WEB-BASED STUDENT PRESENCE INFORMATION SYSTEM
DESIGN AT SDIT IBNU KHALDUN PANAMBANGAN CIREBON
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ABSTRACT
The attendance system at SDIT Ibnu Khaldun Panambangan Cirebon previously still used the manual method of inputting attendance and there was no system to be able to provide attendance information to parents. This study aims to create a website-based student attendance information system at SDIT Ibnu Khaldun Panambangan Cirebon. Website-based student attendance information is an effective, fast, and accurate means of delivery, making it easier for schools, especially in providing student attendance information services to parents. Making a website-based student attendance system begins by analyzing system requirements, namely by direct interviews with prospective users and making system designs to the results of the system. Admin or teacher in charge of inputting student attendance. The system can recap each period or adjust the date that the system wants to set. System testing with Black Box testing as a functional feasibility test. The results of this research are the application of this student attendance system can facilitate the work of teachers in inputting attendance, make it easier for teachers to recapitulate student attendance, make it easier for the school to convey information to parents about student attendance at school, and make it easier for parents to get attendance reports. learners.

Keywords: System Design, Attendance, Student, Website

INTRODUCTION
Current development of the digital era this be marked with the more massive social media penetration in various aspect life economy, politics, culture and defense security. Phenomenon this is consequence change in communication style, from conventional methods and media going to digitization communication with use social media channels contemporary.

Utilization technology especially social media also plays a role in optimizing score plus economy and building synergy between all component nation, in increase well-being people, in the middle competition Among a nation that is increasingly sharp. Social media also has an impact positive, marked with development marketplace that brings together sellers and buyers, e-commerce, business start-up etc.

Development technology in the increasingly digital era fast has bring various change in society. Thanks to the increasing internet sophisticated, information from various parts of the world are getting easy accessed. Progress the not yet balanced with capacity user in utilise technology. The minimum digital literacy and ability in sort and choose information be one because Public easy exposed information false or hoax.

Development technology very information fast of course just will very help man in convey something information, remember all something done man will the more easy with existence development technology information.
Convenience give all information with speed and rate high accuracy, so that utilization the more expand no only in the field technology information course, also field economy, entertainment, security, business, education and utilization in the field other. Like case with the world of education, the system information very important for support progress school and for give information to Public by general with fast. Presence hold war most important in every activity process study teach and is element tree support in education. mischief teenager is something deed or Act someone’s behavior teenager good by alone nor by the nature of the group violate conditions legal, moral, and social conditions that apply in the environment society (Singgih, 1978).

A number of form mischief student cover like fighting, riding vehicle motorized without be equipped letters permission drive, go without goodbye with parents, no enter school without description, abuse drugs, relationships sex outside marriage and rape. In scope education, one mischief student is no enter school without description or truant. Student no attend class without information, even though they goodbye to parents at home for go to school. parents student no will knowing by direct incident like this. parents student only could knowing absence student only when certain just like time reception results study every semester. See condition that, needed role from parents and parties school for To do effort prevention to behavior mischief student that.

Researcher take object research at SDIT Ibn Khaldun with To do observation or observation. Researcher meet one case mischief students who don't present school without description that is to one student from SDIT Ibn Khaldun. Presence that doesn't regular is problem big in schools moment this. Absence referred to here is absenteeism caused because no reason clear, is n't it because reason sick or currently interested parties accompanied with letter permission. With system Attendance that is still manual is with take notes every day and recap repeat attendance data, party school only could give results presence students at the time reception results learn on every end of semester.

Attendance data students have n't fully Correct because system recording still use book recap from results attendance every day in period 6 months time in one semester. System Attendance that runs at SDIT Ibn Khaldun when this use attendance by written done every day. With method take notes presence student every lesson in accordance schedule, then results attendance the handed over to part student for recap return in accordance each class. System this need long enough for collection absenteeism, and costs used enough big for provide paper media as well as print attendance. In attendance data recording is also frequent occur error results data recording by officers because recording conducted manually. For rule attendance about absence student, party school must send letter to parents after student the no present without information minimum 3 days. Party school need cost addition and time in delivery letter that.

Technology information play a role important in repair quality something agency, use no only as process automation to access information, but also create accuracy, speed and completeness a integrated system, so that organizational process technology that occurs will relevant, effective, measurable, and flexible.

In development technology information often utilized by some institutions, as well as SDIT Ibnu Khalidun which is located on Jalan Ciwado Blok Cibonteng, Village, RT.001/RW.001, Mining, Sedong, Cirebon, West Java. utilise technology information as supporting the learning process teaching, one of the important processes needed in support activity study teach is attendance presence students.
Moment This is SDIT Ibn Khaldun in To do recording and management attendance still manually, where recording attendance student in form paper made by eye teacher lesson, sheet attendance the will managed by section curriculum as score presence students.

