



Employee Diklat on Employee Data Application System PT. Indonesian Port I (Persero)

Muhammad Amin

Sistem Komputer, Fakultas Sains dan Teknologi
Universitas Pembangunan Panca Budi Medan, Jl. Jenderal Gatot Subroto, KM 4,5 Sei Sikambing 20122 Medan

Email : mhdamin9977@gmail.com

ARTICLE INFO

Article history:

Received: 12/07/2020

Revised: 22/08/2020

Accepted: 30/09/2020

Keywords:

Systems, Application, Diklat Data

ABSTRACT

Technology and information that are increasingly developing and increasingly sophisticated must be balanced according to our needs. Due to the increasing complexity of the work that we do, it cannot be denied that every agency or other institution is in dire need of technology, which can simplify and speed up work. One of them we can use computer technology, especially computers that use desktop software.

So far, education and training staff if there are employees and prospective employees who want to take part in education and training, the data only exists on paper which contains employee and prospective employee data forms, so that data regarding education and training transactions, costs and employee data is not easily stored, if the staff education and training wants to recap the data, it is necessary to check the data archive of employees and prospective employees one by one.

Therefore, the authors try to design an information system that can later help Pelindo employees, especially the education and training section. Based on the results of these studies, the authors make a Data Training Application System at PT. Pelabuhan Indonesia I (Persero).

Copyright © 2020 Jurnal Mantik.
All rights reserved.

1. Introduction

Education and training data applications have been very developed in private or state companies, where among these companies have used an application that makes it easier for employees to record all training data every month. This desktop application is equipped with an admin password and a lot of forms for recording in each section and can only be opened by employees in the field of training and training recording.

PT. Pelabuhan Indonesia I needs a data recording application system, especially the employee training data recording section where their recording system is already using the program but the program is very slow to work and so many forms must be opened for recording purposes only, and employees are often hampered in recording employees because they have to type data repeatedly in all forms, and employees take a long time to record a lot of training data every month. So far, education and training staff if there are employees and prospective employees who want to take part in education and training, the data only exists on paper which contains employee and prospective employee data forms, so that data regarding education and training transactions, costs and employee data is not easily stored, if the staff education and training wants to recap the data, it is necessary to check the data archive of employees and prospective employees one by one.

PT. Pelabuhan Indonesia I (Persero) needs a new and easy to use program-based education and training data recording system in data input which will be very useful for PT. Pelindo I. By analyzing the above problems, the writer wishes to create a system that is expected to help simplify and speed up the process of recording data of program-based Pelindo employee training and training, for that the author chooses the title employee diklat on employee data application system PT. Indonesian Port i (Persero).[8]

Based on the background of the problem that has been described previously, the authors formulate the problem as follows: How to speed up and make it easier for employees to record all employee data, so that employees of PT. Pelabuhan Indonesia I easily in terms of recording education and training data and employees no longer have difficulty inputting a lot of data every month. The author limits the problem as follows: The author only discusses how to record training data easily and quickly in using the program.[9]

The research objectives are: to design an easy and fast data recording system for employee training /



training for employees and prospective employees. Make it easier to record and run programs.

2. Literature

A. Education and Training

"Training is the process of implementing teaching and learning in order to improve the ability of Civil Servants. In order to achieve maximum efficiency and effectiveness, there will be arrangements and implementation of education and training for the positions of Civil Servants with the aim of improving service, quality, expertise, abilities and skills." [1].

B. System Application

"The system is a collection of elements that are interrelated and work together to process the input shown to the system and manage the input until it produces the desired output. Application is a sub-class of computer software that utilizes direct computer capabilities to perform a task that the user wants. Application system is a collection of objects such as people, resources, concepts, and procedures that are intended to perform an identifiable function or to serve a purpose. For example, a university is a system of students, faculty, staff, administration, buildings, equipment, ideas, and rules with the aim of educating students, producing research, and providing services to communities (other systems)" [2].

C. Programming Language

"Program language is a kind of problem-solving method provided in computers for use by humans to simplify their work / activities, programming is to give commands in such a way as to "create" the program which is then stored in computer memory. Then, what is "ordered" on the computer so that the program can be formed. "A program designed to translate instructions written in a programming language into machine language so that it can be understood by computers." [4].

