Sofyan, Dine Agustine, Erna Oktora (2020), with the title "Web-Based Report Report Application System at SMA Muhammadiyah 2 Cipondoh Tangerang City". The process of filling out report cards that are running at SMA Muhammadiyah 2 Cipondoh Tangerang City for now is filling and processing report cards starting with the stages when the teacher from each field of study submits the value to the homeroom teacher, then the homeroom teacher checks and makes a recap of the value of each subject, then the homeroom teacher gives it to the administrative staff to print it. Where the value will be the academic value reported on a student learning progress report book or report card every semester and to be submitted to the student's guardian. The above system still has shortcomings because in the process of processing and storing data, especially student academic scores, it is still manual as in the form of Microsoft Excel. Where the process of filling out the report cards has not utilized a computerized application system so that there is no joint value processing in a system. Therefore, the researcher wants to raise the above discussion further and more efficiently. By designing and building a system that can assist in filling student grades with the aim that the making of report cards can be done well and able to overcome the problems that exist in SMA Muhammadiyah 2 Cipondoh Tangerang.



3. Methodology

The Waterfall method (SDLC) was used to build and develop the system on the following stages:

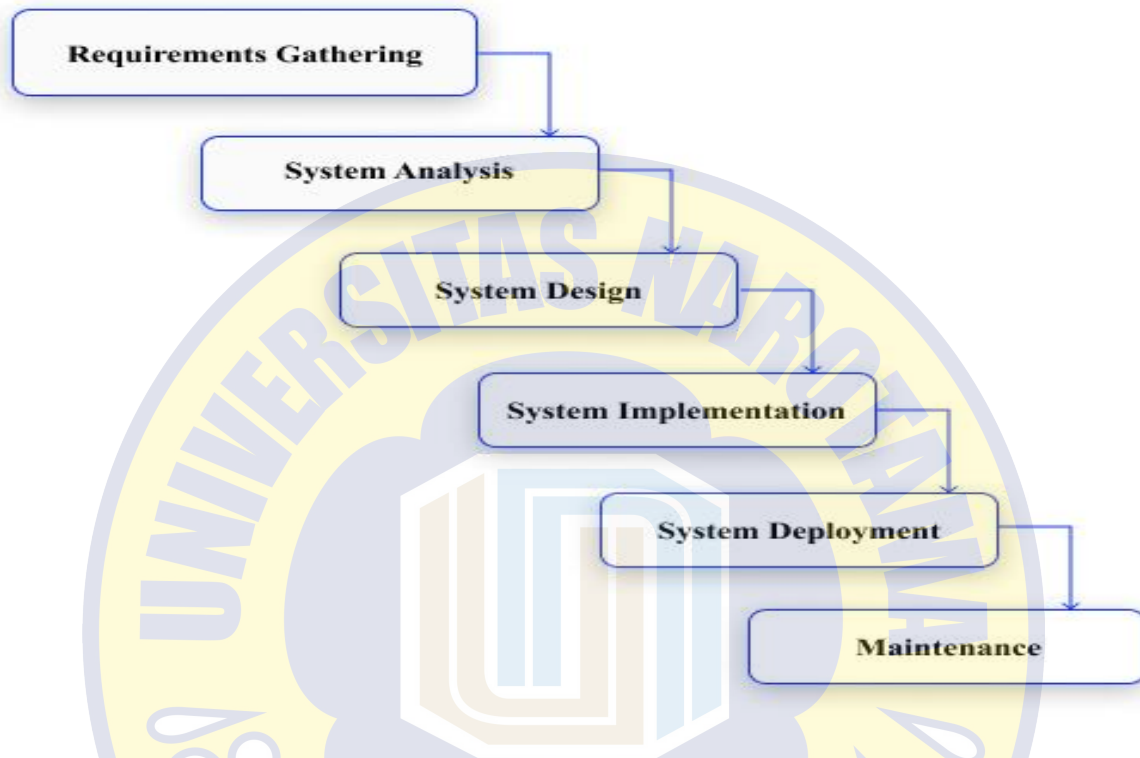


Figure 3.1: the stages of building the system

In this research, the focus was on the implementation phase of the system, where the system was divided into two parts:

1) The Back End of Software.

