Design Build The Modern of Employee System Application Development

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ABSTRACT

Employee's system of application is a modern computer application that used to managing employees data. The Goal of Research is built a Employee's system of application that can handle complex and much data in order to more effective and efficient, specially for Badan Kepegawaian Daerah(BKD) Kota Bandung
The main concept in designing and develoving this applications is basic on server client, so we hope this aplications can help all of part of management in BKD of Bandung more integrated one another .
Kata Kunci : *Sistem Informasi Kepegawaian*

1. INTRODUCTION

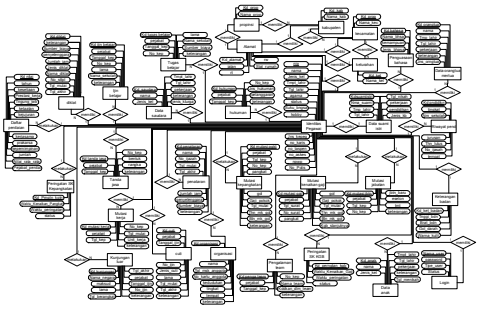
Management Execution employees administration in BKD the city of Bandung is pertained weight, this condition are caused BKD the city of honor bound Bandung to manage matters that concerning personnel administration PNS that amount to more or less nineteen thousand six hundred five PNSs that disseminated in all city and sub-province bandung, more than anything else data that managed in personnel administration referred as goal seeking.

To finish problems that faced by BKD Kota Bandung required a correct employee management system application, to the needs of and can help water down in finishing problem that faced and easy to operate by employee BKD Kota Bandung.

2. MODEL, ANALYSIS, DESIGN AND IMPLEMENTATION

2.1 Data Model

ERD depicts relation between data object. ERD is notation that used to conduct activity of data modeling. ERD this employee management system application can be depicted like at Gambar 2.1



Gambar 2.1 ERD of Employee System

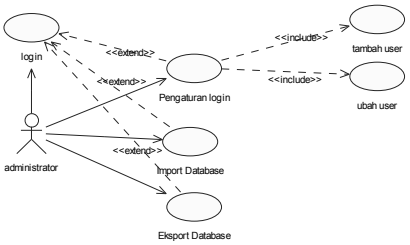
2.2 functional need analysis

Functional need Analysis is conducted to give existing picture of data stream at application program that will be built.

2.2.1 *Use Case* Diagram

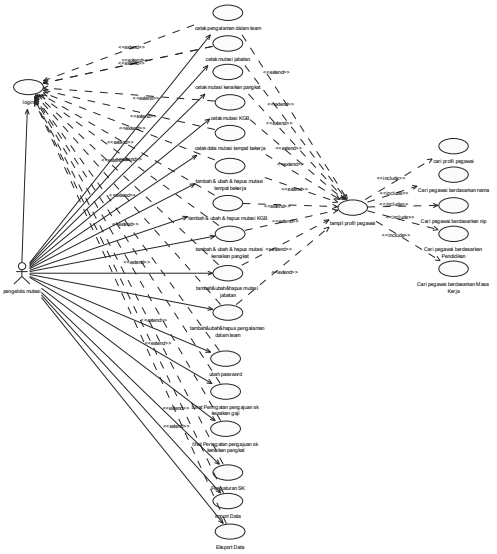
Diagram Use Case is one of diagram to model aspect of system behavior. Each diagram use case shows a group of use cases, actor, and its relation. Diagram use case is centers modeling of system behavior, sub

system, and class. Use case is interaction between actor and system. At picture 2.2 showed system process with administrator actor that depicted in diagram use case as follows :



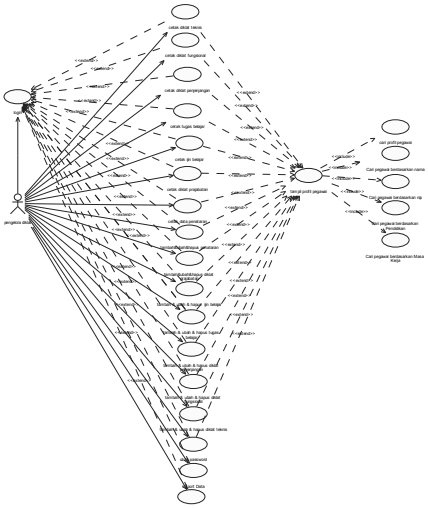
Gambar 2.2 use case diagram of administrator

At picture 2.3 showed system process with actor of mutation organizer that depicted in diagram use case as follows :



