

# CEMETERY SERVICE INFORMATION SYSTEMS IN THE GENERAL CEMETERY IN MENTENG PULO JAKARTA

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**Abstract--** Developments in information technology over the years that the sooner be a challenge for users of information technology itself and encourages every sector, both formal and informal organizations or other institutions to be able to use it to support work activities, so as to produce information quickly, precisely, and accurate. To achieve this goal, it is necessary to support resources such as software that can be relied upon its ability to process information as well as human resources should have a mastery of information technology itself. The development of information systems today require a system that is appropriate for each activity undertaken . As best support decision support . In this case the field of funeral . The increasing need for information and the evolving role of the system we need a good management system . The more complex the problems that occur , the greater the needed information . The problem being faced is the data collection and recording procedures are not going well , the physical evidence was not stored properly , archive storage space is inadequate , less neatly arranged burial sites and human resources are less skilled . The results of the study are in reducing mistakes made by humans , recording procedures and data storage for the better, does not require a large storage space , improves the performance of employees in serving customers .

Keywords : information technology, human resources, data storage, performance, mistake

## I. INTRODUCTION

The development of information technology [7] so quickly from year to year so a challenge for both users in an organization or institution to be able to utilize these technologies as supporting activities that work fast, precise and accurate. Human resources and software is needed so that the required ability and mastery of the software to be implemented in every day activities in the office. The development of information systems today requires the design of a system that fits your needs, as best supporting decision support, such as in the area of the cemetery. The increasing need for information and the role of systems continues to grow we need a good management system. The more complex the problems that occur, the greater the needed information.

Taman MentengPulo Cemetery is a family cemetery Jakarta office, under the auspices of the Department ethnic landscape Jakarta Park and Cemetery, which is engaged in such services, funeral services new, pemakam ride services, service user license extension ground tombs, and the use of equipment maintenance bodies. The use of appropriate technology, in order to be a good impact on the course of the funeral service. For it in terms of workmanship funeral activities. General Cemetery MentengPuloneed funeral services. In this case the funeral services are still using a system of writing in the book BladOr ledger funeral, such as the new cemetery, funeral overlap, the extension of the user's permission tomb, until the funeral report generation. Frequent occurrence of errors made (human error), and the amount of time required for report generation. To overcome these problems, it is necessary that a funeral service information system appropriate to the needs of the cemetery.

The results obtained after the information system is able to reduce errors in recording the data funeral is often done by humans (human error), the physical evidence SKRD letter / receipt can be printed directly every funeral and automatically process the data stored neatly in the computer, data storage process large quantities have been able to be overcome with the database and the cemetery staff can work efficiently and if ahliwaris not bring documentary evidence burial / tomb to tomb of data duplication and extension. Burial process could still take place because there is a tomb of data stored in the database.

## II. LITERATURE

### a. Understanding System

The system is a set of subsystems that are related to each other that interact together according to a certain pattern to the input with the goal of producing output.

According to Tata Sutabri [2], the system can be defined as a collection of two or more components that interact to achieve a certain goal. The system is a combination of subsystems smaller, each subsystem has a specific function that is important and supports larger system. All subsystems that exist in a system interconnected with each other, due to changes in one subsystem will have an impact or effect on other subsystems.

### b. Definition of Information

The information is the result of processing the data in a more useful and meaningful for the recipient which describes a real events that are used for decision making. [2], [3]

The quality of the information depends on three things, among others:

#### 1) Accurate

Accurate means that information should be free of errors and not misleading. Accurate also means that the information must clearly reflect the intent.

Information must be accurate because of the resources to the recipient of the information is likely that many disturbances that can alter or destroy the information.

#### 2) Just in time

Just in time means that the information that comes at the receiver should not be too late. Information that is outdated will not have value anymore because information is a cornerstone in the decision-making.

#### 3) Relevant

Means that information has benefits for the wearer

### c. Understanding Information Systems

System Information is extremely important to support all levels of management in an organization in providing information and in decision-making. And according to John W.Satzinger [6] on the essay book defines information systems as:

"Information System is defined as a collection of interconnected parts that collect, process, store, and provide, as a result of the information needed to settle business".

The purpose of the Information Systems provide information to all levels within the organization whenever needed. These systems store, retrieve, modify, manage and communicate information received using information systems. Based on the above theories, we can conclude that the information system is a collection of components, can be a human, software, hardware, communication networks, and related data sources that collect and deliver data and information to provide feedback to the media convey a purpose

### d. Definition of Cemetery Service

Funeral Service is Everything funeral service activities to assist and meet the needs of Ahliwaris based regulations by creating something that previously did not exist into existence, including efforts to retain existing within the limits of efficiency.