- Programming Language: PHP
- Databases: MYSQL
- Web Server: XAMPP

2) The Front End of Software.

- Programming Language: HTML, CSS, And JAVASCRIPT

Also, tools were used to implement the system, namely:

- Text platform: CodeIgniter
- COMPOSER, NPM And GIT.

3.1 Design

The main purpose of design is to meet the needs of system users to achieve this goal, a systems analyst must be able to achieve the following goals:

1. System design must be useful, easy to understand and later easy to use this means that data must be easy to obtain, methods must be easy to apply and information must be easy to generate and easy to understand.
2. The system design must support the main goals of the company or agency.

And the system will be designed as follows:

3.1.1 E-Report System Interface Design

Below is the main view of the project E-Report system, which will appear to users such as Login, Dashboard, Student Data and Class Data Pages.

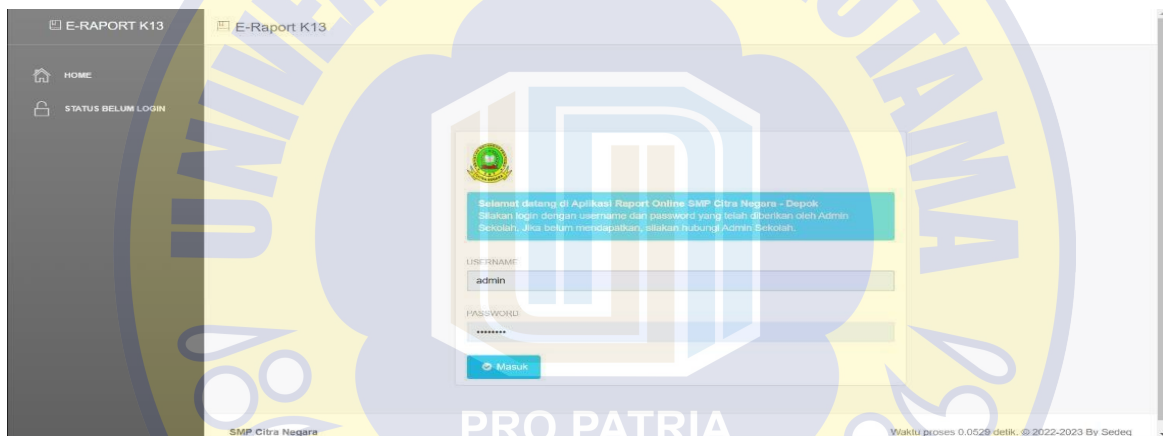


Figure 3.1.1.1: This is a Login Page.



Figure 3.1.1.2: This is a Dashboard Page.

Data Guru

Tambah

SHOW 10 ENTRIES SEARCH

No	NIP	Nama / Username / Password Default	Status User	Aksi
1	1002	Hafid / <i>hafid_1</i> / <i>guru123</i>	Aktif	[Edit] [Hapus] [NonAktifkan User]
2	321	Indrianti / <i>indra</i> / <i>guru123</i>	Aktif	[Edit] [Hapus] [NonAktifkan User]
3	123	Muhammad Uwais, S.Pd / <i>muhamm</i> / <i>guru123</i>	Aktif	[Edit] [Hapus] [NonAktifkan User]
4	1001	Septi Ellis Tari, S. Pd. / <i>septie</i> / <i>guru123</i>	Aktif	[Edit] [Hapus] [NonAktifkan User]

Showing 1 to 4 of 4 entries

Previous 1 Next

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Figure 3.1.1.3: This is a Student Data Page.

Data Kelas

Tambah

SHOW 10 ENTRIES SEARCH

No	Tingkat	Nama	Aksi
1	12	XI B	[Edit] [Hapus]
2	12	XI A	[Edit] [Hapus]
3	11	X B	[Edit] [Hapus]
4	11	X A	[Edit] [Hapus]
5	10	IX B	[Edit] [Hapus]
6	10	IX A	[Edit] [Hapus]

Showing 1 to 6 of 6 entries

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Figure 3.1.1.1: This is a Class Data Page.