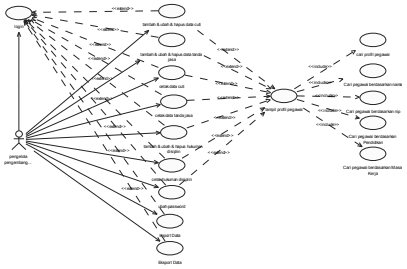
Gambar 2.3 use case diagram of mutation organizer

At picture 2.4 showed system process with organizer actor diklat that depicted in diagram use case as follows :



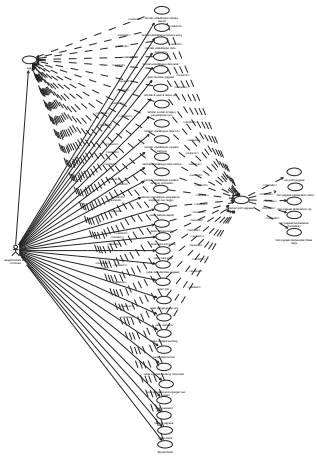
Gambar 2.4 use case diagram of diklat organizer

At picture 2.5 showed system process with actor of employee development organizer that depicted in diagram use case as follows :



Gambar 2.5 use case diagram of employee development organizer

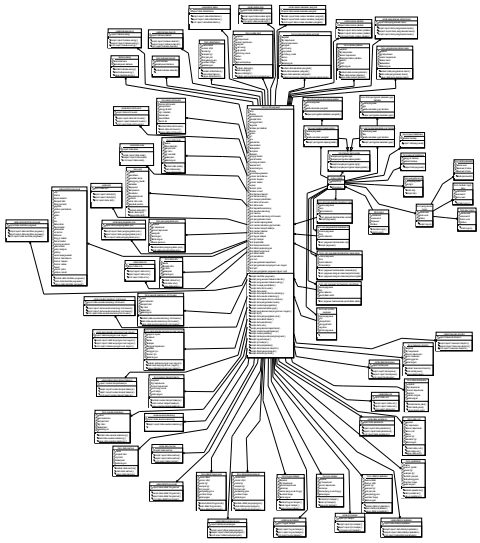
At picture 2.6 showed system process with actor of data organizer and information that depicted in diagram use case as follows :



Gambar 2.6 use case diagram of data and information organizer

2.2.2 *Class Diagram*

Endowment is mechanism to express iikeness among classes, make moderate pendefinisian class of a similar nature with class that defined previously. Endowment concerning generalizing and specification, state attribute and service together (commonality) in eksplisit in class hierarchy.



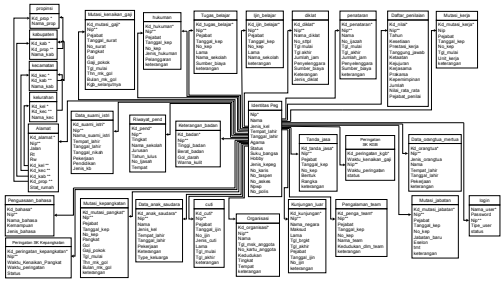
Gambar 2.7. *Class Diagram of Employee System*

2.3 Data Design

Data Design is step to map conceptual model to data base model which to use. Data Design is divided become three that is relationship scheme, code design and design of tables structure.

2.3.1 Scheme Relation

Relationship Scheme is relation network between two tableses or more on data base system. Picture 2.8 is explanation of data base network at employee management system that will be built



Gambar 2.8 Scheme Relation

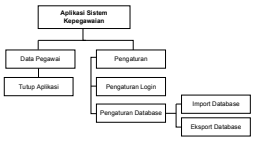
2.4 Architecture Design

Architecture Design is design that made before application program is made. With architecture design will water down process of employee management System application development.

2.4.1 Design Struktur Menu

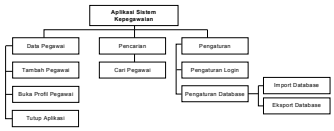
Design of comprising menu structure menu and submenu that facilitate user didalam uses system. Menus is referred as divided base rights accesses each user. Following picture hits structure of employee management System application menu.

