PREMIUM INFORMATION SYSTEMS PA / ND IN PT.JASARAHARJA PUTERA BANDUNG

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ABSTRACT

The greater the level of performance of a company is not quit of requirement will an information. Information must be displayed in a form that meets these needs is required a medium which can present information very easily and quickly.

PT.Jasaraharja Son is a company associated with the sale of insurance business which provides various types of insurance. The use of premium information system at PT. Son into a guarantee agreement in the processing of customer data storage and access are still many shortcomings in the processing, storage and access of data storage associated with the reports still use manually resulting presentation of the data or information required is not efficient or very slow.

In this paper, a software developed using Delphi 7.0 with MySQL-based database of client / server where can connect three existing sections in the Son of the Registration PT.Jasaraharja used by the administration, the payment is used by the financial administration and reporting - report which will be used by the Head of Insurance.

By using sale system using Delphi 7.0 with MySQL SQL-based database client / server then PT.Jasaraharja Son can be more easily and quickly in the search data, can know the premium payment report effectively and efficiently.

I. INTRODUCTION

1.1 Background Issues

PT. Putera into a guarantee agreement is one of insurance companies simply leading SOEs in Indonesia compared with other insurance companies. In addition to satisfying the service the company also serves several types of such insurance is personal accident insurance and vehicle insurance. In this company there is a subfield that is devoted only type of work that is taking care premiums PA / ND. premia PA itself is a kind of payment for vehicle insurance. While premiums ND is a type of personal accident insurance payments. Until now these companies in conducting administrative use only Microsoft Exel, where the implementation takes a long time, because the premiums have a registration type of insurance that uses a different file format. So that employees have to copy the data back to customers and completeness when do new registration or renewal of his insurance. Separation of PA and premium premium files ND, frequent occurrence of one of the premium calculation. Other problems are lack of proper system that determines whether the prospective client to keep our customers insurance, and no calculation of premium and annual premium update Therefore, we need a system that can assist in overcoming the existing problems. Namely by creating a system in accordance with company standards.

Therefore the author wants to try to create a database that is needed in one application which in turn can facilitate employees in performing their work activities. because with the implementation of the system in accordance with the Operational Control System (SPO) officer where SPO is managing the new registrations by type of insurance customers and manage registration for customers who have registered incorrectly one type of insurance to re-register the other insured.

Because of the problems - the problems it is constructing an information system application in the form of premiums PA / ND in order to provide solutions and proposed to serve as the final project with title "INFORMATION SYSTEM OF PREMIUM PA / ND in PT.JASARAHARJA PUTERA BANDUNG".

1.2 Problem formulations

The formulation of the problem of the above problems, namely:

"How to Develop Premium Information Systems PA / ND into a guarantee agreement Son In Bandung?".

1.3 Objectives

Based on the problems studied, the purpose of making this final task is to develop an Information System for Premium PA / ND into a guarantee agreement Son In Bandung.
Whereas goals to be achieved in this research are:
1. Existing customer data on the premiums can be used for premium PA ND.
2. PA premium unify and Premium ND.
3. Determine whether a borrower becomes eligible customers remain insurance.
4. The presence of premium calculation system and updates the premium each year

2. MODELS, ANALYSIS, DESIGN AND IMPLEMENTATION

2.1. Models

The methodology used in this thesis is as follows:

Stage of data collection

1. Data collection methods used in this study are as follows:

   a. Literature Review.

   Data collection by collecting literature, journals, papers and readings that have anything to do with the title of the research.

   b. Field studies

   1. Observasi.

   Data collection techniques by conducting research and review is taken directly to the problems.

   2. Interview.

   Data collection techniques by conducting a question and answer directly related to the topic that was taken.

2. **Stage of software development.**

Data analysis techniques in the manufacture of software using waterfall paradigm in software, which includes several processes including:

a. System / Information Engineering

Represents the largest part of the system in progress of a project, started by defining the various needs of all elements of the system and allocate the necessary software into the formation.

b. Analisis

Is the phase of analyzing the things required in the software development project.

c. Design

Translation phase of the analyzed data into a form that is easily understood by the user.*Coding*

Translation stage data or solving problems that have been designed into a particular programming language.

d. Examination

Is the testing phase of software built.

e. Maintenance

Final stage in which a software which has been completed can experience changes or additions in accordance with user demand..

2.2. Analysis

A.Analysis system

Systems analysis is the decomposition of a whole system into their component parts in order to identify and evaluate problems. Conduct an analysis of the current system as the basic aim of design or repair the old system. From the analysis results can be known weaknesses or deficiencies of the old system and can be designed or improved to a better system. Things that were analyzed in the analysis phase is a system problem analysis, functional analysis, analysis of the current system procedures, information flow analysis, coding analysis, database analysis, and non-functional needs analysis that includes hardware and software used, and analysis of users are involved.