### e. Cemetery Service Information System Definition

Funeral Service Information System is a computerized process to cultivate the necessary requirements funeral service funeral service rates. Funeral service procedure consists of: Demand tomb, funeral services new, tomb overlapping services, the extension of the tomb, as well as in the report Making funeral services required by the municipality.

Funeral services system is divided into the following procedures:

#### 1) Procedures Tomb request

#### 2) New Cemetery service Procedure

#### 3) Overlapping Funeral service Procedure

#### 4) Extension procedure Tomb

#### 5) The procedures for reporting services Tomb

**III. RESULTS AND DISCUSSION**

**III.1. Analysis System**

Analysis of the decomposition system is a complete information system into its component parts which aims to identify and evaluate the problems, opportunities, barriers that occur and determine the need for repairs so it can be proposed.

The steps in the analysis are generally as follows:

**a. Preliminary analysis**

In a preliminary analysis was conducted to obtain information gathering overall picture of the place that will be analyzed. Preparation of the proposal and implementation of systems analysis.

**b. Implementation of systems analysis**

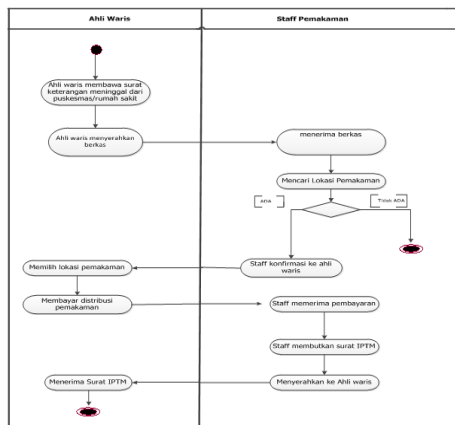
Implementation of system analysis is based on the work plan as outlined in the proposed analysis system.

**c. Preparation of reports on the analysis of system**

The final results of analysis are presented in the form of a system of reports useful in making decisions that determine.

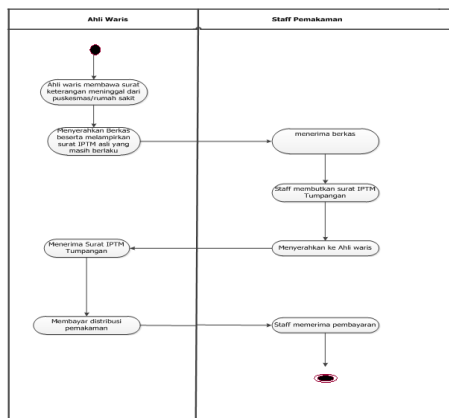
**III.2. ANALYSIS PROCESS**

**3.2.1. PROCESS NEW CEMETERY**



**Fig 1. New Burial Process Activity Diagram**

**3.2.2. Overlapping Funeral Process**



**Fig 2. Funeral Overlapping Process Activity Diagram**

**3.2.3. Process Extension Soil Tomb.**

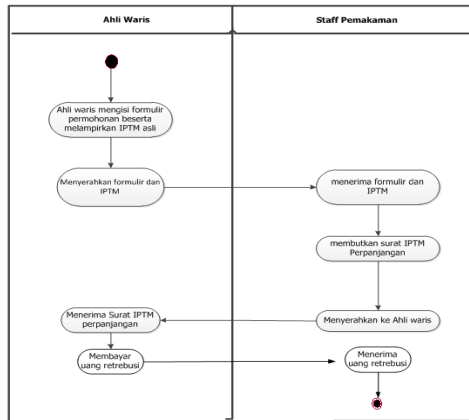


Fig 3. Process Extension Soil Tomb Activity Diagram  
**4. USE CASE DIAGRAM**

**4.1. PACKAGE DIAGRAM.**

Package diagram is a diagram of the design of the system requirements Funeral Service at General Cemetery MentengPulo is as follows