1. Struktur Menu of administrator



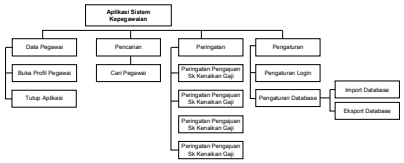
Gambar 2.9 struktur menu of administrator

2. Struktur Menu of data organizer and information



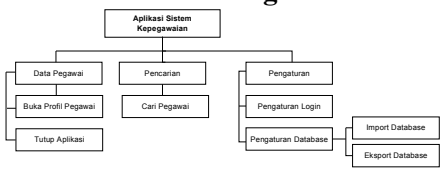
Gambar 2.10 structure of data organizer menu and information

3. Structure Menu mutation organizer



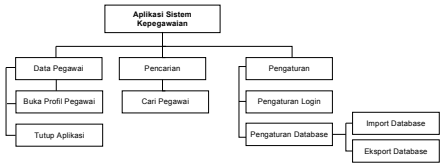
Gambar 2.11 structure of mutation organizer menu

4. Structure Menu organizer diklat



Gambar 2.12 Structure Menu organizer diklat

5. Structure Menu organizer of employee development



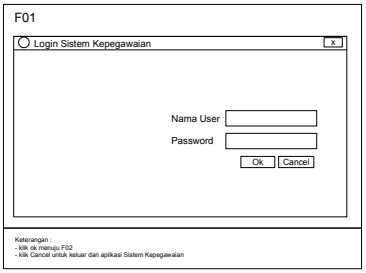
Gambar 2.13 Structure Menu organizer of employee development

2.5 Interface Design

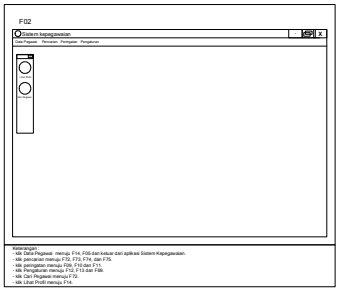
Interface Design bent on to give picture about application that will be built. Until will water down in application implementation and also will facilitate application making that user friendly.

2.5.1 Design of Application program Interface

Following is interface display that designed at employee management system application shall be as follows:



Gambar 2.14 Display Login



Gambar 2.15 Display Main Menu

2.5.2 Message Design

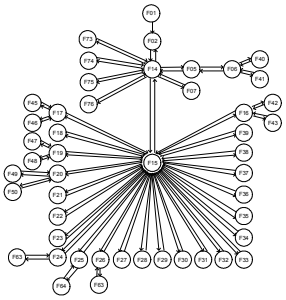
Following is existing message design at Employee System application.



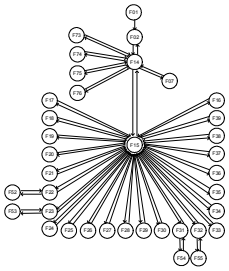
Gambar 2.16 Message Design

2.5.3 Network Semantics

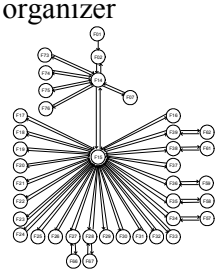
Semantics Network is effective tool to represent data mapping, that bent on prevent the happening of data duplication.



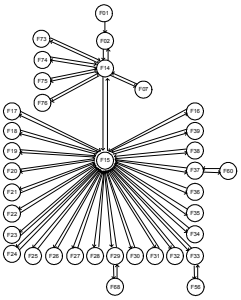
Gambar 2.17 Network Semantics Of data organizer and information



Gambar 2.18 Network Semantics Of mutation organizer



Gambar 2.19 Network Semantics Of Diklat Organizer



Gambar 2.20 Network Semantics Of Employee Development Organizer

3. RESULT AND DISCUSSION

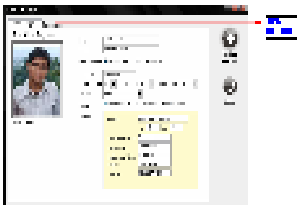
1. Dispay Login



2. Display Main Menu



3. Display Add Employee Form





4. CONCLUSION AND SUGGESTION

Base existing problems at Employee System can be concluded as follows :

1. Can help in many management of Employee Data repository , because base on server client until every management part can update and add employee data.
2. Can help conduct process of data seeking with more effective and efficient.
3. Can help in making of employee report, until report making becomes easier and quick.

Suggestions that writer say expected can more improve result that has been got. Following some suggestions that submitted by writer :

1. Server that used for this Sistem expected have nice specification and have big hardisk in order to can accomodate employee data that many.
2. Network Making must nice because have an in with speed accesses employee data from client to server.

5. BIBLIOGRAPHY

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