Recording process attendance there is problem from side Parents. Parent need information attendance her son per day, problem which occur is Parent no could access information, no could control his son, and often worry her son no follow all lessons in school that.

According to research conducted by Rachmansyah _ Anessa son of year 2020 about Design Get up Application Attendance Student Web Based In Vocational High School Mahardhika Surabaya, namely SMK Mahardhika Surabaya is a school private sector located on Jl. Baratajaya XII No. 1 Surabaya. Moment This is SMK Mahardhika Surabaya in To do recording and management attendance still manually, where recording attendance student in form paper made by eye teacher lesson, sheet attendance the will managed by section curriculum as score presence students. Recording process attendance there is problem from side Parents.

Parent need information attendance her son per day, problem which occur is Parent no could access information, no could control his son, and often worry her son no follow all lessons in school _ _ that. Solution which will submitted is designing get up application attendance student at SMK Mahardhika Surabaya which makes it easy part curriculum for To do change attendance student, make it easy teacher for absent students, as well parent for To do checking presence her son with accurate. Based on solution the expected attendance process could walk more maximum. Research results show application this already could tell to parent that children they present or not at the moment lesson that.

According to research conducted by M. Bahrul Natural Pranatagama in 2019 about System Information Payroll And Attendance Staff at Health Center Gribig Kudus Using the Web, namely the payroll and attendance process at the puskesmas Gribig moment this still use method conventional that is logging and marking hand for take notes presence employee. So that vulnerable occur action fraud in fill in presence.

Destination from study this is designing system information management that can help presence employee as well as management Payroll at the Puskesmas Gribig with development using the Laravel framework. Study this use method development linear sequential model system through four process stages, namely analysis, design, coding, and testing. Test conducted with testing blackbox, performance testing, efficiency, portability, and usability. Research results this show blackbox test results all function walk good.

Aspect performance testing get B value with score 83. Aspect of efficiency test using GTMetrix show the average page load performance of a web page is 2.77 seconds, page size is 147 Kb, Page Speed is grade A (98%) and Yslow grade B (95%) which means is above the average Page Speed grade which has an average of 71%, while Yslow grade has an average of 68%. Portability test results on google chrome browser, mozilla firefox, internet explorer all aspect system capable accessed without obstacles, as well as usability test results from 4 users who did the test with 10 questions give evaluation worth. So that System Information Attendance and Payroll could used for assist the management process employee Public health center Holy Gribig.

According to research conducted by Rahma Putri Paramita in year 2018 about Development Application System Attendance Student Website Based With Sms Gateway at SMK Negeri 2 Jakarta, namely System Attendance at SMK Negeri 2 Jakarta before still use manual method in input absent and not existence system for could give information attendance to parents _ students. Study this aim for make system information attendance
student based on SMS Gateway at SMK Negeri 2 Jakarta. Information presence student web-based with using an SMS Gateway is a means effective, fast and accurate delivery so that make it easy party school especially in give service information attendance student to parents students. Making system attendance student website-based with SMS Gateway initiated with To do analysis needs system that is with Interview direct to candidate user and create planning system until to results from system.

Admin or teacher on duty in input attendance students. System capable send attendance SMS message to parents students and can repay sms from parents by automatic with the SMS format that has been determined by the system. Study conducted with method development of the Rational Unified Process (RUP), where study this through a number of Step namely Inception, Elaboration, Construction and Transition. Test system with Black Box testing as testing appropriateness functional. Result of research this is application system attendance student this could make it easy teacher job in input attendance, making it easier for teachers to To do recapitulation attendance student, give convenience party school deliver information to parents student about attendance participant educate at school, and make it easier for parents get report attendance participant educate.

According to research conducted by Sutiyono on year 2021 about Analysis and design System Information Attendance Student Web-Based at Hope Vocational High School Nation namely Hope Vocational High School Nation which is located on Jl. Puradinata D9 Balaendah Bandung, West Java. Attendance student is control school to students who often ditching school, attendance student also very influence activities at school especially for smoothness something school. Error in To do roll call could very influence success whether or not something school in process and educate students.

The system used at SMK Harapan Nation Balaendah on process Attendance Student on currently is student come direct to school then student go to class after the bell sound, before doing activity study teach more first subject teacher To do attendance to students, the process carried out is the teacher calling name student one by one and students answer present then the teacher writes present inside agenda book or absenteeism, however if student no there, the teacher will ask is student the send permission letter or no, if no there is a letter of permission then the teacher writes alpha, in input attendance student manually this is required relatively long time.