3.1.2 E-Report System Database Design

Below is the main view of the project E-Report system database design with use case diagram such as admin, teachers and students tables with relationships between them.

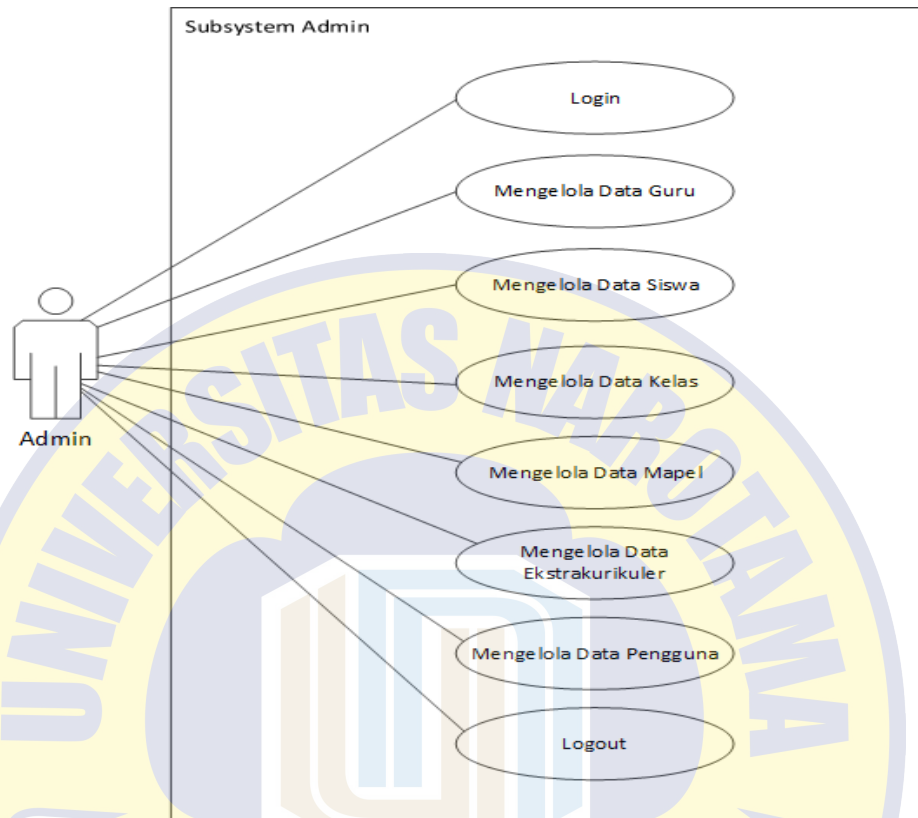


Figure 3.1.2.1: This is Use Case Diagram Admin.

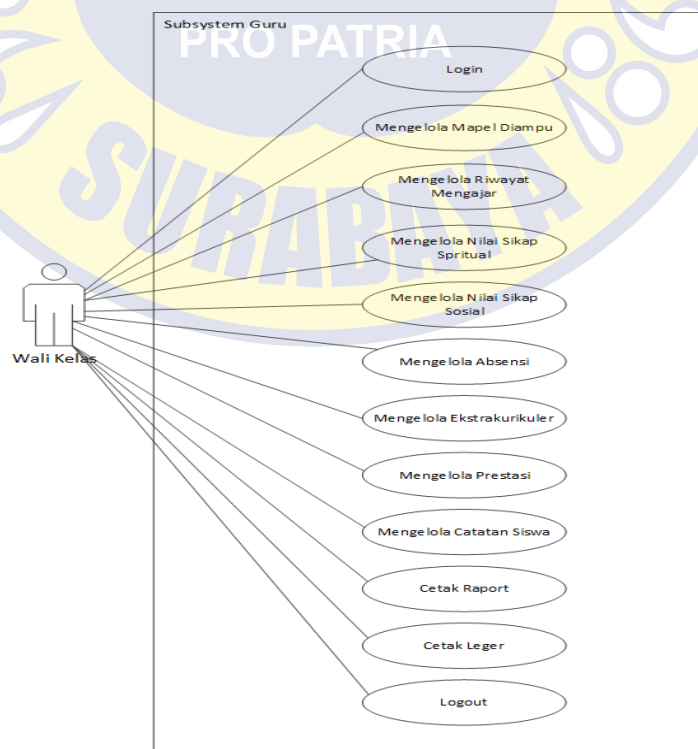


Figure 3.1.2.2: This is Use Case Diagram Teachers.

