



# Information System for Village Fund Assistance Management in Kelurahan Rantau Jaya Udik Sukadana, Lampung Timur

Eri Yuliawati Kusmiya

Department of Faculty Information Systems,  
Institute of Information Computer Science Darmajaya Business Bandar Lampung, Indonesia

## ARTICLE INFO

### Article history:

Received Aug 25, 2023

Revised Sep 10, 2023

Accepted Sep 20, 2023

### Keywords:

Website,  
Fund Management  
Information System Village,  
RUP (Rational Unified  
Process)

## ABSTRACT

Technological developments that are increasing increasing, encourage human nature to utilize and use technology as well as possible. The emergence of this research aims to facilitate the parties the village office of rantau jaya udik in managing village fund assistance and in take village funds. problems that often occur in the village village of rantau jaya udik is the financial management of village funds less accommodating in terms of the allocation of village funds in accordance with village needs, such as unclear and frequently changing finances not in accordance with village development planning, and in the distribution of village funds often have discrepancies with planning village development which is located in Sukadana District, Sukadana Regency, East Lampung. For that we need an information system that computerized system that is able to overcome existing obstacles and problems. The method used in making this system is by using the RUP (Rational Unified Process) method. Then The design is done by making Usecase Diagrams of the system that proposed, Activity Diagrams, Sequence Diagrams and Class Diagrams, and applied to a system for the manufacture of information systems Web-based. This research produces an information system management of village fund assistance for the village office of rantau jaya udik.

*This is an open access article under the [CC BY-NC](https://creativecommons.org/licenses/by-nc/4.0/) license.*



## Corresponding Author:

Eri Yuliawati Kusmiya,  
Department of Faculty Information Systems  
Institute of Information Computer Science Darmajaya Business Bandar Lampung, Indonesia  
Jl. ZA. Pagar Alam No.93, Gedong Meneng, Kec. Rajabasa, Kota Bandar Lampung, Lampung 35141,  
Indonesia  
Email: erikusmiya@gmail.com

## 1. INTRODUCTION

Village Funds are funds sourced from the State Revenues and Expenditure Budget Budget designated for Villages which are transferred through the Regional Expenditure Budget and revenues from districts/cities so that they can be used to finance the implementation of development and community and community empowerment. The aid fund for the rantau jaya udik village is Rp. 1,133 billion, which is used for road repairs, construction of culverts, posyandu, house repairs, toilets, Drenasel (water flow), Telpot (stone roads). And the types of village fund assistance are in the form of empowerment, development, community development, community sector, which are transferred through village accounts once every 1 year.

Village Fund Management is all activities that include planning, implementation, administration, reporting, and village financial accountability. The implementation of the Village Fund based on the right of origin and local authority at the Village scale is funded by the Village Budget. In addition to being funded by the Village Budget, the State Revenue and Expenditure Budget Fund is allocated to the ministry/institution budget section and is channeled through district/city regional work units. The implementation of village authority assigned by the regional government is funded by the regional revenue and expenditure budget. All Village income is received and distributed through the Village

cash account and its use is determined in the Village Budget. The disbursement of funds in the Village treasury account is signed by the Village head and the Village Treasurer.

The management of village funds is managed by the treasurer and village secretary in accordance with the APBDs that has been determined and made after the village aid budget has fallen. The problem that often occurs in the village village of Rantau Jaya Udik is that the financial management of village funds does not accommodate the allocation of village funds in accordance with village needs, such as unclear and often changing finances that are not in accordance with village development planning, and in the distribution of village funds often there is a discrepancy with the village development plan which is located in Sukadana District, East Lampung Regency. For that we need a computerized information system that is able to overcome existing obstacles and problems. From the description above,

## 2. RESEARCH METHOD

The method used to collect data is needed to complete and fulfill the data needed during research in the Village of Rantau Jaya Udik Village while the data collection methods used are as follows:

### a. Interview

Direct communication with sources, namely, the Village Head/Village Secretary and people within the scope of the Rantau Jaya Udik Village.

### b. Observation

Observation is a technique or approach to systematically obtain data regarding the information system for managing village fund assistance in Rantau Jaya Udik Village.

### c. Literature Study

Literature study was conducted to obtain data and information by reading several journals, scientific essays, and other sources regarding issues related to research.

### 2.1 System Development Method

The Unified Process or also known as the iterative and incremental process is a software development process that is carried out interactively (repeatedly) and incremental (gradually with an ascending process). Iterative if done in each stage or interactive stage in the software development process to produce incremental functional improvements, where each iteration will improve the next iteration. One of the famous Unified Process is RUP (Rational Unified Process).

