MOBILE WEB IMPLEMENTATION AS MEDIA INFORMATION SYSTEM IN MARGODADI VILLAGE

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Abstract

At this time the mobile web information system has been widely used for various kinds of activities, one of which is for information on the village. Information systems using the mobile web can make it easier for the village to provide information to the community. In providing information related to the village, Margodadi Village still uses a manual system or by asking the community directly to the village office to obtain information. Therefore, Margodadi Village must change the manual system to a mobile web information system so that it is more efficient and effective in providing information to the community related to village-related information. In this problem, the researcher tries to model an information system for media information provided to the community related to mobile web-based village information. Researchers in modelling the new system use the SLDC method. With the existence of a new information system in providing information to the mobile web-based community, it is hoped that it can help make it easier for the Margodadi Village to provide information to the community so that the community can easily get information related to Margodadi Village information.

INTRODUCTION

Information media is an information system that is very widely used today in line with the development of information and communication technology[1]. Likewise, the village of Margodadi needs to implement an information system as an information medium with a strategy adapted to social conditions, the ultimate goal of which is to improve the quality of village apparatus performance, especially in the scope of community service so that it can be useful for all members of the community to find out the information available. Recognizing the enormous benefits of information media, the Indonesian government 2003 has issued a policy regarding the application of information media or e-government information systems in the form of presidential instruction number 3 of 2003[2].

Recognizing the magnitude of the benefits of currently developing information system technology, a new system is needed that must be implemented in Margodadi Village as a solution to overcome obstacles that occur in accessing information in Margodadi Village which still uses a manual system. With the existence of this information media, it is hoped that it will have a fairly good and beneficial impact on all interested parties. From the user side, for example, a user or the people of Margodadi Village can obtain information at any time, without having to be limited to the...
working hours of village office employees or walking to the village office several kilometres away just to get information[3].

Previous research on village information systems was conducted by Ade Irfan Setiawan with the title E-Government at the village of Wayjaha, providing conclusions a. By making this web-based Pekon Way Jaha information system, it will make it easier for users or users, especially the village of Way Jaha community, to carry out the process of searching for the information needed. b. Providing information that is faster, precise and accurate so that it supports decision-making. c. Can improve and provide better service than before to the community[4].

Other similar studies were researched by Wahyu Bagus Wijanarko, and Dedi Irawan with the title E-Government in the village of Pagelaran, which concluded 1. E-Government in village of Pagelaran was designed using the PHP and MySQL programming languages. 2. With the existence of E-Government at village of Pagelaran it makes it easier to present population information, and village potential[5].

In this case, the researcher tried to assist the Margodadi village office in solving the problem by building an information system as an information medium to provide information related to mobile web-based Margodadi Village information, with the establishment of a mobile web-based information media system in Margodadi Village that can help the village of Margodadi in providing information related to information on the village of Margodadi efficiently and effectively[6].

**Problem Formulation**

Based on the explanation and background description above, the following problem formulation is obtained:

1. How to implement a mobile web in Margodadi Village
2. Can the mobile web application make it easier for the people of Margodadi Village in administrative matters?

**Research Objectives and Benefits Research**

a. objectives

In this study, the objective was to find out how to implement the mobile web as an information medium for Margodadi Village.

b. The benefits of the research

The benefits of the research that the researchers conducted was to assist the Margodadi Village in providing information to the people of Margodadi Village by using information media effectively and efficiently.

**Literature Review**

**Information**

The Information System above is a set of procedures that are organized by knowing systematically and are used to provide daily transaction data processing needs that can make it easier for the public to obtain information[7].

An information System is a system within an organization that meets the needs of daily transaction management, supports managerial operations, and strategic activities of an organization and provides certain external parties with the necessary reports[8].

**Web Mobile**

Web mobile or mobile web application is run using the existing browser on the device and is usually written using HTML5. The programming languages used are HTML5, CSS3, JavaScript and server languages such as PHP[9].

Web Mobile is an internet access application using browser-based mobile devices that aims to access data services wirelessly using mobile devices such as cell phones, PDAs and portable devices connected to a cellular telecommunications network[10].