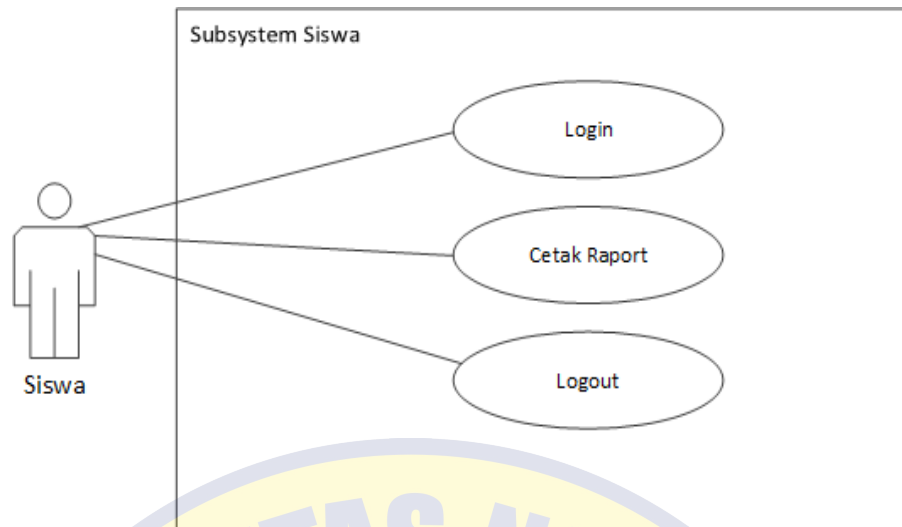


Figure 3.1.2.2: This is Use Case Diagram Students.

4. Implementation

System implementation is the stage where the system is ready to operate in actual conditions so that it will be known that the system is ready to produce the desired goals. Before the program is ready for use and implementation, the program must be error-free. Program errors that may occur include language writing errors, processing, or logical errors. After the program is free from errors, the program is tested by entering data to be processed.

4.1 Back End Development of System

In this stage, the data structure diagram is executed and the user data tables are created and migrated to MY SQL DATABASE and linked to FRONT END.

4.2 Front End Development of System

The design of web pages is implemented by dividing web pages into components, where the components of the page are then linked together, and then the pages are linked together by creating a layout. WAF template was used, where PHP instructions can be combined with HTML to receive data from the database, where HTML works on structuring the web page, and we also use CSS to add beauty and an attractive appearance to the page, and we use JAVASCRIPT to add interaction and responsiveness to the page when in use.

5. CONCLUSION

Based on the results of research and discussion at SMP Citra Negara, this system can be concluded:

1. By using a computerized system, e-report assessments can be accessed online properly and quickly at Citra Negara Middle School.
2. Whereas the e-report assessment information system can minimize the occurrence of Citra Negara students.

