

Information System of Follow Up Evaluation Report Multi User Based On The Bangka Belitung Inspectorate Department

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Abstract

Work performance improvement and human resources professionalism can not be separated from the infrastructure that either one of them is to have Information and Communication Technology and content in accordance with the requirements therein. Good decisions can not be separated from ICT as supporters. Where the data is processed and processed to produce an information. Follow-up information systems Evaluation Report of Examination Results-Based Multiuser is one of the content is designed and created using object-oriented methodologies with software tools UML (Unified Modeling Language), direct observation, and interviews with relevant parties. The purpose of this research is to obtain the actual data so that we can found weaknesses in the old system, then improved by using the new system. Inspectorate Department of Bangka Belitung have many targets to be met which leads to the desired conditions that minimize the use of funds even remove deviant who cause loss to the state. Research result is an application that can provide the best solution to resolve the processes associated with the results of the evaluation report on the Office of the Provincial Inspectorate of Bangka Belitung.

Keywords : *Evaluation, Information, WEB, multi-user, inspectorate*

1 INTRODUCTION

Bangka Belitung Inspectorate is a government agency which has an important role as a government internal control apparatus. In accordance with its vision: "Leadership in guarding Bangka Belitung province Government through increased professionalism surveillance apparatus to create Good Governance and Clean Government". Therefore, the application of information systems is necessary for data accessibility is presented in a timely and accurate for users, especially data that will be presented is very large and requires a lot of computation, especially the financial audit process with respect to the examination findings department official results concerning the use of budget funds government annually. System information such as program-multi-user based application with various reports generated are expected to

triggers all stakeholder needs so that the vision of the provincial inspectorate Bangka Belitung can be realized and moral responsibility as a government internal control apparatus can be implemented properly.

2 RESEARCH METHODOLOGY

2.1 Observation Method

SBY direct observation and conduct a review of the activities in the library to find the data that is in need, so it can be seen that the business process is running.

2.2 Interview Method

Conducting interviews with related parties to obtain study materials that may be separated from the observations.

2.3 Study Library Method

Authors also search for data and information from the library by studying books or the dictates relating to the preparation of this study.

3 DISCUSSIONS

3.1 Object Oriented Analysis Design

According to Adi Nugroho (Adi, 2005) system analysis can be expressed as the separation of a case in certain parts. The sections were then studied and evacuated to determine whether there are ways to better meet the needs of management. According Sutopo system analysis is the process of determining the needs of the system - what should be done to meet the needs of the client system, not how the system is implemented (Sutopo, 2002: 242). The basic concepts of object-oriented reach maturity at the time of the analysis and design problems become more noticed than the coding problem. Specifically, the term "object-oriented" (Sutopo, 2002: 3) means that "we organize the software as a collection of specific objects that have data structure and behavior".

3.2 Unified Modelling Language (UML)

According to Martin (Martin, 2005) Unified Modeling Language (UML) is a "language" which has become the industry standard for visualizing, designing and documenting software systems. UML offers a standard for designing a model of a system. By using UML we can create a model for all types of software applications, where the application can run on any hardware, operating system and network sharing, and written in any programming language. Also because UML use the class and operation in the basic concept, then it is more suitable for writing software in object-oriented languages (Irwanto, 2006). UML notation is mainly derived from the 3 existing notation: Grady Booch OOD (Object-Oriented Design), Jim Rumbaugh OMT (Object Modeling Technique), and Ivar Jacobson OOSE (Object-Oriented Software Engineering).

3.3 Computers Network

Computer Network is a collection of computers and other equipment are connected in one unit (Budhi, 2005). Information and data moving through wires or wirelessly allowing the network users can exchange documents and data, print on the same printer and together using hardware and software that is connected in a network. Each computer, printer, or peripherals that are connected in a network are called nodes of a computer network can have two, tens, thousands, even millions of nodes (Budhi, 2005). Designed star topology where each nodes (file servers, workstations and other devices) connected to the network through a concentrator (hub or switch). This topology is used for LAN, MAN, or WAN.