### 2.2 The proposed system design

In the new system design sub-system will be explained about the components that will be used to nail a system design in the form of system design, input and output.

## 3. RESULTS AND DISCUSSIONS

Supporting Tools for System Development Supporting tools for developing an Information System for the Management of Village Fund Assistance in the Rantau Jaya Udik sub-district consist of several hardware and software. The supporting tools for making the system are as follows:

- a. Hardware Specifications (Hardware) The hardware specifications needed to be able to design the proposed system are as follows: ACER laptop with the following specifications: 1. Processor Intel® Celeron® CPU Dual-Core C70 @ 1.00 GHz 2. RAM 2.00 GB DDR3 3 .Harddisk 320 GB HDD.
- b. Software Specifications The software specifications needed to design the proposed system are as follows: 1. Windows 7 64 bit Operating System 2. Notepad++ 3. MySQL Server 4. XAMPP.
- c. System Implementation The implementation of the previously designed system consists of 4 (four) access rights, namely the access rights of the secretary as admin, village head, treasurer, and farmer group leader, while the explanation of the implementation of the system for each access is as follows.

- 1) Implementation of the Login Page System Implementation of the login page is used by the secretary (admin) to log in for system access permissions, when the login is successful, the system displays the secretary's main page which consists of several system menus, if the login is not successful, the system will not display the main secretary access page. such as inputting village fund assistance, planning activities and managing village fund assistance.



Figure 1. Image of the Implementation of the Secretariat Access Login Page

- 2) Implementation of the State Budget Display System The treasurer can input the budget date, the amount of the incoming budget and the remaining budget.

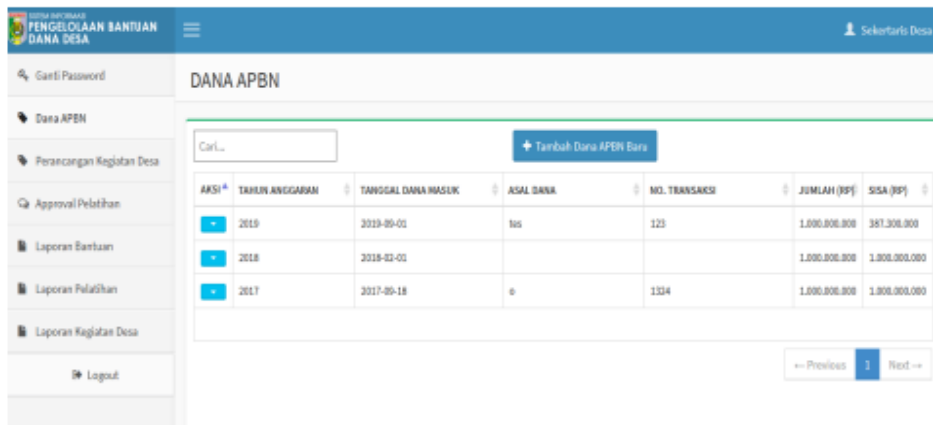


Figure 2. Image of the Implementation of the State Budget Fund Display System

- 3) Implementation of the Report Display system There are several reports views, namely: Assistance Report Display, Training Report Display and Village Activity Report Display, which are sent by the treasurer and farmer group leader. The following is the report display.

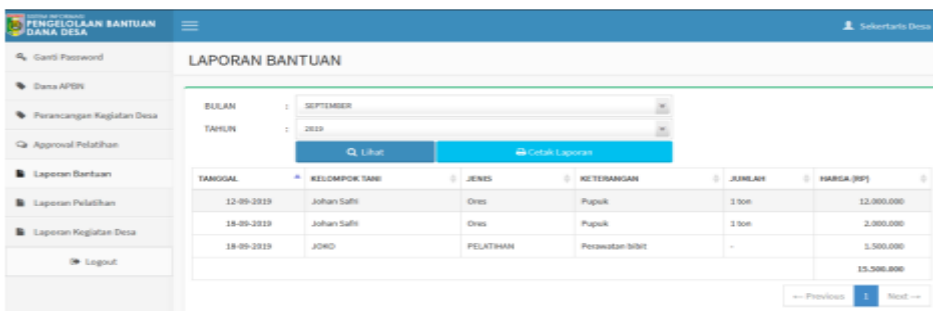


Figure 3. Help Report View

### 3.1 Data Analysis

In this study, data analysis was carried out on farmer groups in the village of Rantau Jaya Udik.