D. Database

"A database (or database in Indonesian) is a structured collection of records or data stored on a computer system. Open database connectivity (ODBC) is a standard that defines how application programs communicate with database servers. ODBC defines the Application Program Interface (API), which is an application that can be used to open a relationship with the database, send requests and updates, and send back the results. Applications such as a graphical user interface (GUI), statistical packages, and sheets all-round (spreadsheet). Microsoft SQL Server is a new breakthrough from Microsoft in the database field. Sql server is a DBMS (database management system) created by Microsoft to be involved in the competition in the world of data processing following introductions such as IBM and Oracle. Crystal Report is one of the many application programs used to create reports. Crystal Report makes it easier for users to create reports through visuals." [5].

3. Research methods

A. Research Design

Broadly speaking, the stages of the entire study are as follows:

1) Describe the Problem

Describing the problem clearly will help in designing and creating a system of education and training applications that will be studied must be described first, because without being able to describe the problem, determine and determine the limits of the problem to be studied. studied, there will never be a best solution to the problem. So this step is the most important first step in this research.

2) Problem Analysis

The problem analysis step is the step to understand the problem that has been determined in its scope or boundary. By analyzing the problems that have been determined, it is expected that the problem can be understood properly.

3) Setting Goals

Based on the understanding of the problems of the problem, the objectives to be achieved in this study are determined. In this goal the targets will be determined, especially those that can overcome the existing problems.

4) System Design

This stage is the application system design stage that is made, at this stage the application system design and database design will be used as a system implementation trial.

5) Making The System

This stage is the stage of making an education and training application system based on database design that will be used as a data storage medium..



6) System Testing

System testing is done by testing the data storage media as a trial for inputting data and then analyzing the computerized education and training application system.

7) Testing Results

At this stage the process of making conclusions and suggestions about what to do during the research. Conclusions and basic suggestions which are the result of analysis and discussion. Conclusions and suggestions are needed for further system development.

B. Research Design

In this study a block diagram design of the system is made. The block diagram design can be seen in the picture below:

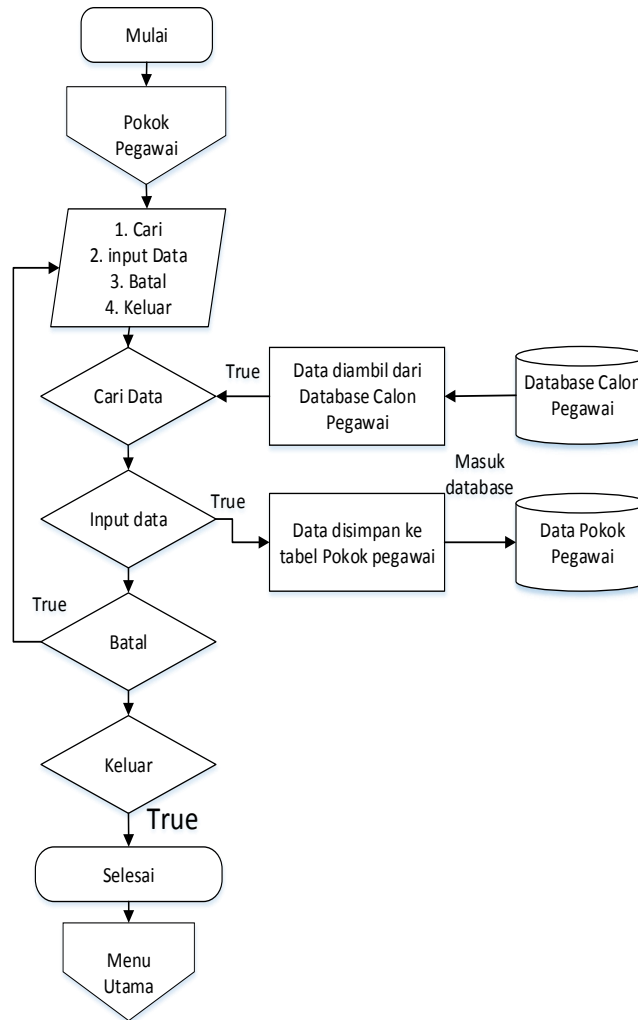


Fig 1. Flowchart

The following are some of the flowchart designs in making PT. Pelabuhan Indonesia I (Persero), which aims to help system analysts and programmers to solve problems into smaller parts in analyzing the operation of the designed program. It is the initial application opening as well as a link to the main program menu. Equipped with a username and password as the security system, which if both are correct it will enter the main menu. It is the main page of the application which consists of a support menu, such as transaction data, data, reports, tools and settings. In the data input design for prospective employees, this will be part of the input of all prospective employee data.

