

Village's E-Government



Ade Irfan Setiawan, Phong Thanh Nguyen, Eswaran Perumal, K. Shankar, Satria Abadi,
Wahidah Hashim, Andino Maseleno

Abstract: A computer technology plays a very important role for development in all fields. The rapid development of information technology greatly affects the agency's performance, because the time could be utilized more effectively and efficiently. Pekon, is a Lampung's word, means village. The existence of an information system in Pekon Way Jaha is very helpful for the community and the government to run data browser. and it is useful to provide an overview of what is presented in Pekon Way Jaha. By the existence of this system, the data can be searched faster so that it can minimize time, costs and errors that may occur. The existence of a computerized system in a field, can facilitate the data recording and processing, reduce errors in recording, and produce reports based on certain categories as needed.

Keywords : Information Technology, Performance, Jaha.

I. INTRODUCTION

A. Background

A village is a lawful community unit that has an authority to regulate and manage the public interest based on the origins and customs that are recognized in the national government system and are located in the district. In this globalization era, the development of science and technology is increasingly rapid, especially in the field of information technology. The need for information in an agency is demanded quickly and precisely in serving a community, encourages an agency to provide such information quickly and minimize errors, including using information technology. Computerized as the facilities, Computer is one of technological development that plays an important role in preparing and processing data to produce accurate, timely and relevant information and provide reports quickly and precisely. Nowadays computers become a very important necessary, almost can be found in every government office, company, school, or even in the household. Computers are no longer only used as a substitute for typewriters or calculators, but are now also widely used in displaying various featured profiles, in

the Pekon Way Jaha, it consists of Kindergartens that implement early education and there are also School-level educational of Elementary School (SD) which have been accredited by the government with aggregate B. In addition, there are also various activities conducted by youth organizations to fill the activities in the pekon. Besides, in this village, some people cultivate catfish seedlings, which become a business that is able to produce products and results that are not less competitive with seed products from outside the region.

B. Research Problem

Based on the background of study that has formulated above, several problems can be formulated, namely:

- The difficulty of finding data and information quickly and accurately on the platform
- Make alternative methods of storage, searching and processing data to support the speed of getting information
- Introducing anything that is presented on the pekon way jaha

C. Research Limitation

Given the limited time, the authors limit the problem in the form of:

- The author only conducts research on against Pekon Way Jaha
- This system is interactive and dynamic contains about storage, search and processing of data in the form of data collection on population, education, youth and home industry.

D. Research Objective

The objectives to be achieved in making web-based E-Government information systems in Pekon Way Jaha are:

- Produce a computerized system to process data quickly and accurately
- Creating an alternative method of storing, searching and processing data in order to increase speed in providing information
- Facilitate the community or higher institutions in obtaining information
- Introducing the advantages of Pekon Way Jaha

E. Research Benefit

The benefits of research are as a first step in designing and determining a system that can be applied to Pekon Way Jaha so that goals can be achieved.

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* Correspondence Author (s)

Ade Irfan Setiawan, Department of Information Systems, STMIK Pringsewu, Lampung, Indonesia.

Phong Thanh Nguyen*, Department of Project Management, Ho Chi Minh City Open University, Vietnam. E-mail: phong.nt@ou.edu.vn

Eswaran Perumal, Department of Computer Applications, Alagappa University, Karaikudi, India.

K. Shankar, Department of Computer Applications, Alagappa University, Karaikudi, India.

Satria Abadi, Department of Information Systems, STMIK Pringsewu, Lampung, Indonesia.

Wahidah Hashim, Institute of Informatics and Computing Energy, Universiti Tenaga Nasional, Malaysia.

Andino Maseleno, Institute of Informatics and Computing Energy, Universiti Tenaga Nasional, Malaysia.

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II. THEORETICAL BASIS

A.E-Government

E-Government as the process of public transformation is internal and external relations through network-based activities, information and communication technologies, in order to: optimize service delivery, increase citizen and business participation, and enhance government capability. The definition explains C2 that e-government is a process of transforming internal and external relations of public administration through network-based, information and communication technology aimed at optimizing inter-service delivery, increasing public and private participation, and increasing government capability.

B. Pekon/Village

The village is a unit of the legal community who has the authority to regulate and manage the interests of the local community based on the origin and local customs that are recognized in the national government system and in the district.

C. System

The system is a collection of interconnected and interacting elements in a single unit to carry out a process of achieving a primary goal. The system can be defined by a procedure approach and with a component approach. The system is the relationship of one unit with other units that are interconnected with each other and which cannot be separated and towards a unity in order to achieve the stated goals. If a unit is jammed or interrupted, other units will be disrupted to achieve the stated goal.

Information is data that is processed into a form that is more organized and more meaningful for those who receive it. The source of information is data. Data is a reality that describes events and real unity.