B. Database Analysis

Logic structure of the database can be depicted in a graph by using the Entity Relationship Diagram (ERD). ERD is the relationship between the entities that are used in systems to describe relationships between entities or data structures and the relationships between files. The main components of the formation of ERD is an Entity (entities) and relations (relationships) so that in this case the ERD is the entity set components and a set of relations which are described further through a number of attributes (properties) that describe all the facts of the system being simulated. The ERD of the application to be made are as follows:

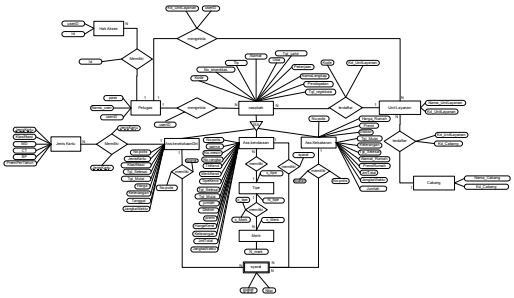


Figure 1 Entity Relationship Diagram (ERD)

C. Functional Needs Analysis

1. Context diagram

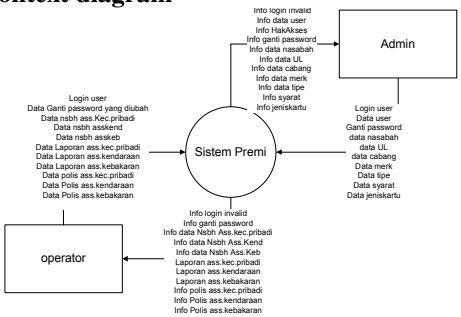


Figure 2 Context diagram

2. DFD Level 0

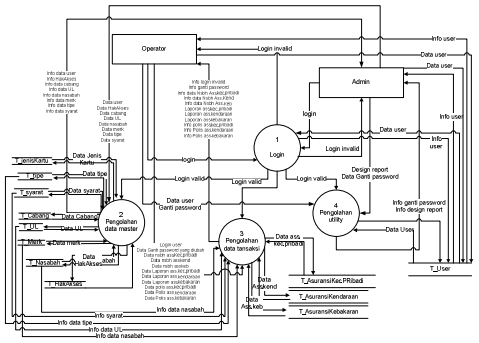


Figure 3 *DFD level 0*

3. Skema Relasi

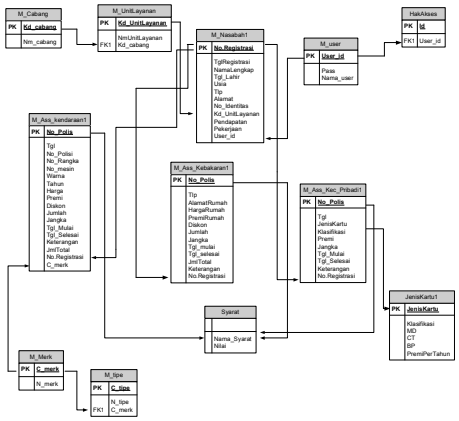


Figure 4 Relation Scheme

2.3. Design

A. Menu Structure Design

In designing a menu structure that required the application menu and submenu contains functions to allow a user to use the application. Here was described on the menu structure of these applications:

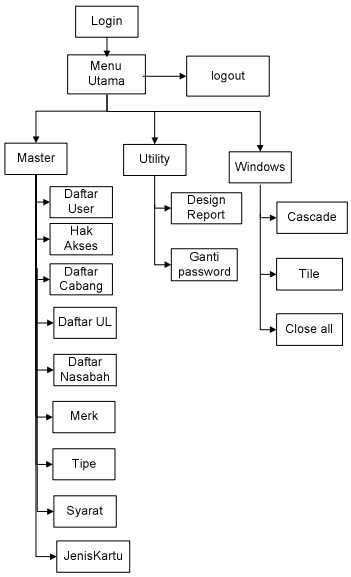


Figure 5 Structure menu

B. Home Design Applications

Here is a picture design of the main menu.