4. Results and Discussion

The following are some of the flowchart designs in making PT. Pelabuhan Indonesia I (Persero), which aims to help system analysts and programmers to solve problems into smaller parts in analyzing the operation

of the designed program.system 32 bit, Processor: Intel(R) Core-i3 1.4 GHz, RAM 2 GB, Hardisk 500 GB. Software is a computer program that includes an operating system (OS), programming language (programming language), and application programs (application).Microsoft Windows 7 operating system, SQL Server 2008 R2 Database, Microsoft Visual Basic 2012.

The way the transactions from the Sub Master itself are not much different from each other, which includes the Save, Cancel, and Cancel buttons. The add save button is used to add data or save data that has been inputted, the cancel button is used to cancel and re-empty the input data.

The screenshot displays the 'DATA CALON PEGAWAI' (Prospective Employee) form within the 'PT. PELABUHAN INDONESIA I (PELINDO) PERSERO' application. The interface includes a menu bar with options like 'Transaksi', 'Data', 'Laporan', 'Tools', and 'Pengaturan'. Below the menu are icons for 'DATA PEGAWAI', 'DATA PEGAWAI DIKLAT', 'NOMOR REKENING', 'PENDIDIKAN PEGAWAI', 'LAPORAN BIAYA DIKLAT', and 'LOG DUIT'. The main form area contains several input fields and dropdown menus for entering employee data, such as 'Nama', 'KTP', 'Status Pegawai', 'Jenis Pegawai', 'Status Awal', 'Tempat Lahir', 'Alamat', 'Jenis Kelamin', 'Pendidikan Utama', 'Golongan', 'Cabang/Uhid', 'Alamat Email', 'Gaj.Pokok A', 'Bidang', 'Divisi', 'Jabatan', 'Pelayanan', 'Masa Kerja Efektif', 'Masa Gaji', 'Masa Jabatan', 'T.M.T', 'Kebangsaan', 'No. Bani Pustaka', 'Tg. Cabang', and 'Tg. Pindah'. On the right side of the form, there are three buttons: 'Save', 'Cancel', and 'Exit'. At the bottom of the window, a status bar shows system information like 'Admin | Pelanggan | Padan | Nama Computer: MHCpelindo-PC | Komputer: 127AR.1 | Waktu: 12:58:27 | Hari: Senin, 11 April 2016'.

Fig 2. Prospective Employee Transaction Form

In the data display menu, the admin (employee) sees all the data that has been inputted into the database contained in data forms, this data display itself is not much different from the others, which includes a Refresh button, set print, delete, edit / see, print one data, print all (all data) and export to Microsoft Excel.

The Refresh button is used to refresh all data or display data stored in the database, the set print button is used to set the report or report settings that you want to display, the delete button is used to delete data records that are deleted, a message will appear to convince the user, when the ok button on the message dialog is clicked, the data will be deleted, when the no button is clicked the data will not be deleted by the system. Edit to change previous data, one data print button is useful for printing selected data only, print all button is useful for printing all employee data, export excel button is useful for exporting all data in the database into a Microsoft excel file.This form functions to view / print the entire report data from employee data following training, prospective employees, principal employees, employee education and employee expenditure funds, it is enough to enter data on name, nipp, division, account number, type of education and data on the end date of the report. want to see / print. The print button is used to display reports of transaction data.

Nama	No	Status	Pegawai	Foto	Jenis Pegawai	Status Adm	Golongan	Sertifikat	Tgl_Lahir	Tgl_Lahir	Alamat	Jenis Kelamin	Aksi
DIYANA MIZI	20420074	ya	aktif		CAKUP PEGAWAI	aktif	I	gammata	04/04/2015	04/04/2015	gammata	PERA	Refresh
M. HANIKO PA.	20427231	ya	aktif		CAKUP PEGAWAI	Tidak aktif	A	p. b. b. d. k. a. e. d. a.	13/11/1995	13/11/1995	Jl. Andara pet.	PERA	Refresh
EYFANI MARS	20427286	ya	aktif		CAKUP PEGAWAI	aktif	AB	ah. de.	26/04/2016	26/04/2016	kecup	PERA	Refresh
RISKY KODOR S.	20420217	ada	tidak		PEGAWAI	aktif	BE	aj. b.	06/04/2016	06/04/2016	sekarang k. a. e. d. a.	PERA	Refresh
ERHANS AKHIL	2042029	ya	aktif		PEGAWAI	Tidak aktif	AB	am. a. g. c. a. n. t. a. r. o.	18/11/1995	18/11/1995	Jl. anang k. a. e. d. a.	PERA	Refresh
NOVIA PRATI	20420465	ya	aktif		CAKUP PEGAWAI	aktif	II	h. u. a. r. a.	15/08/1995	15/08/1995	Jl. anang k. a. e. d. a.	PERA	Refresh
ANGGA HERIAN	20420475	ya	aktif		CAKUP PEGAWAI	aktif	B	h. a. l. i. m. a. n.	12/10/1994	12/10/1994	belawan m. i. d. a.	PERA	Refresh
PADLIAN RIKSIA	20420487	ya	aktif		PEGAWAI	aktif	A	p. a. t. i. a.	12/04/2016	12/04/2016	Jl. b. a. n.	PERA	Refresh
ALDOO UNTO S.	201204702	tidak	pegawai		CAKUP PEGAWAI	Tidak aktif	A	h. i. t. a. r. h.	08/08/1994	08/08/1994	donat.	PERA	Refresh