2.5 Information System

Information systems are defined technically as a set of components that are always related, collect, or obtain, process, store, and distribute information to support decision making and supervision in an organization.

Information systems are a tool for presenting information in such a way that it is useful for recipients. The aim is to present information for decision making in planning, initiating, organizing, controlling the operations of a company that presents organizational synergy in the process.

2.6 DFD (Data Flow Diagram)

Data Flow Diagrams (DFD) are diagrams that use notations (symbols) to describe data flows. Data flow diagrams are often used to describe an existing system or a new system that will be developed logically without considering the physical environment in which the data flows. Jogianto HM, (Analysis and Design of information systems structured approach, 1989; 700) in the journal Azwar Syarif (2009).

According to Jogiyanto. HM (2005: 701) DFD is a description of an existing system or a new system that will be developed logically without considering the physical environment in which the data flows, and will be stored.

2.7 ER Diagram

ERD is a model to explain the relationship between data in a database based on basic data objects that have relationships between relations. ERD is used to model structures and

describe data and relationships between data using several notations and symbols.

2.8. PHP

The one of the programming languages which used in this application is PHP. PHP or Hypertext Preprocessor is a server-side embedded script language meaning the syntax and orders that we provide will be fully run by the server but included on ordinary HTML pages (PHP 2009 material) in the journal Emi Ratna Setiani, Jajang Kusnendar, Eka Widhi Yunarso, 2010)

According to Abdul Kadir (2008: 2) PHP, which stands for Hypertext Preprocessor, is a programming language in which the files and all the processes are done on the server, then the results are sent to the client, where the user uses a browser (Well known as server-side scripting).

2.9 XAMPP

XAMPP is an apache web server software in which the MySQL server database is available and supports PHP programming. XAMPP is a software that is easy to use, free and supports installation on Linux and Windows. Another advantage is just installing one time already available Apache Web Server, MySQL Database Server, PHP Support (PHP 4 and PHP 5) and several other modules

III. LITERATURE REVIEW

3.1 SDLC

SDLC (Systems Development Life Cycle) or Systems Life Cycle, in system engineering and software engineering, is the process of making and changing systems and the models and methodologies used to develop these systems. This concept generally refers to computer systems or information. SDLC is also a pattern taken to develop a software system, which consists of stages: planning, analysis, design, implementation, trial and management.

3.2 PLANNING

Designing system is very necessary because software is part of a larger system. this stage will be applied for Pekon Way Jaha system

3.3 ANALYSIS

Analysis is a system requirements collection to build a website for Pekon Way Jaha, such as analyzing website appearance, functions needed, and desired performance capabilities.

3.4 DESIGN

At this stage, the activities are carried out in stages, which focus on four important parts, such as, the data structure, system structure. The detailed procedures and user interface characteristics, good and comfortable design will make the user happy to visit and looking for information comfortably.

3.5 CODE

At this stage the program codes that are recognized by computers are written in order to build a system that will later be used for Pekon Way Jaha purposes.

3.6 IMPLEMENTATION

after the code is written, the next is to test the system using data as in the original environment but do not use the actual data, just to test the feasibility of the system.

3.7 CARE

This process run out after the system is used by the user. Some changes or improvements will be made if there is an error, therefore the system must be adjusted again to accommodate changes in needs.

3.8 Pekon Way Jaha Profile

There are 26 districts division / villages / Pekon in Pugung sub-district, one of which is Peko Way Jaha. From each district division/village/ Pekon, they have different village offices.

3.9 Location

Pekon Way Jaha is one of 26 subdistrict division/ Village / Pekon located in Pugung sub-district Tanggamus Regency which is adjacent to:

- a. East : Tiuh Memon (Pugung sub-district)
- b. North : Rantau Tijang (Pugung sub-district)
- c. South : Tiuh Memon (Pugung sub-district)
- d. West : Sinar Agung (Pugung sub-district)..

IV. IMPLEMENTATION

Interface page

It is the main page of website design and provides information that can be accessed by the user / user:



Figure 1: Interface Figure

Login Page

It is a page display of administrator users who have the access to processing data by entering User and Password based on the provisions of administrator users.

...:: Login Administrator ::...



Figure 2: Login Figure

Profile Page

It is a page that gives a glimpse of the overview of Pekon Way Jaha that can be accessed by the user / user:



Figure 3: Profile Page

Population Page

It is a page that provides information about Pekon Way Jaha residence that can be accessed by the user / user:



Figure 4: Population page figure

Potential Page

It is a page that provides information about potential found in Pekon Way Jaha, which can be accessed by the user / user:



Figure 5: Potential Page

V. CONCLUSION

From the results of research, design, implementation, as well as testing that has been conducted there are some conclusions can be stated namely:

- By making information systems this web-based way jaha, will make it easier for users or users especially the people of Way Jaha Village in the search process an information needed.
- Provides more information fast, precise and accurate so support in taking.
- Can improve and provide better service than before the community.

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