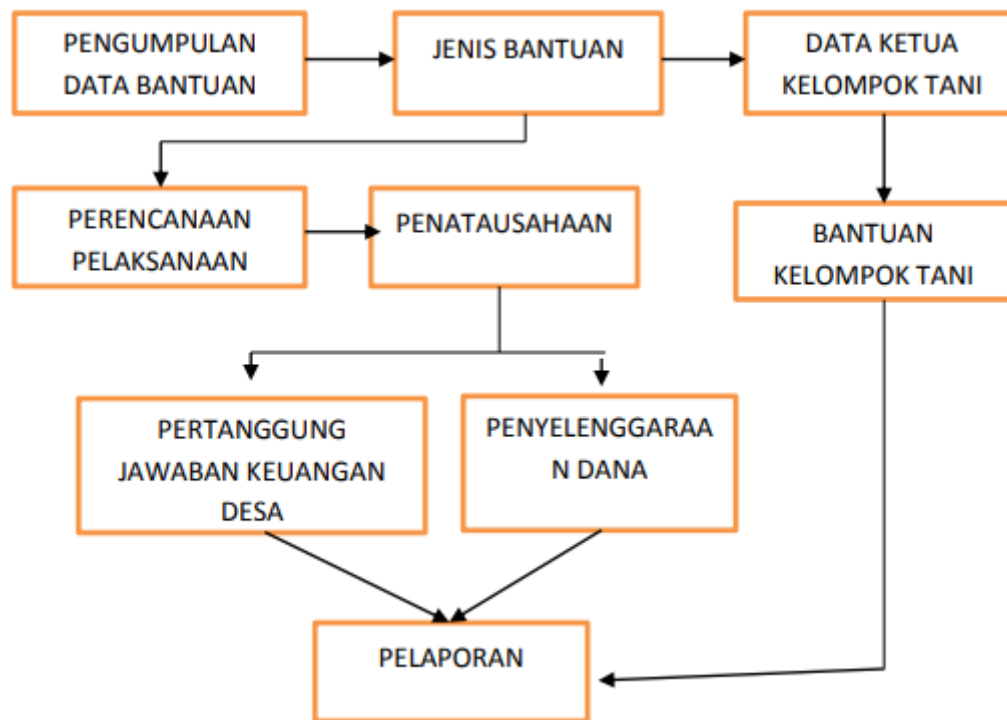


Figure 4. Data Analysis Stages

#### 4. CONCLUSION

The conclusions from the information system for managing village fund assistance in the Rantau Jaya Udik Village, Sukadana Lampung Timur are as follows. The system built is integrated between the village head, secretarial treasurer, and the head of the farmer group, so that it can make it easier to manage aid and submit training for the farmer groups themselves. The system built can make it easier to manage village fund assistance and manage activities that are being planned or activities that will be carried out. This system also makes it easier for the head of the farmer group to see farmer group assistance, take assistance, submit training and assistance as well as in making

#### REFERENCES

- Abdul, Kadir. (2014), "Pengenalan Sistem Informasi Edisi Revisi", Yogyakarta : Andi.
- Achmad Solichin, 2016, "Pemrograman Web Dengan Php Dan Mysql", Hal 10
- Achmad Solichin, 2010, "MySQL 5 Dari Pemula Hingga Mahir", Hal 23 Buana, I Komang Setia. 2014. Jago Pemrograman PHP. Jakarta : Dunia Komputer.
- Hidayatullah, Priyanto. 2014. Visual Basic .NET. Edisi Revisi. Bandung: Informatika Hajar, S. (2017). Rancang bangun sistem monitoring kegiatan kelompok tani berbasis web di kecamatan pattalassang kabupaten gowa sulawesi selatan (Doctoral dissertation, Universitas Islam Negeri Alauddin Makassar).
- Krismiaji, (2015), "Sistem Informasi Akuntansi", Edisi keempat, UPP STIM YKPN, Yogyakarta.
- Ladjamudin, Al-Bahra Bin. 2013. Analisis dan Desain Sistem Informasi. Yogyakarta: Graha Ilmu.
- Mulyadi. (2016). Sistem Informasi Akuntansi. Jakarta: Salemba Empat.
- Riyanto. 2014. Validasi dan Verifikasi.
- Deepublish: Yogyakarta Romney, Marshall B. dan Steinbart, (2015), "Sistem Informasi Akuntansi", Edisi 13, alihbahasa: Kikin Sakinah Nur Safira dan Novita Puspasari, Salemba Empat, Jakarta.
- Rusmayanti, A. (2013). Sistem Informasi Pengelolaan Keuangan Pada Desa Ngadirejan. Speed-Sentra Penelitian Engineering dan Edukasi, 6(2).
- Rosa, A. S. (2016) Rekayasa Perangkat Lunak terstruktur dan berorientasi objek.