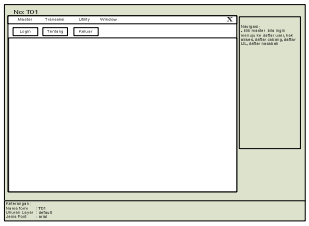


Figure 6 View initial menu

C. Display Process insurance enrollment

1. Registration of personal accident insurance

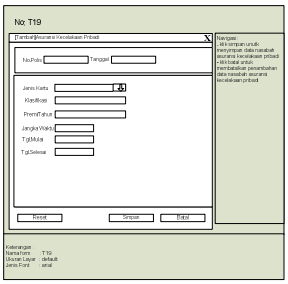


Figure 7 personal accident insurance transactions Views

2. Registration of vehicle insurance

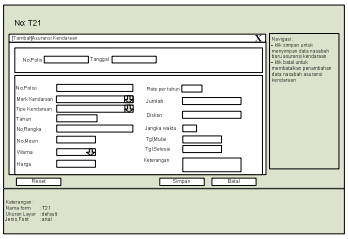


Figure 8 View Vehicle insurance transactions

3. Registration of fire insurance

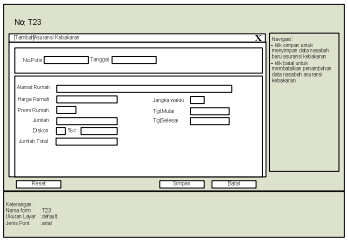


Figure 9 View Fire insurance transactions

2.4. Implementation

In this chapter will be the implementation and testing of the system has been built. This stage is performed after the analysis and design done, then implemented in a programming language used. After implementation, system test which will be seen on the system deficiencies that have been built, to be repair or development of the system.

A. Implementation System

The objective is to confirm the implementation of the design program modules on the system actors so the user can give input to the system builder.

B. Hardware Implementation

Hardware used to implement the following minimum program :

1. Processor Intel Pentium IV with 1.8 GHz speed
2. 1 Gb Memory
3. 80 Gb hard drive
4. Monitor, Keyboard, Mouse..

C. Software Implementation

Software used to implement the program are as follows:

1. *Window XP service pack 1,* as an operating system,
2. *Borland Delphi 7.0,* as the implementation of the system design,
3. MYSQL sebagai D*atabases Management Storage* (DBMS),
4. *Component Borland Delphi 7.0*

D. Implementation Form

Implementation of the form carried out to find every page program. Here is a form that has made the implementation.

Tabel 1 Implementasi Form

Menu	Description	File Name
Preliminary Views	Program files to display the application home page	unPra_Login .pas
Login User	File program to handle user login	unLogin.pas
Main	The overall process system	unMain.pas
Data User	Data processing, user, access rights,	unUser.pas, unUser_Input.pas,
Transaction Data	Customer data processing, data, personal accident insurance, vehicle insurance data, fire insurance data	UNasabah.pas,Ukecelakaanpribadi.pas, Ukendaraan.pas, Ukebakaran.pas,
change passwords	Program files to change user passwords	unGantiPassword.pas

3. RESULTS AND DISCUSSION

From analysis and design that has been done, the results of the application built on the view might look like this:

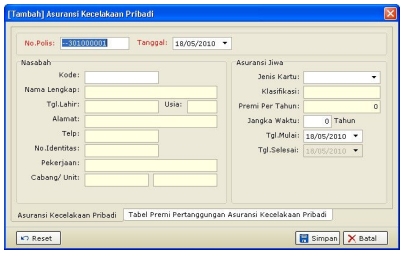


Figure 10 Form Personal Accident insurance transactions

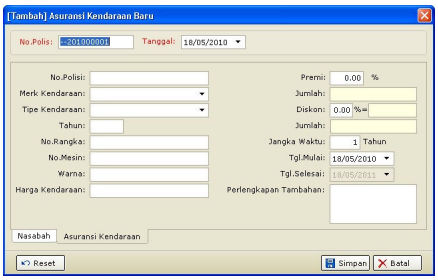


Figure 11 Form Vehicle insurance transactions

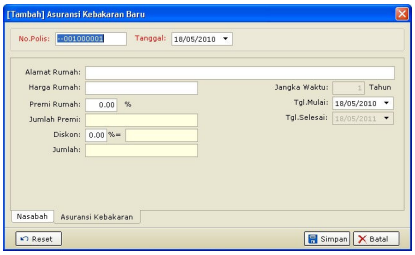


Figure 12 View Fire insurance transactions

4. CONCLUSIONS AND SUGGESTIONS

4.1. Conclusions

And after doing the analysis, design, implementation and testing, it can be concluded as follows:

1. The system built can simplify the personnel in the use of existing customer data in premiums and premium ND PA.
2. System is designed to unite the premium and the premium ND PA
3. The existence of a decision support system proper of prospective customers to remain customers of insurance
4. The existence of the process of calculating premiums each year so as to minimize the possibility of error when calculating premiums
5. The system is capable of handling the processing and data management.
6. The system built to reduce the accumulation of documents

4.2. Suggestion

Based on the above conclusions, the suggestions are expected from the application of information systems premiums PA / ND which has been built can be further developed in order the better the application in order to simplify its data processing employees in the implementation of administrative.

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