



## Information and Analysis System Stages of Family Welfare in District Balong

Eka Arynda Ayu<sup>1</sup>, Ida Widaningrum<sup>2</sup>

<sup>1,2</sup>Informatics Engineering Departement, Universitas Muhammadiyah Ponorogo  
Email: ekaarynda.ea@gmail.com<sup>1</sup>, iwidaningrum@yahoo.co.id<sup>2</sup>

### Abstract

*Badan Kependudukan dan Keluarga Berencana Nasional (BKKBN)* is a family that formed due to legal marriage, is able to meet the needs of the spiritual and the material that is decent, devoted to God Almighty, have a relationship that is harmonious and balanced between members and between families with the community and the environment. Every year the government to collect data on the status of a prosperous family stage where the purpose of the data collection is in the framework of development and poverty alleviation programs. Data collection process in the District Balong is still done manually so that the risk of error in determining the status of a family stage could happen. Information and analysis system of status stages of family welfare is designed to make web-based officers in the input data and determine the status of a prosperous family stages based on selected indicators of the sheet R/1/KS. Sample of data from Bulukidul village and sub-district village of Balong Ngraket 2014. Results of the system in the form of data reports the results of process steps and the results can be viewed in graphical form. Comparison chart to show the status of the highest percentage of poor welfare families stages. Instead lowest percentage shows the stages of a prosperous family able or rich.

**Keywords:** Family Welfare, BKKBN, Information Systems, Indicators, Sheet R/1/KS

### 1. INTRODUCTION

In this globalization era, the existence of a realtime information, fast, and accurate becomes very important for human survival. *Badan Kependudukan dan Keluarga Berencana Nasional (BKKBN)* centers have children Ponorogo sub named Unit Pelaksana Teknis *Badan Keluarga Berencana (UPT BKB)* are scattered in every district. In Sub Balong, BKB Unit is in charge of disseminating the program of family planning and population data recorded in the Register sheet Prosperous (R/1/KS). BKKBN divided the prosperous family into several categories, disadvantaged families, prosperous families I, II family welfare, family welfare III, III +, and prosperous family. An indicator to determine the status of a prosperous family consisting of 21 kinds of indicators that have been set by the BKKBN. Researchers chose the theme of family welfare status due to stage a prosperous family is very important to know. The status of a prosperous family stages a family BKB Unit officers can group level based on family status stages. The purpose of the data collection stage of a prosperous family status is in the framework of development and poverty alleviation programs. The process of determining a prosperous family in District Balong is still done manually. The place for storage of data sheet R/1/KS in adequate cause difficulties in the search data when a time of need. It also requires a lot of energy and thought that the risk of error in determining the status of a prosperous family stages could happen. Web-based system is more precise because it is in use it can be done anywhere without having to install it first. UPT BKB so officers can just go to a website and then the user will be

exposed to the login interface then the user can directly access to the web. Most importantly there must be an internet connection. In addition, the analysis of the status of the stages of prosperous families in the form of a graph so that we can know the status of the level comparison stage Balong prosperous families in the district. Based on the above problems, the authors are interested in Information and Analysis System Stages of Family Welfare in District Balong web-based using the programming language *PHP* and *My SQL*.

## 2. METHODS

### 2.1. Design Method

In this study the authors conducted a design method or methods Waterfall. The next steps design method Waterfall can be seen in Figure 1.

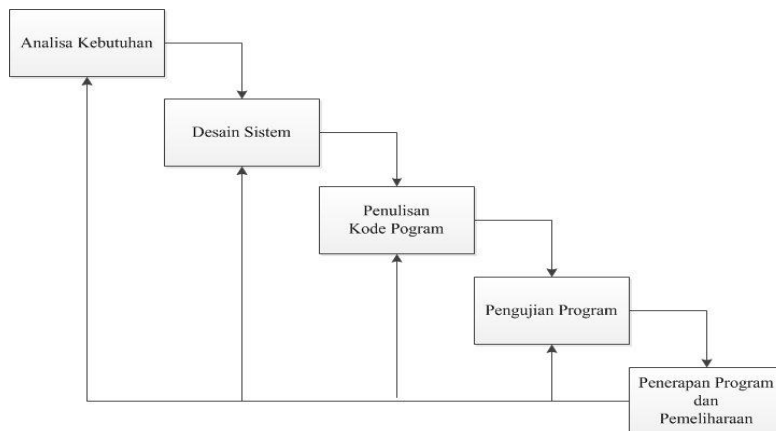


Figure 1. Waterfall Method

In this method, the analysis is to find a solution based on the analysis of the problems that exist in the UPT BKB Balong District. Then the authors do information system design and analysis phases of a prosperous family status with the first step is to do the design of the system. The next step is writing program code so that the system can be used as appropriate. Once the system is completed, the system test whether the system there is a shortage or an error. Once the system is improved, the system is ready to be applied in UPT BKB Balong District.

