# Analysis of employee data system the national narcotics argency of south sumatera selatan

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**A B S T R A C T**

The development of science and technology, especially in the field of information technology, has brought great changes to the development of information or agency, the development of information technology can be used to support organizational activities in goverment agencies are always in touch with the community, the development of information technology ca be used optimize public service to be more effective and efficient. Utilization of information technology in a goverment organization is increasingly needed, including in the national narcotics agency. Because in improving sector services to support the goverment's role in public administration, because very rapud technological developments lead an agency to obtain information more quickly and accurately. With the existence of an integrated information system for data management, it will facilitate of the performance of employees at the national narcotics agency.

## I.  Introduction

The development of science and technology, especially in the field of Information Technology, has brought great changes to the behavior and lifestyle of the community. For an organization or agency, the development of Information Technology can be used to support organizational activities in storing and managing data and providing services to customers. And government agencies are always in touch with the community, the development of Information Technology can be used to optimize public services to be more effective and efficient.

Utilization of Information Technology in a government organization is increasingly needed, including in the National Narcotics Agency, because in improving sector services to support the government's role in public administration, because very rapid technological developments lead an agency to obtain information more quickly and accurately. The existence of an integrated information system for data management will facilitate the performance of employees at the National Narcotics Agency.

The government always strives to create services with good, efficient, and effective performance. This has been stated in the Decree of the President of the Republic of Indonesia Number 34 of 2003 concerning the National Policy in the Field of Personnel which has mandated that all local governments must implement computer-based data processing processes. The government must be able to optimize the quality of services, one of which is service in the field of personnel.

With the existence of the Personnel Management System (SIMPEG) it is hoped that the speed and provision of services can be improved. Most computer processing systems initially followed the manual processing system design where each application was processed separately using separate files. This method has processing and control efficiency, but this leads to irregular duplication of files and files, some of which have the same data field so that there is data that is often inconsistent. So that with the Personnel Management System (SIMPEG) the data is stored neatly because all the data that has been inputted by each employee is sent directly to the center.

The information system of the National Narcotics Agency has been used by some employees, but in its implementation there are still problems, among others, the lack of interest of employees in using the employee data system. Therefore, it is necessary to study the elements that are deemed necessary to be improved with the aim of creating quality services.

So in this study the authors are interested in discussing it in a form of research with the title "Analysis of Employee Data Information Systems at the National Narcotics Agency Using the Pieces Method".

## II. Method

### 2.1. Running System Overview

The employee data system at the National Narcotics Agency of South Sumatra Province has a process flow for the system, the parts involved in this system have their respective duties, In the current system, employee data processing already has a system, it's just that the employees lack of interest about an existing system, to describe the flow of the system that is currently running, the author describes it in the form of a flowchart which can be seen in the following figure:
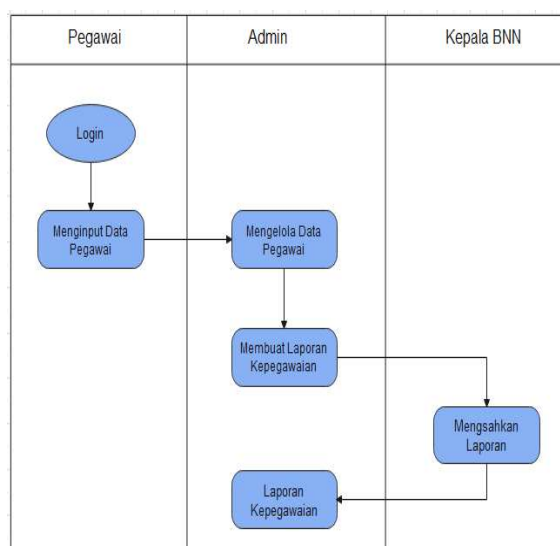


Figure 1. Flowchart Running System Overview

Based on the flowchart diagram above, the running employee data is described by the flowchart diagram above, which has the following activities:

a) 1 System flowchart diagram that includes employee data processing activities.
b) 4 actors who carry out activities including Employees, Admin, Secretary and Head of BNN
c) 6 flowcharts including logging in, inputting data, managing employee data, making employment reports, ratifying reports, staffing reports.

### 2.2. Method Analysis System

According to Wukil Ragil (2010:17) the PIECES method is an analytical method as a basis for obtaining more specific issues. In analyzing a system, it will usually be carried out on several aspects including performance, information, economy, application security, efficiency, and customer service. This analysis is called PIECES Analysis (Performance, Information, Economy, Control, Efficiency and Service) [1].

According to Al fatta (2007:51), the method uses six variables, namely Performance, Information/Data, Economic, Control/Security, Efficiency, and Service. [2].

According to James Wetherbe (2012), the PIECES method is to correct or improve information systems for decision makers in an organization. The following is a list of the corresponding problems faced by the organization [3].

After carrying out the data collection process, the data obtained is processed and analyzed, in analyzing the system there are several systems analysis methods, one of which is the analysis of Pieces. In this study the author uses the method of analysis Pieces. Pieces analysis is a system used for analysis of work systems in a company or organization, which has six analysis criteria, namely:

1) Performance

Performance is an analysis of the system's ability to complete tasks well.

2) Information

Information is the most important thing for a user on a system in making decisions.

3) Economy

Economy is the use of advantages or disadvantages that will be obtained in the application of the system.

4) Control

Control useful for improving system performance, preventing or detecting abuse or system errors.