Figure 1: Network Topology

3.4 Black Box Testing Models

Black box methods focuses on requirements or functional requirements of software are made. Black box testing methods focus on the functional needs of the software. Therefore, Black Box testing method makes it possible to create a set of input conditions that will train all the functional requirements of a program (Rex, 2002).

3.5 Analysis of Needs

Analysis method used in the development of this research is using object-oriented analysis with UML as modeling tools. From the analysis of the existing problems were identified object any role in the system and to be developed further and more detailed in the results of the analysis.

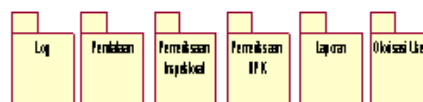


Figure 2: Package Diagram

Based on the analysis of existing ones, then the specified grade class involved in the system and attributes attributes of each class are described in a class diagram.

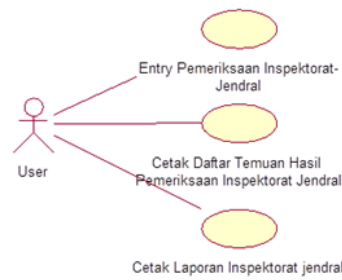


Figure 3: Uses Case Screening Packages Inspectorate

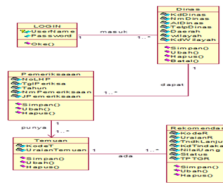


Figure 4: Class diagram for the actors and entities involved in the system

3.6 Software used

1. Rational Rose 2000 as a tool in the manufacture of UML modeling for process analysis and design.
2. Design Interface. In designing Form and programming language used is Microsoft Visual Basic 6.0.
3. Operating System and Database. Server with Windows Server operating system 2003, the database server by using the Oracle 10.g for data storage.

3.7 Display Some Important Form



Figure 5: a)Main Menu b)Form Login



Figure 6: a)Form Office Data Collection, b)Form Inspectorate Examination Entry

Collection Agency need to perform data input to all services in the Bangka Belitung
This form is used to enter all the checks and the findings of the agency that will be in
check.

3.8 System Testing

System testing by discussion was attended by the respondents representing the inspectorate concerned. Researchers do presentations and demos showing the new website that has been created and the applications made and explains every function that is based on the instrument that had been prepared. Having watched and knew how to operate the application, then respondents were given the opportunity to try to direct use. Furthermore, participants providing information, feedback and approval form that has been provided by the researcher before the respondent tried on each computer. Based on tests conducted by the respondent, it will obtain the test results of the functional system based on the needs of each user is an administrator, and staff.

Based on the results of black box testing performed by the competent persons and the inspectorate chairman, it can be concluded that the information system made are in accordance with the specification of functional requirements required of the user. Therefore, based on the analysis, design and construction of software for information system can function properly and produce a good validation

4 CONCLUSIONS

From the discussion we concluded as follows:

1. Information systems of follow-up evaluation reports multiuser based on the Bangka Belitung inspectorate department made will make it easier for inspectorate staff to knowing information about the examination and evaluation.
2. Facilitate the search data quickly to the results of the examination conducted by the inspectorate staff in previous years and the data can be well-documented in the electronic data storage media.

Table 1: black box test result

Data Masuk	Yang diharapkan	Pengamatan	Kesimpulan Pengujian
Username :	Muncul	Konfirmasi Login	Sesuai
Password :	pesan Login	Sukses muncul dan	
Klik tombol	Sukses dan	Halaman Utama	
Login	membuka tampilan utamanya.	langsung terbuka.	
Username : User	Muncul	Muncul	Sesuai
Password : User	Konfirmasi Gagal	Konfirmasi Gagal	
Klik tombol	Login	Login	
Login			
Masukkan	Muncul	Muncul	Sesuai
Username dan	Konfirmasi Gagal	Konfirmasi Gagal	
Password yang	Login Anda	Login Anda	
salah berulangulng	Bukan Operator	Bukan Operator	
sebanyak	Yang Berhak	Yang Berhak.	
tiga kali.		Dan program	
Klik tombol		aplikasi langsung	
Login		ditutup	

3. Based on the results of black box testing is done, application made are in accordance with the specification of functional requirements required of the user. Therefore, based on the analysis, design and construction of software work properly.

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