The research carried out is aimed at for analyze and design System information Attendance Student at Hope Vocational High School Nation that makes it easy party school in input absenteeism so as not there is happening manipulation or mistakes in To do attendance. As well as could help make it easy and speed up in To do absent. The results of this study show that this system is capable manage process attendance Student at Hope Vocational High School Nation using PHP and MYSQL. From this research can concluded that system attendance this student can give convenience for school and students in To do attendance, The system is still very far from words perfect by because it's a writer recommend for future for those who are interested for develop this system in the future come.

Based on the above background, the author interested for make applications that can help party agency in processing student data, and choose title "DESIGNING WEB-BASED STUDENT PRESENCE INFORMATION SYSTEM AT SDIT IBNU KHALDUN PANAMBANGAN CIREBON" with hope could create something system more information good in To do data collection students.

RESEARCH METHOD
In writing scientific this method _ research used _ Writer is Study Descriptive Research Methodology . Descriptive Research Methodology is something methodology study with use technique study observation , interview/library study interview / library research result will describe something the situation under study or observed what existence.

RESULT AND DISCUSSION
Description System New
The design of the proposed system System design is the beginning of making the system to be made, where it can be seen what processes will be needed in the manufacture of a system. The design of the proposed procedure is a stage to improve or increase work efficiency. The system design stage is described as a design for building a system and configuring software and hardware components so as to produce a good system, the designed system becomes one component. The system proposed by the author is:
1. Student registrants come and register with the admin .
2. Students will choose the appropriate schedule given.
3. Teachers and administration will log in according to their needs, the admin will login to the admin account and the teacher will log in to the teacher account.
4. Re-registration is done by re-entering student data and selecting the class and semester and taking the schedule at the time he wants.
5. Student data reports are given to the head of guidance and teachers, in addition to databases for administration.

Data Flow Diagrams (Data Flow Diagrams)
Design Documents (Forms & Reports)

Input Design is the process of designing between advance input to the system. Under this is planning between advance input system information online grades and attendance at SDIT Ibnu Khaldun.

Design Login View

<table>
<thead>
<tr>
<th>Login</th>
</tr>
</thead>
<tbody>
<tr>
<td>Username :</td>
</tr>
<tr>
<td>Password :</td>
</tr>
</tbody>
</table>

![Login Menu Design](image)

Figure

1.1 Login Menu Design

4.1.3.2 Main Menu Design

<table>
<thead>
<tr>
<th>Attendance</th>
<th>Admin</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dashboard</td>
<td>Total Siswa</td>
</tr>
<tr>
<td>Siswa</td>
<td>Total Kelas</td>
</tr>
<tr>
<td>Kelas</td>
<td>Total Guru</td>
</tr>
<tr>
<td></td>
<td>Total Wali</td>
</tr>
</tbody>
</table>
### Student Data Form

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Sex</th>
<th>Date of Birth</th>
<th>Class</th>
<th>Number</th>
<th>Phone</th>
<th>Address</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

Figure 1.2 Main Menu Design

- Wali Kelas
- Pelajaran
- Absensi Siswa
- Laporan Absensi Siswa

Data Input Design
Input Menu Design

Data Output Design

<table>
<thead>
<tr>
<th>Letterhead</th>
</tr>
</thead>
<tbody>
<tr>
<td>No</td>
</tr>
<tr>
<td>-----</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>

1.3 Data Output Design

**Database Design**

**Analysis Document (Identification Information)**

Analysis document is activity collection information about the documents used in something system. Destination from analysis document is knowing document what only the input and output on the system score end of semester at SDIT Ibn Khaldun, as for documents used, between other:

1. **Attendance List Student**
   - Description: Data side about attendance students.
   - Function: As report attendance end of semester.
   - Double: 1
   - Source: Curriculum section
   - Distribution: -
   - Frequency: Every end of semester
   - Attributes: class, semester, NIS (No Parent student),
2. Report Attendance Student

Description: Data side about attendance student for 1 semester.

Function: As report attendance semester.

Double: 2

Source: Curriculum section

Distribution: -

Frequency: Every end of semester

Attributes: class, semester, NIS (No Parent student),

Student name, name eye lessons, grades end.