5) Efficiency

Effiency related to the utilization of existing resources so that they can be used as best and as economical as possible

6) Service

Service is a description of the current situation regarding the services provided by the existing system

### 2.3. Method Of Collecting Data

According to Riduwan (2010:51) the data collection method is one of the methods in data collection by using

techniques or methods used by researchers to collect data [4].

The stages of the data collection method are as follows:

a) Observation

Observation is to make direct observations by coming to the office of the National Narcotics Agency of South Sumatra Province, observing the system is running at the office of the National Narcotics Agency of South Sumatra Province.

b) Interviews

Interviews were conducted with the sub-head of staffing bid during the interview. The author asked about the current system.

c) Literature study

Literature study is a method of collecting data from books and journals to be used as references.

## 2.4. Data Source

The definition of data sources according to Suharsimi Arikunto (2013:172) is: "The data sources referred to in the research subject from which data can be obtained" [5].

Determination of data collection methods in addition to the types of data that have been made in advance. Sources of data used in this writing are as follows:

a) Primary Data, namely data obtained directly from data sources by way of answers or responses or several questions asked about processing employee data at the National Narcotics Agency of South Sumatra Province.
b) Secondary Data, is data obtained indirectly from various sources, both written sources and oral sources related to the problems of processing employee data at the National Narcotics Agency of South Sumatra Province which were studied in the form of regulations, archives, documents and others.

## 2.5. Data Processing

According to Sutabri, data processing can be described as follows, namely: According to Sutabri (2013:21) data processing is the manipulation of data into a form that is useful and more meaningful, in the form of information that can be used by people who need it [6].

Based on the opinions expressed, it can be concluded that data processing is a collection of several files that are processed by going through the stages of examination, comparison, selection, summarization and use to obtain convenience in data retrieval.

According to Edi (2009:72), "Data is formed from characters that can be in the form of the alphabet, numbers, or special symbols and is a form that is still raw so it needs

to be processed further through a model to produce information" [7].

Based on the opinions expressed above, it can be concluded that data processing is a collection of several files that are processed by going through the stages of examination, comparison, selection, summarization and use to obtain convenience in data retrieval.

## III. Results and Discussion

Based on the analysis of a system carried out using the Pieces method, the results of the analysis of the system are obtained, following the analysis table:

**Performance**

Tabel 1. Performance analysis results

| No. | Parameter | Result Analysis |
|---|---|---|
| 1 | Throughout | The process of processing employee data is still done manually, for examplein inputting data |
| 2 | Response Time | Response time for the information needed is slow, for example thereis a delay in finding information about employees when needed |

**Information**

Tabel 2. Performance information results

| No. | Parameter | Result Analysis |
|---|---|---|
| 1 | Accurate | There is an error in data collection information because presentation information which be delived there is an arror on data entry. Example when ppresenting report information |
| 2 | Relevant | Respon time for information, which examples are slow needed existence lateness in search of information about employees moment are needed. |
| 3 | On time | There was a problem when taking decision sothere is a delay time of report will be input |

**Economy**

Tabel 3. Performance economy results

| No. | Parameter | Result Analysis |
|---|---|---|
| 1 | Cost | The use of ink, paper for sending outgoing letters or warrants, so that there is a waste because if an error occurs it cannot be used again |

**Control**

**Tabel 4.** Performance control results

| No. | Parameter | Result Analysis |
|---|---|---|
| 1 | Control of access right | There is no protection against data so data loss often occurs |

**Efficiency**

**Tabel 5.** Performance efficiency results

| No. | Parameter | Result Analysis |
|---|---|---|
| 1 | Cost resource | Excessive use of paper and ink due to errors in work process |
| 2 | Power Resources | Lack of interest employees in data processing cause the work to take a long time so that it slow down the work |

**Service**

**Tabel 6.** Performance service results

| No. | Parameter | Result Analysis |
|---|---|---|
| 1 | Report process | The current system service process has not made it easier for employees which resulted in frequent system errors resulting in errors in inputting report |

The following is the result of processing employee data from the National Narcotics Agency of South Sumatra Province.

**Data Processing**

Data processing is a collection of several files that are processed by going through the stages of examination, comparison, selection, summary and use to obtain convenience in data retrieval. Below are the results of employee data processing:



Figure 2. Employee Data

In the picture above there are several includes from the employee data above:

1) Personal data
2) Education data
3) Appointment history data
4) Job history data
5) Assignment history data
6) Award history data
7) Foreign language proficiency data
8) Regional language proficiency data
9) Self-defense/sports ability data
10) Brevet capability data
11) Periodic salary increase data
12) Leave outside the state
13) Family data
14) Organizational data Emergency contact data



Figure 3. Updating Data

## IV. Conclusion

Based on the results of the analysis and discussion of the system in the previous chapters, it can be concluded that the employee data information system at the National Narcotics Agency of South Sumatra Province resulted in the application of the Personnel Management Information System. The system that is running is good enough but there are still shortcomings, namely limited access rights to access the system. This system can also be accessed via laptops and mobiles. This really helps employees to more easily access the system.

## References

[1] W.Ragil, PIECES System Analysis, Jakarta: Workpress, 2010.
[2] Alfatta, Pieces with six variables, Jakarta: Billpress, 2017.
[3] J. Wetherbe, Understanding The PIECES Method, Jakarta,2012.

[4]  Riduwan, Data Collection Methods, Tangerang: Ekspress, 2010.

[5]  S.Arikunto, Understanding Data Source, Yokyakarta, 2013

[6]  Sutabri, Data Processing, Jakarta, 2013.

[7]  Edi, Understanding Data Processing, Bandung, 2009.