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Property Sales Data Processing Information System (SiPendar)

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Abstract—PT. Pratama Mega Konstruksiindo is one of the companies engaged in Property, especially Housing. One of the fields that requires technological progress is one of them is the property sector, the rapid development in the property sector is currently urging property service companies to meet the demands of the wider community. Implementation of work related to housing sales. In managing the data, this company still uses a manual system, starting from the recording and calculation aspects so that its performance has not been effective. At PT Pratama Mega Konstruksiindo this still manages data using MS Excel. As well as down payment, cash payments and consumer data are recorded using MS Excel. This can cause errors in recording transactions, data security that is not guaranteed confidentiality, ineffective employees at work because it requires more time to input and make sales reports and even loss of data. Therefore, PT. Pratama Mega Konstruksiindo requires a system that can solve the problem. This data processing system is designed web-based using the PHP and MySQL programming languages as data storage databases. With the existence of this website, it can help processing sales data more effectively and efficiently, reports can be printed in realtime and data security can be maintained.

Keywords: Information System, Data Processing, Property

I. INTRODUCTION

In this information and globalization era every single person and organization will be encouraged to always find new things and try as much as possible with the technology they have to respond and answer and provide direction on the problems faced, especially in various jobs that have been done manually. This technological advancement encourages companies to be able to utilize new technology in accordance with what is needed by the company. Making a web-based sales data processing information system using PHP and MySQL which aims to help facilitate the user and admin in systematically recording. PT. Pratama Mega Konstruksiindo is one of the companies engaged in Property, especially Housing. One of the fields that requires technological progress is one of them is the property sector, the rapid development in the property sector is currently urging property service companies to meet the demands of the wider community. With the increasing public demand for property needs, property prices are currently increasing. In managing the data, this company still uses a manual system, starting from the recording and calculation aspects so that its performance has not been effective. At PT Pratama Mega Konstruksiindo this still manages data using Microsoft Excel. Likewise with the down payment, cash payments and consumer data are recorded using Microsoft Excel.
This can cause errors in recording transactions, data security that is not guaranteed confidentiality, ineffective employees at work because it requires more time to input and make sales reports even the possibility of data loss.

In a previous study, the system used by companies in handling the recording and sale of home products was still done manually so that it hampered the company's performance. With the proposed proposal system can solve these problems while providing information on home sales quickly. The use of this new system works so that proper and fast handling can be carried out in the home sales process so that it can help smooth the operations of the company and simultaneously improve customer service. The resulting report is in the form of home data reports, home buyer reports (Devitra, 2017).

While the field of trade is one of the business sectors that has a rapid development, competition in this field requires the efficiency and effectiveness of the work of the traders properly and quickly. The existence of computers in the field of trade with its application that supports trade for growing is also increasingly easier in the cycle of trade and services. Kedai Pesisir is a shop with a trading business that is engaged in the sale of various needs of fishermen and various household needs, the transaction process is carried out almost every day, this shop experiences problems namely in the process of processing data on sales of goods still completely manual (Eka Puspitasari, 2015).

Base on the various problems that occur, the authors make the authors make a research with the title of information system data processing property sales, especially web-based housing at PT Pratama Mega Konstruksindo Depok

II. LITERATURE REVIEW

A. Information System

Information system is a system within an organization that brings together the needs of daily transaction management, supports operations, is managerial, and strategic activities of an organization and provides outsiders with reports needed (Hutahaean, 2015).

B. E-Business

E-business is a business activity that is carried out automatically by utilizing electronic technology such as computers and the internet. E-business allows a company to deal with internal and external data processing systems more efficiently and flexibly (Ayus, 2015).

C. UML (Unified Modeling Language)

According to Windu Gata (2013) UML is a standard specification language used to document, specify and build software. UML is a methodology in developing object oriented systems and is also a tool to support system development

The tools used in designing objects based on UML include: Use case diagrams, Activity diagrams, Class Diagrams, and Sequence Diagrams

III. PROPOSED METHOD

Based on the problems that have been described, the purpose of this research is how to design an information system or build an information system for data processing of property sales in this case devoted to home sales to solve existing solutions at PT Pratama Mega Konstruksindo. In building this system, the author uses the Waterfall method (R.A Sukamto, 2013). The stages in the waterfall method are:

A. Software Requirements Analysis

At this stage, the first step is done by the writer analyzing the business processes that are running in building this system. In the system to be built there are 2 access rights, namely the user and admin. Users here are marketing, on user access rights, users can input consumer data, make consumer transactions with available home units, print booking fee receipts and advance payments from consumers and users can manage user accounts such as changing username and password. In admin access rights have more access rights than users, admin can input consumer data, delete transactions that have been done by the user if there is an error, admin can view transactions and print reports on transactions carried out by each user, admin can input, change and delete the availability of home units on the form unit, the admin can input, change and delete user accounts.

B. Design

At this stage what is done is to create a database design where the process for determining the content and arrangement of data needed to support system design, besides that the author also uses ERD diagrams (Entity Relationship Diagrams) and LRS (Logical Record Structure), as well as relationships between these components where the author uses UML diagrams (Unified Modeling Language), as for programs created using Object-Based Programming (OOP), which consists of usecase diagrams, sequence diagrams, activity diagrams, and class diagrams. For database design using ERD (Entity Relation Diagram) to be more easily implemented into the making of program code.

C. Code Generation
In this stage the author uses the development of object-oriented programs or Object Oriented Programs and translates the codes into the programming language PHP and the programming that is made is object-based programming.

D. Testing
The author tested the program to find out whether the program was running in accordance with the structure that had been created by attempting to use BlackBox Testing.

E. Support
To support the making of the program, the author uses computer hardware with the specifications of the AMD E1-2100 APU with Radeon (TM) HD Graphics 1.00 GHz with 2GB of RAM. Whereas the software used is the Windows 2010 operating system.

IV. RESULT AND DISCUSSION
A. Designing Property Sales Data Processing Information Systems
The information system model built using UML, which aims to visualize the system so that it can get an application system that is in accordance with what is needed.
Figure 4. LRS Property Sales Data Processing Information System

Figure 5. Class Information System Data Processing Diagram for Property Sales
B. User Interface Design of Property Sales Data Processing Information System

Figure 6. Sequence of Property Sales Data Processing Information System Diagram

Figure 7. Display of Login Pages

Figure 8. Display of the Main Menu Page

Figure 9. Display the Consumer Form

Figure 10. Display of Transaction Form

Figure 11. Display of List Units
V. CONCLUSION AND SUGGESTION

Conclusions that can be drawn from making information systems are property sales data processing, especially houses at PT. Pratama Mega Kontruksindo is as follows:
1. By relying on information system technology, the administrative process at PT. Pratama Mega Kontruksindo is done more effectively and efficiently, because all administrative parts are integrated with each other.
2. With the implementation of administrative information system technology can improve work productivity, and minimize information errors that existed before.
3. Object-oriented programming can easily be used to build an information system, because existing programs can be developed by adding the necessary classes.
4. With the making of home sales data processing, the information needed is more maximal than when still using spreadsheet files (excel). Suggestions in developing information systems for data processing of home sales at PT. Pratama Mega Kontruksindo, among others:
1. The company can develop the system further by making a home sales data processing application to make it more accessible
2. For further research, this information system can be developed with other methods and programming languages.

VI. REFERENCES