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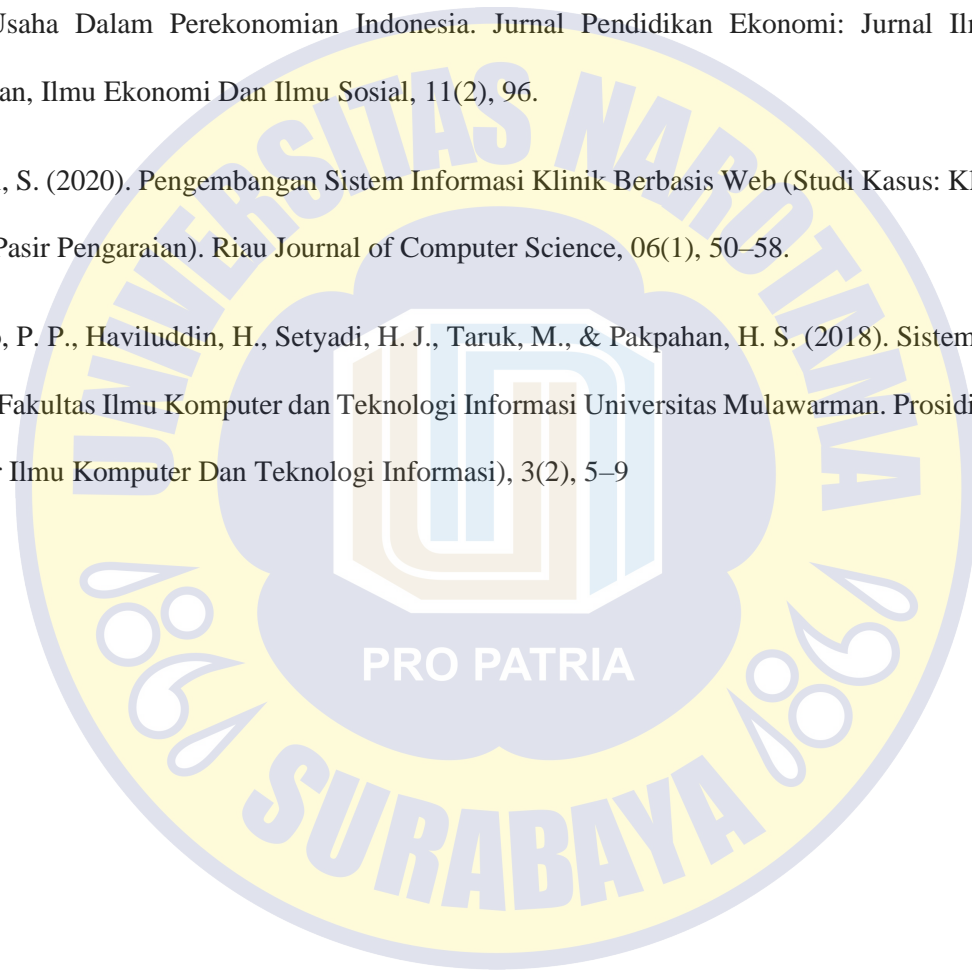
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Implementation Of a Web Based E-Report Design System in Middle School Citra Negara Depok

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INTRODUCTION

In the context of developing human resources, especially in the world of education, it is an excellent means and vehicle for developing human resources. Therefore, education needs to get more serious attention both by the government, families, and education managers in particular. With the rapid development of technology, educational facilities and infrastructure must also follow suit, one of which is the computerized media, namely the internet. With the internet where students and teachers can access information anytime and anywhere. Plus, at this time the use of the internet, especially websites, is already familiar in the life of the wider community, for example the activity of processing student grades. The 2013 curriculum is a new curriculum that applies to the current education system where there is a lot of data as a parameter for student assessment (Huda & Siska, 2020). With so much data that must be processed, the teacher or homeroom teacher has difficulty due to the large number of reference values that must be entered manually in the Microsoft Excel application.

OBJECTIVE

1. Benefits for Writers The benefits that are expected by the author after making this thesis, in order to be able to implement the knowledge that the author has obtained in lectures
2. Benefits for Readers Can increase knowledge in the world of information technology as well as the value of report cards and student scheduling.
3. Benefits for Academics Make one source of information and studies to add to the literature

RESEARCH LIMITATION

- The research includes designing and building an E-Report website.
- The research includes system development in terms of data planning and structuring as well as user interface design.
- The research includes the implementation and coding of the system.