Entity Relationship Diagram (ERD)

Entity Relationship Diagram (ERD) or Diagram between Entity is a diagram illustrating connection existing stored data object in something system by conceptual and made by aggregation. Aggregation is a process of linking a gathering relation with something gathering entity. This thing very can conducted because basically relation could formed because relation the contain element from relation another. Related attributes with application attendance students at SDIT Ibnu Khaldun Panambangan Cirebon i ni could depicted as following:

![Entity Relationship Diagram](image)
Design Interface (Interface)

Interface design is a process in making the display format of a system. The goal of interface design is to make user interaction as simple and efficient as possible. Interface design is categorized into several designs which include menu structure, input design, and output design.

Analysis Software Requirements

In this case, the software used to support this process includes:

a. Program CodeIgniter, MySQL, used as bone Website Server
b. CodeIgniter program, MySQL, which is used to build websites.

Analysis Hardware Requirements

The hardware used to support the process of information system processing data based on website-based visits these, among others:

a. A computer that functions as a website server, which is supported by software Apache Web server.

b. Internet network where there is a client that will access data from the server computer.
c. Several computers or mobile phones that have been netted with the local network of the relevant agencies.

d. A printer that will be used to print reports.

**Needs Personnel**

Student attendance system at SDIT Ibnu Khaldun currently still uses the bookkeeping system. In the analysis at SDIT Ibnu Khaldun, it is necessary to have a systematic attendance system, in order to facilitate the flow of conduciveness and make it easier for guardians class in recording attendance student in every month or semester.

**Operation System**

1. Login Page

   login page is used for users who will enter the dashboard page. There are 2 levels of user levels, namely Admin and Homeroom, where each level has different access rights.

![Figure 1.5 Login Page](image)
Homepage showing information safe come and data about users who have logged in according to level.

3. Information Page Student

This page showing information about student, start from student id, name, type gender, address, class, date birth and number phone. On page this there is function to edit, delete and add student data.

4. Student Data Input/Edit Page

This page display the form for inputed to table students. Start from input Name, Type gender, date birth, class, number telephone and address.

5. Class Information Page

This page showing information regarding class data active. On page this there is function for modify, delete and add class data.

6. Student Data Input/Edit Page

This page display the form for inputed to table class. Start from plus class and name class.

7. Information Page Homeroom Teacher

This page showing information about guardian class. On page this there is starting data from guardian id class, teacher name, class, username, password, edit and delete.

8. Homeroom Data Input/Editing Page

This page display the form for inputed to table guardian class. Start from choose guardian class, choose class, username and password.

9. Lesson Information Page

This page showing information about information lesson. On page this there is starting data from lesson id, lesson, edit and delete data.
10. Input/Edit Page Add Lesson

This page display the form for inputed to Add Lesson.

11. Absent Page Student

This page showing information about attendance students. On page this there is starting data from NIS, Select Class, Month, Year.

12. Report Page Roll call Student

This page showing information about report attendance students. On page this there is starting data from Select Class, Month and Year.

**Budget Cost**

For knowing arrange report total cost of required for processing a process that took place at the SDIT Ibn Khaldun, then make it a table summarizing budget cost as following.

<table>
<thead>
<tr>
<th>No</th>
<th>Description</th>
<th>Unit</th>
<th>Amount</th>
<th>Unit price</th>
<th>Total cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>(1)</td>
<td>Monitor</td>
<td>Unit</td>
<td>2</td>
<td>Rp.1.300.000</td>
<td>Rp.2.600.000</td>
</tr>
<tr>
<td>(2)</td>
<td>Keyboard</td>
<td>Unit</td>
<td>2</td>
<td>Rp.150.000</td>
<td>IDR 300,000</td>
</tr>
<tr>
<td>(3)</td>
<td>CPU Packages</td>
<td>Unit</td>
<td>1</td>
<td>IDR 3,000,000</td>
<td>IDR 3,000,000</td>
</tr>
<tr>
<td>(4)</td>
<td>Printer</td>
<td>Unit</td>
<td>1</td>
<td>Rp.2,500,000</td>
<td>Rp.2,500,000</td>
</tr>
<tr>
<td>(5)</td>
<td>Mouse</td>
<td>Unit</td>
<td>2</td>
<td>Rp.80,000</td>
<td>Rp.160,000</td>
</tr>
<tr>
<td>(6)</td>
<td>A4 paper</td>
<td>Rim</td>
<td>1</td>
<td>Rp.120.000</td>
<td>Rp.120,000</td>
</tr>
</tbody>
</table>

**CONCLUSION**

Based on results from study this and the discussion that has been explained in chapters before then could conclusion a number of Thing as following:
1.1 In use planning _ system student data processing by computerized could increase efficiency work at SDIT Ibn Khaldun.
1.2 Student data design and processing this could help process student data processing and reduce happening error in the process of data input at SDIT Ibn Khaldun.
1.3 Student data processing by computerized could prevent happening errors and data corruption.

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