### 2.2. Problem Analysis

At this time in the Office in the UPT BKB Balong District, Ponorogo still have a wide variety of constraints including:

- a. Process of determining the status of a prosperous family stages of the data obtained from the sheet R/1/KS is still done manually and takes a long time to work BKB Unit officers could not be completed on time.

- b. Place for the storage of the data collection files R / 1 / KS (Sheet Register Family Welfare) inadequate thus causing difficulties in finding a current population data if needed. Possible loss of data will also grow.
- c. Requires a lot of energy and mind to family welfare status determination stages so the possibility of mistakes can happen.

### **2.3. System Requirements Analysis**

Based on the above issues then designed the new needs of a system including:

- a. Computerized system to assist in the process of determining the status of a prosperous family stages of the sheet R / 1 / KS so pengerjakan be effective. In addition the data search process can be done quickly and easily without having to search the data by hand.
- b. No longer requires a lot of places to store files R / 1 / KS. With the computerized system is expected to be more efficient data storage.
- c. Web-based information system that will make it easier because it can be accessed anywhere.

### **2.3. Needs Software and Hardware**

In Information Systems Design and Analysis of Status Stages of Family Welfare requires some software and hardware used in the manufacture and analysis system including the following:

#### **2.3.1 Software**

- a. *PHP* programming language
- b. *My SQL*
- c. The operating system Microsoft Windows 7
- d. Web server: *XAMPP*
- e. Mozilla firefox

#### **2.3.2 Hardware**

- a. laptop
- b. Processor minimum Intel core 2 duo
- c. RAM 1 GB DDR3
- d. 320 GB hard drive Sata
- e. LCD 14 "LED
- f. VGA Intel 45 Express Chipset

### **2.4. Method of collecting data**

At this stage of collecting the data needed for the study. Phase - phase carried out include:

#### **a. Study Library**

In the author uses the data collection methods of literature. Methods A literature study by means of searching for information by reading books, journals and articles written

by experts associated with the study, in order to obtain a search reference studies that have been done before.