STATEMENT OF THE PROBLEM

So that the discussion of the problems carried out can be well directed and not deviate from the subject matter, the authors limit the problems to be discussed, namely:

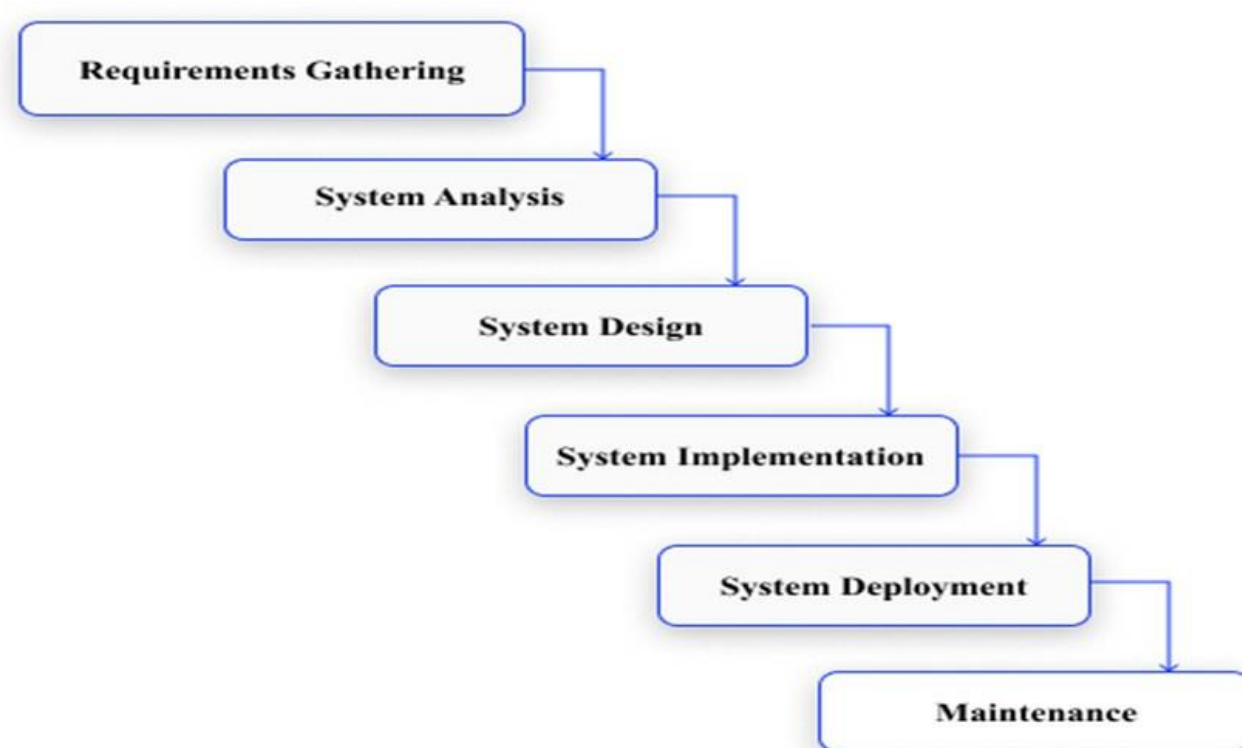
1. This application is built using PHP as the Server Side Programming Language, MySQL as the database server and the CodeIgniter Framework
2. This information system refers to the assessment of report cards and student scheduling in SMP Citra Negara
3. In this study, the Waterfall development method was used. The Waterfall model has a process that flows systematically from one stage to another. These stages are analysis, design, coding, testing, maintenance

PURPOSE OF THE RESEARCH

Provide a value system that can help teachers and students in processing report card value data

METHODOLOGY

The Prototype method (SDLC) was used to build and develop the system on the following stages:



In this research, the focus was on the implementation phase of the system, where the system was divided into two parts:

- 1) The Back End of Software.
 - Programming Language: PHP
 - Databases: MYSQL
 - Web Server: XAMPP
- 2) The Front End of Software.
 - Programming Language: HTML, CSS, SASS, And JAVASCRIPT
 - Libraries: BOOTSTRAP And VUE JS

Also, tools were used to implement the system, namely:

- Text platform: Visual Studio
- COMPOSER, LARAVEL MIX, NPM, GIT and CEMDER.

CONCLUSION

Based on the results of research and discussion at SMP Citra Negara, this system can be concluded:

1. By using a computerized system, e-report assessments can be accessed online properly and quickly at Citra Negara Middle School.
2. Whereas the e-report assessment information system can minimize the occurrence of Citra Negara students