**Villages**

Villages are legal community units that have territorial boundaries that are authorized to regulate and manage government affairs, local community interests based on community initiatives, origin rights, and/or traditional rights that are recognized and respected in the Unitary government system of the Republic of Indonesia[11].

A village according to PPNo 72/2005 is a legal community unit that has territorial boundaries that are authorized to regulate and manage the interests of the local community, based on local origins and customs that are recognized and respected within the system of Government of the Unitary State of the Republic of Indonesia (NKRI)[12].
METHODS

Data Collection
In this case, the researcher collects information to answer all these questions, in this study several information collection procedures are used, including the following:
1. Observation is a method of gathering information, where at this stage the researcher obtains information directly in the object of research to closely monitor the information system in Margodadi Village.
2. Library
   Studies Library Studies is a method used to collect information where researchers collect information from various sources, namely from books, theses, diaries and other books related to research.
3. Interviews
   Interviews were conducted by asking direct informants from Margodadi Village and the Margodadi Village community about the Margodadi village information system.

Model Design
System development can mean compiling a new system to replace the old system as a whole or improve existing systems. The main stages of system development consist of a structured development method with a system development life cycle approach (System Development Life Cycle or SDLC). Consists of several stages, including:

2. Analysis In this stage an analysis of the existing system is carried out with one method, namely interviews with related parties and observing the condition of the village area which will be used as the object of research. What is done in this stage is: to determine the object, study the organization, analyze input and output requirements and evaluate the use of the system.
3. Design (System Design) In the system design stage adapted to the needs and problems encountered in the research object. At this stage what is done is database design, user interface design, hardware requirements, software and network requirements
4. System Implementation In the implementation stage several tasks must be carried out including implementing the design in components, then perfecting the architecture and then implementing by making programs and testing programs.
5. System and system maintenance At this stage user training is carried out and evaluation of the running system, if there are deficiencies or errors, repairs and maintenance are made

Framework of Thought

![Figure 1. Stages of Waterfall](image)

![Figure 2. Framework of Thought](image)

The description of the framework of the research above is as follows:

1) Initial Research Stage This stage is the first stage early in the making of this research. Which consists of determining research topics, identifying problems, and looking for references.
2) Data Collection Stage This stage uses observation, interviews, and questionnaires.

3) Data Analysis Stage After the above data collection is complete, then the data is analyzed. This aims to group the data so that it will make it easier for the writer to carry out the next analysis.

4) System Development Stage This stage discusses the design and development of the system model by determining the input design in building a web mobile-based Margodadi village information system using the SDLC method.

5) System Implementation Stage The next stage that will be carried out in the research is to implement the system that has been designed.

Testing Stage At this stage, testing will be carried out on the system that has been built using a testing system using Alpha and Beta testing, so that errors from the system can be minimized or even eliminated. System testing is done to get accurate results.

**RESULT AND DISCUSSION**

The context diagram is the highest level in the information flow chart and only forms one process, which is directed to the system as a whole. The following is a reflection of the totality found on the mobile web as an information medium for Margodadi Village.

Flowchart

System Implementation

Modelling the mobile web as an information medium for Margodadi Village is as follows:

Login Page Login System Display, this page is the interface design when you first enter in the mobile web system as an information medium for Margodadi Village. On this page, there is a display that contains the login menu. The following is a model display for the login system page.

Page Home Page This home page is the interface page for the first time entering the depth of the mobile web information system as an information medium for Margodadi Village. On this home page, there is a header that contains menus that are used by users to carry out activities that assist users in providing information. The following is the interface for the Home page:
CONCLUSION

From discussion the has been carried out by researchers, the following conclusions are obtained:

1. With an online information system website, it is hoped that information about Margodadi Village in providing information related to village information can make it easier to find information that can be accessed quickly without having to go directly to the Margodadi Village office.

2. By using the mobile web as an information medium for Margodadi Village helps Margodadi Village in providing information to the people of Margodadi Village by using information media effectively and efficiently and can obtain relations and partners who want to know information about Margodadi Village.

REFERENCES