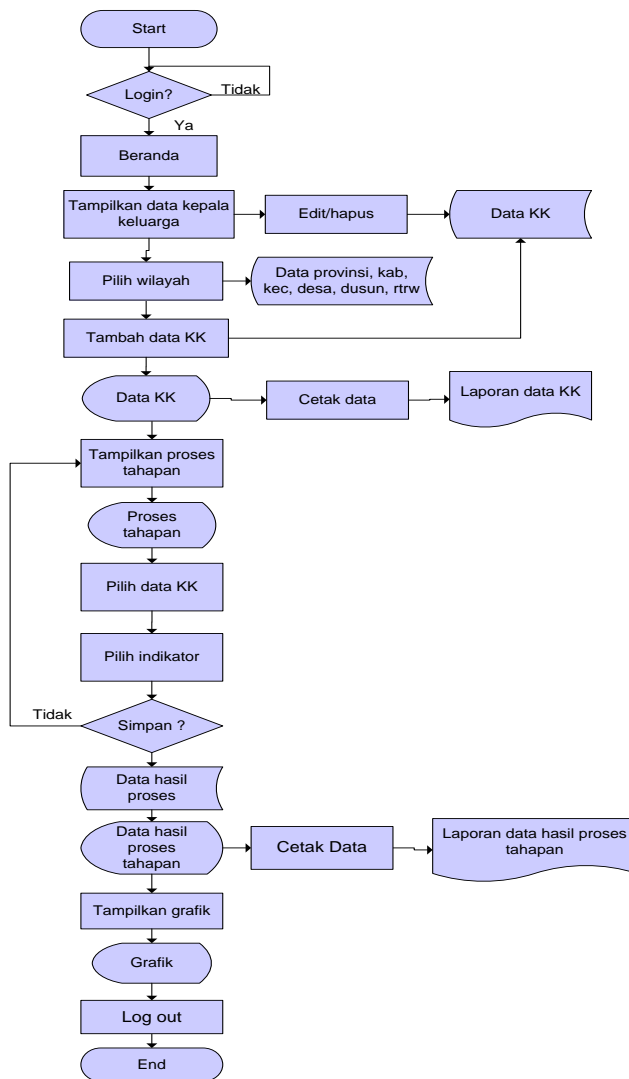
b. Method Interview

The method of data collection by asking some questions directly with the UTP BKB District of Balong which refers to the sections related to the research. In addition, to obtain the data sheet Register Family Welfare (R/1/KS).

## **2.5. System Design**

a. Flowchart

Flowchart is a graphical representation that illustrates the sequence of a process or activity in detail seen in Figure 2. In modeling below describes the process of login to the results of phase status prosperous family. This process can only be done by officers. After the clerk login then the officer will go to the homepage. If the officer will make the process stages, the first step that must be done is to input the data KK by selecting the data area that includes provincial, district, sub-district, village, hamlet, RTRW input and input id\_kk, name and gender. After the officer could make the process stage by selecting the data KK and selecting indicators listed in the system. After that officers will obtain data report stage of the process and can see the report stage of the process and see the comparison in graphical form.



**Figure 2.** Flowchart Process

b. Data Flow Diagram

DFD level 1 is a translation of the context diagram that describes the stages of the process and direction of data flow seen in Figure 3. In this section it is explained that the admin and the clerk must first login process. In the process of data admin KK. KK will acquire data reports where the admin can modify and delete data KK. While officers can view report data in addition KK can also add data KK. On the territory of this process is an integral part of the process of data KK. The process could only be added by the admin. While the officers themselves if they want the data add KK must select a region first. At the stage of the process can only be conducted by workers with a way to select data and choose indicator KK after the officer will receive the report

stage of the process results. So, also with the admin can only obtain data report stage. Process indicators and processes KS can only be accessed by admin.