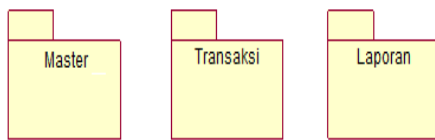


Fig 4. Package Diagram

**4.2. USE CASE DIAGRAM FILE MASTER**

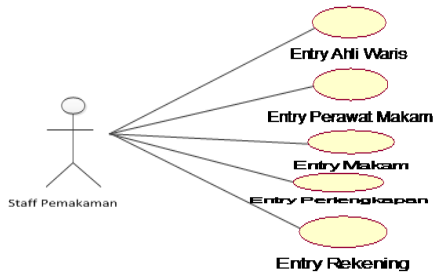


Fig 5. Use Case Diagram File Master

**4.3. USE CASE DIAGRAM TRANSAKSI**

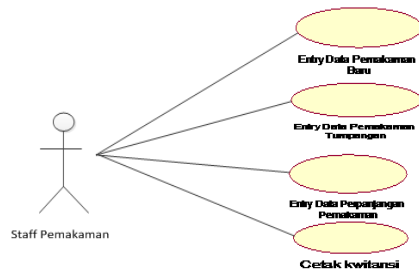


Fig 6. Use Case Diagram Transaksi

4.4. USE CASE DIAGRAM LAPORAN

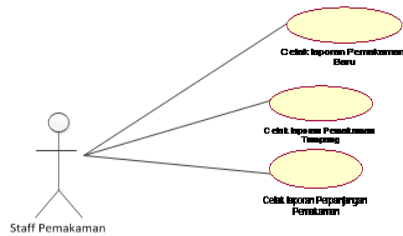


Fig 7. Use Case Diagram Laporan

1. System Design

System design is the process of observation of the state of a funeral service with the aim to determine the operational situation in the funeral services require a repair or not that includes the identification of a problem, a problem analysis and resolution of a problem.

The purpose of the system design are:

- a. To develop new methods, new procedures and new techniques into a more efficient system.
- b. To meet the needs of users on the system.
- c. To provide a clear picture and a complete design computer programs and other technical experts involved.
- d. To be able to know the situation in the operations and these operations require an improvement or not.

Design components are generally as follows:

a. Designing Model

System analysis can design a model of the proposed information system in the form of physical and logical design of the model output. The output is a product of a system of information that can be seen in the form of display media paper or computer screen.

b. Design of Feedback

Input devices can be categorized into two groups, namely direct input devices and indirect input devices. Direct input device such as a tool that is directly connected to the CPU (central processing units) are indirect input device is a device that is not directly connected to the CPU.

c. Designing Database.

Database is a collection of data related to one another. The data is stored on external storage and used computer software (Software) for its application.

d. Design of Control

A system is subject to errors in processing (miss management). Control applied to the system very useful information to prevent and track the things that are not desirable or control errors.

3.3.1. Design Database

3.3.1.1. Entity-Relationship Diagram

Entity Relationship Diagram (ERD) technique approach is a model that represents or depicts the relationship of

a model [1], [4], [5]. The relationship expressed in the main of which is the depiction of the Entity Relationship Diagram is used to show the data objects (entities) and relationships (relationships) that exist in the next entity. Here is Entity Relationship Diagram which is obtained based on the results of the analysis, which can be seen in the image below:

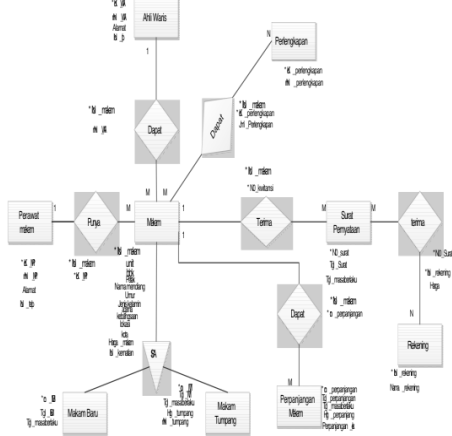


Fig 8. Entity Relationship Diagram

2. LOGICAL RECORD STRUCTURE

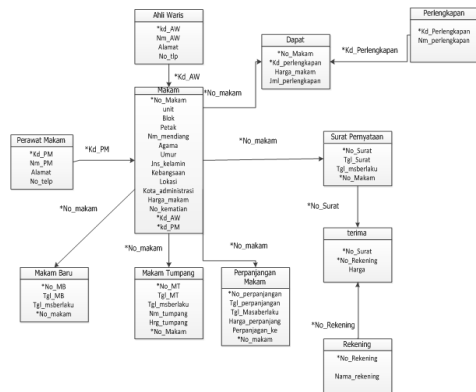


Fig 9. Logical Record Structure

2. DRAFT SCREEN.

3.3.2.1. MAIN MENU SCREEN DESIGN



Fig 10. Main Menu Screen Design

### 2.2. SCREEN DESIGN NEW CEMETERY

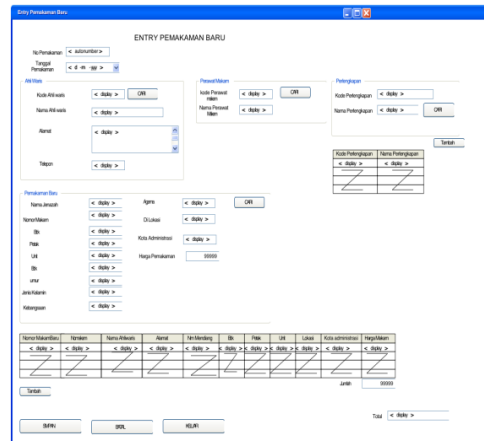


Fig 11. Screen Design New Cemetery

### 2.3. Screen Design Report

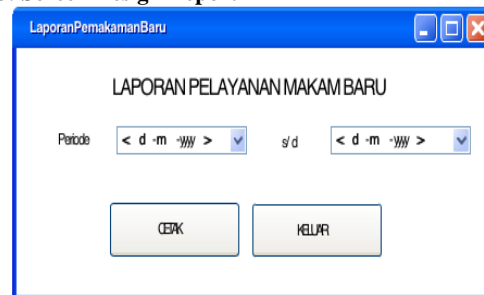


Fig 12. Screen Design Services Report New Cemetery

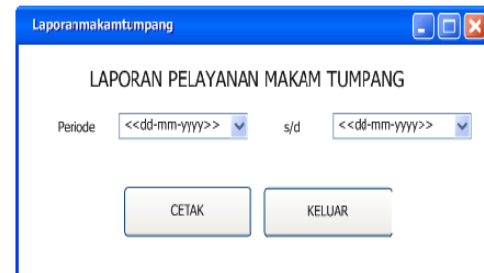


Fig 13. Screen Design Services Report Overlapping funeral

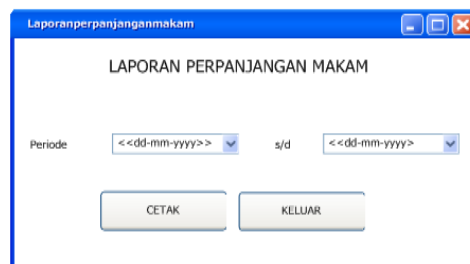


Fig 14. Screen Design Services Report Overlapping funeral

#### IV. CONCLUSION

Based on the research that has been done then the planning system on the ground Funeral Service funeral General. MentengPulo can be used as one of the perfect solution for running events service charge, then the results can be concluded that:

- a. With the computerized system can reduce errors in data recording cemetery is often done by humans (Human Error).
- b. With the computerized system, the physical evidence SKRD letter / receipt can be printed every existing direct burial and automatically process data stored neatly inside the computer.
- c. With the computerized system, the process of storing large quantities of data already can be resolved with the database used by the system.
- d. With the computerized system, the cemetery staff can work efficiently and if ahliwaris not bring letters funeral / cemetery data to perform surrogate tombs and renewal. Burial process could still take place because of existing data stored in the tomb of the database.

#### REFERENCES

- [1] Indrajani, *Perancangan basis data dalamAll in 1*, EdisiPertama. Jakarta: PT. Alex Media Komputindo, 2011.
  - [2] Sutabri Tata, *AnalisisSistemInformasi*, Edisisatu, CV Andi Offset, Yogyakarta, 2012
  - [3] Shelly, et.al. *Discovering Computers 2009 Complete*. Canada : Nelson, 2009
  - [4] A.S Rosa, dan M. Shalahudin .*ModulPembelajaranRekayasaPerangkatlunak( Terstruktur BerorientasiObyek)*. Bandung: modula,2011.
  - [5] Sholiq, *Analisanperancanganberorientasiobyek : konsepdasarberorientasiobyek*,Bandung : Mutiara Indah, 2010.
  - [6] *SatzingerJhon, System Analysis and Design in a Changing World* , 2010
- <[http://pertamananpemakaman.jakarta.go.id/page/profil/tentang-kami\(pengertianpelayananpemakaman\)](http://pertamananpemakaman.jakarta.go.id/page/profil/tentang-kami(pengertianpelayananpemakaman))> Di akses tanggal : 22-11-2013 Jam 15.30>
- [7] K.Raja, and R.Saravanakumar, "Evaluating Data Reliability: An Evidential Answer With Application To A Web-Enabled Data Warehouse", *International Journal of Innovations in Scientific and Engineering Research (IJISER)*, ISSN: 2347-971X (online), ISSN: 2347-9728(print), Vol.1, no.5, pp.359-365, 2014, <http://www.ijiser.com/>.
  - Rajesh, M., and J. M. Gnanasekar. "Annoyed Realm Outlook Taxonomy Using Twin Transfer Learning." *International Journal of Pure and Applied Mathematics* 116 (2017): 547-558.
  - Rajesh, M. & Gnanasekar, J.M. *Wireless Pers Commun* (2017),<https://doi.org/10.1007/s11277-017-4565-9>
  - Rajesh, M., and J. M. Gnanasekar. "GCCover Heterogeneous Wireless Adhoc Networks." *Journal of Chemical and Pharmaceutical Sciences* (2015): 195-200.
  - Rajesh, M., and J. M. Gnanasekar. "CONGESTION CONTROL IN HETEROGENEOUS WANET USING FRCC." *Journal of Chemical and Pharmaceutical Sciences* ISSN 974: 2115.
  - Rajesh, M., and J. M. Gnanasekar. "GCCover Heterogeneous Wireless Ad hoc Networks." *Journal of Chemical and Pharmaceutical Sciences* (2015): 195-200.