Fig 3. Prospective Employee Data Form

This application is exceeded by the database backup form which will greatly help the admin to backup all previously stored data. On the backup button, click while the Server name and database have not been selected, a message will appear "Please select the database to be backed up". When the admin has selected the server and database and then clicked, a message will appear where to select the database storage.

In this process the admin will import field data and account numbers for each division. Field data and account numbers will be stored in the database which will automatically appear on the prospective employee and employee transaction form. This application uses a user trial system or what is commonly called the active period which is very important for all software, to protect copyright or theft of the application. The Trial Form is deliberately not activated / displayed in the Application Program (Hide) because the application is not suitable if there is an additional trial system.

5. Conclusion

The final result of a discussion requires a summary as a writing outline. Likewise in this final project which requires conclusions and further suggestions from the development and learning that the author did while doing research at PT. Pelabuhan Indonesia I (Persero). A lot of experience that the author got while doing research at PT. Pelabuhan Indonesia I (Persero), such as how to process education and training transactions, record in the education ledger, pay expenses for education and training employees and also prepare reports to be submitted to the leadership. Based on the research results, the writer can draw several conclusions, namely:

- 1) When handling the transaction process, employee data must be manually input into Microsoft Excel by the Admin.
- 2) Admins are often overwhelmed when making training reports, because they have to collect back employee data recaps and prospective employees from each form.
- 3) The education and training data application can only be accessed by employees of the education and training section.
- 4) Main menu facility makes it easier for employees to conduct employee transactions and prospective employees.

- 5) It is hoped that this program will make it easier for companies to store, recap data and report data related to employee transactions and prospective employees to attend education and training..

6. References

- [1] Subhan, A.-B. b. (2008). Kumpulan Sistem Pada Rangkaian Komputer. Yogyakarta : Graha Ilmu.
- [2] Andri. (2014). Aplikasi Data Mahasiswa Berbasis Android Studi Kasus STMIK-MURA. Lubuklinggau: Jurnal Tugas Akhir.
- [3] Priyanto, R (2009). Langsung Bisa Visual Basic. Net 2012. Yogyakarta: Andi.
- [4] Indarwoko, S.Kom. (2013). Logika & Algoritma Dasar Menggunakan Bahasa C++. Jakarta : Mitra Wacana Media.
- [5] Hartini, S.Kom. (2009). Database dengan SQL Server 2005 (Basic dan C). Mitra Wacana Media.
- [6] Adi. (2011). Perancangan dan Implementasi SISTEM BASIS DATA. Yogyakarta: Penerbit Andi.
- [7] Octaviani. (2010). SQL Server 2008 Express. Yogyakarta : Penerbit Andi dengan WAHANA KOMPUTER Semarang.
- [8] Muhammad Syahputra Novelan, Z. S. (2020). Sistem Kendali Lampu Menggunakan NodeMCU dan Mysql Berbasis IOT (Internet Of Things). *InfoTekJar: Jurnal Nasional Informatika dan Teknologi Jaringan*, 117-121. <https://jurnal.uisu.ac.id/index.php/infotekjar/article/view/2976>
- [9] Purwa Hasan Putra, M. S. (2020). PERANCANGAN APLIKASI SISTEM INFORMASI BIMBINGAN KONSELING PADA SEKOLAH MENENGAH KEJURUAN. *Jurnal Teknovasi: Jurnal Teknik dan Inovasi*, 1-7.
- [10] Dedi, R. (2007). Langkah Mudah Microsoft Excel 2007. Jakarta : Lentera Ilmu Cendekia.
- [11] Antonius Rachmat C. (2010). Algoritma dan Pemograman dengan BAHASA C. Yogyakarta : Penerbit Andi.