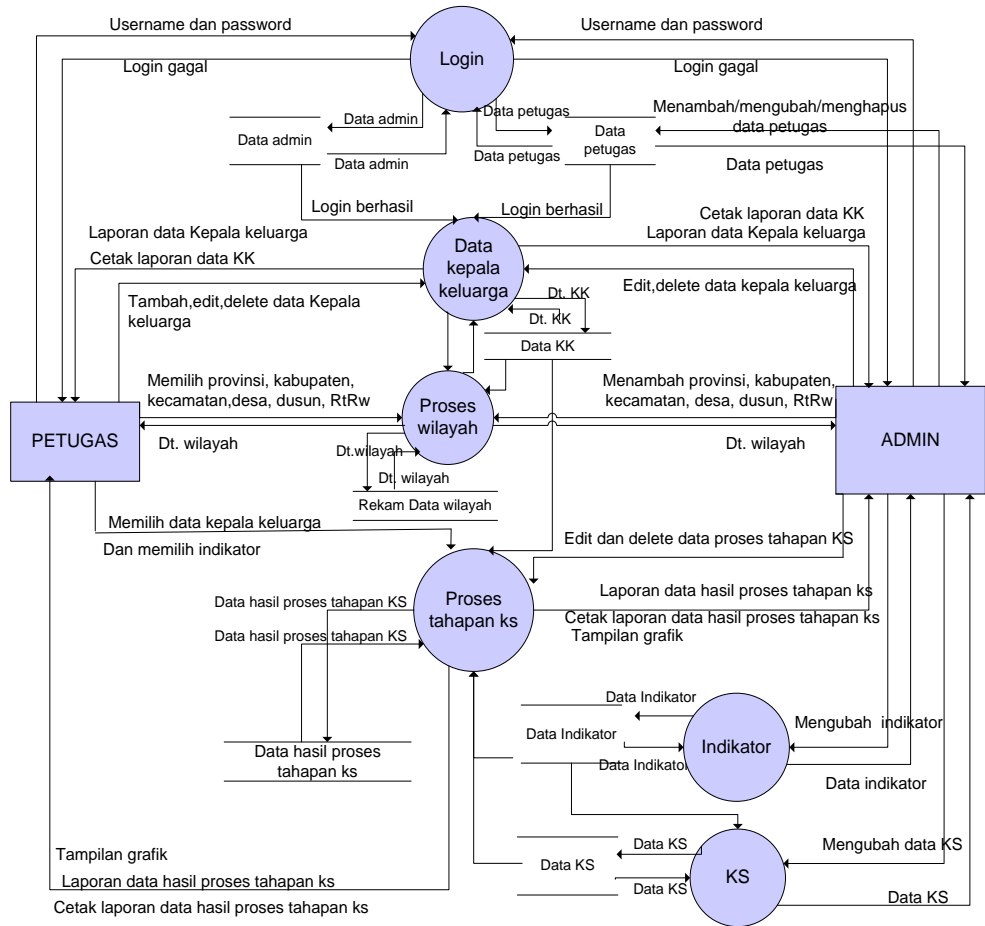


Figure 3. DFD Level 1

## 2.6. Graphic

Acquisition chart obtained from the calculation  $(\text{Pra KS KS} + 1) / (\text{Number of households}) \times 100\%$  gain is already established by the BKKBN. So, based on this formula can be concluded that the highest percentage showed lower levels of a prosperous family in which levels are the stages of a prosperous family is poor. Instead lowest percentage shows the stages of a prosperous family able or rich.

### 3. RESULTS AND DISCUSSION

#### 3.1. Implementation interface

In this chapter will explain the shape and function of multiple page formats that exist in this system.

##### a. Login Page

The login page is the key to get to the next page. In this page there are two navigation buttons that button admin on admin and attendant button that is specific to the clerk. Users must enter a username and password seen in Figure 4.

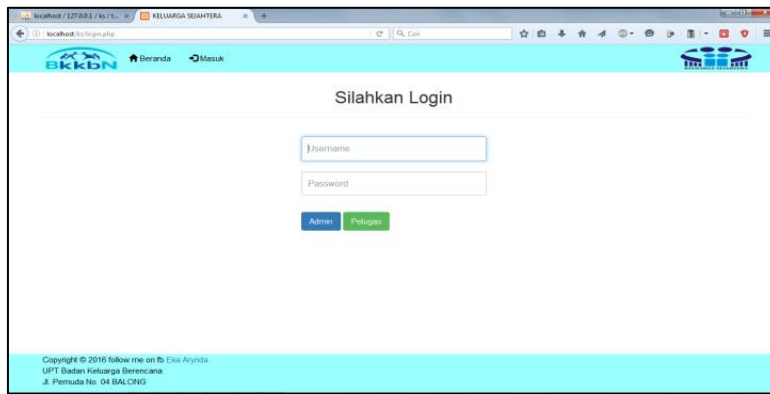


Figure 4. Login Page

##### b. Page Process Stages

This page is a page to perform the process stages prosperous family. Stage of the process is done by selecting the data KK and years later click process in Figure 5.

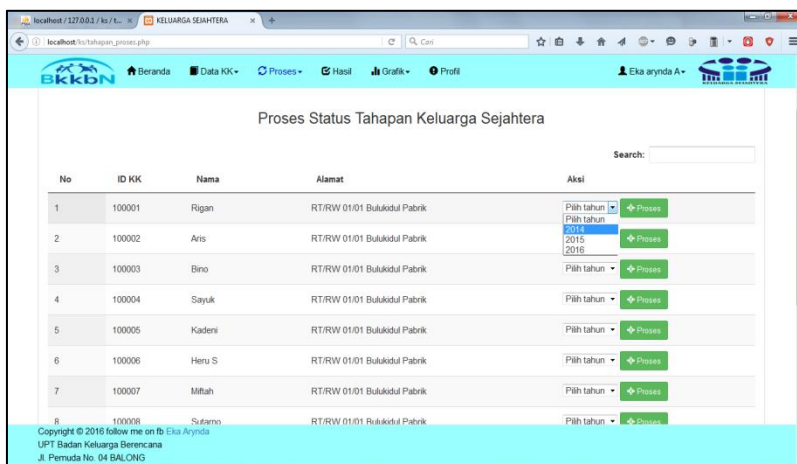


Figure 5. Process Page

After selecting the process it will display the check indicator. Indicators derived from sheet R/1/KS as shown in Figure 6.

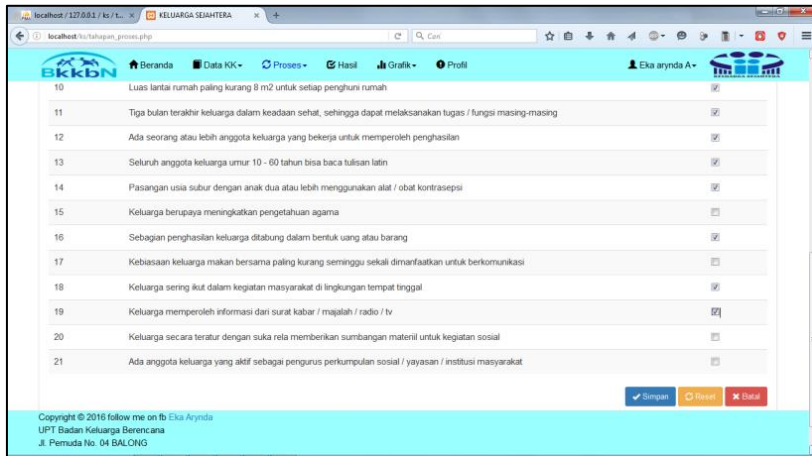


Figure 6. Select Indicators Page

c. Page Report Process Stages

This Figure 7 is a page to print the process data that has been at the input stage. On this page there are also facilities to change and delete data process stages.

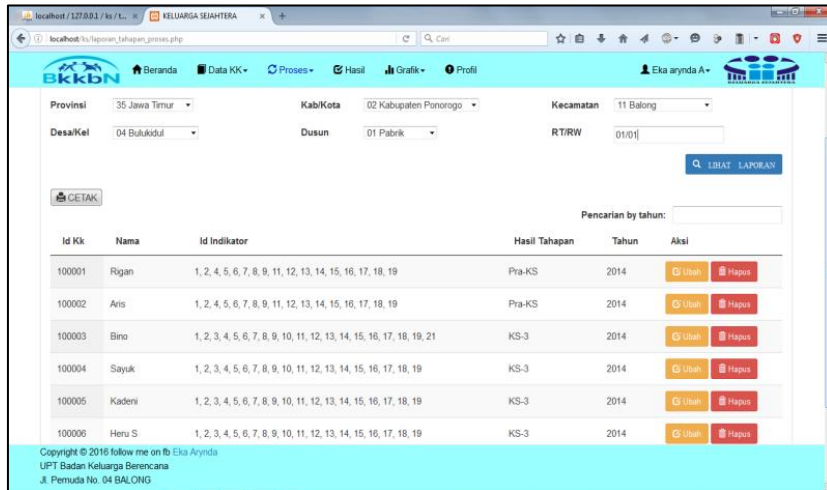


Figure 7. Report Process Stages Page

d. Graphic Page

This page is a result of the comparison chart to see the results of the stages in the village Bulukidul status. Here's what the page:





Figure 8. Stages Status Graph page in the Village Bulukidul

Based on the chart above can be seen that in the village Bulukidul highest percentage of stage status is KS 3 so that it can be concluded that the majority of the population in the village Bulukidul are at levels capable or rich.

#### 4. CONCLUSION

System status information stage prosperous family is designed to ease BKB Unit officers perform data input and analysis phases of a prosperous family status. Web-based information systems and implementation of software using the programming language PHP and MySQL database. System status information and analysis phases of a prosperous family works by some of the selected indicators or on the check list and eventually the system will display the results of the stage status of the family. The system also displays some graphics so that the user can know the status of the level comparison stage prosperous family. Comparison chart to show the status of the highest percentage of poor welfare families stages. Instead lowest percentage shows the stages of a prosperous family able or rich. It concluded that in the district of the village of Balong based chart that had the highest rate and the lowest percentage Bulukidul village is the village of Ngraket. While based in the village Bulukidul Graph Hamlet is Hamlet Ngecrak highest percentage and the lowest percentage was Hamlet Factory. In the village Ngraket highest percentage was Hamlet Jugil and the lowest percentage was Krajan. Then, based on the highest percentage Graph year is 2014 because the author simply clicking the input-data in 2014. And the last by graph KS status between the village and the village Ngraket Bulukidul have similarities highest percentages status KS 3 stages.

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