Village Service Information System

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Abstract: The purpose of this research is to design and build a Village Service Information System in order to improve the quality of services for village officials and the use of services for village residents. At the application development stage using the Scrum software development method and the application used is Microsoft visual foxpro 9. The results of the research that can be concluded are; 1) The ability and skills of village officials in communicating are still low so that in providing services to the community it does not provide satisfaction for the community, 2) Based on the database and form creation process using Microsoft Visual Foxpro 9.0, 3) Based on the database creation, the name of the database is db_pelayan, and the name the tables are tbl_kk, tbl_ktp, tbl_surat, 4) Based on the form using 7 forms, namely: Population Data Input Form, Family Input Form, Letter Administration Data Input Form, Search Form, Report Form, Login Form.

Keywords: Village Service; Information System; Scrum Method; Microsoft Visual Foxpro 9.

1. Introduction

The village is the most important component of the government system that can support the availability of completeness, accuracy and all matters relating to the entire population data fundamental system [1,2,3]. The Village Service Information System is a population database system designed with a one-gate service system so as to facilitate the service system in the village quickly and accurately [4,5]. The village service information system contains a set of interconnected sub-systems, forming a single unit that interacts and cooperates with one another to perform data processing functions, receives input in the form of data, then processes it (processing) and issues output in the form of information to support operational activities. and managerial in data systems in villages [6,7]. One of the characteristics of village success and progress is the orderly process of administration and community services [8], and village information system software plays an important role [9,10]. For example, the process of population data collection, data inventory or even the need for correspondence becomes easier to do by utilizing the technology of this information system. But unfortunately the convenience and comfort offered by this technology has not been fully enjoyed by every village equally. In general, because of geographical factors, remote villages far from urban areas tend to be untouched by this technology and are more traditional. Even "urban villages" are still scarce in information systems. Data processing still utilizes Microsoft Word and Microsoft Excel which are standard in data storage. Therefore, the authors are very interested in creating a data processing and storage, easy to run in data entry, data retrieval, data processing, and data printing using Microsoft Visual Foxpro 9.0.

The purpose of this research is to design and build a Village Service Information System in order to improve the quality of services for village officials and the use of services for village residents. As library literacy, the researcher adds various definitions related to this research. A village website or village web is a site that contains a collection of information in the form of writing, images, sound, or video that can be accessed via a network such as the Internet, or a local area network (LAN) through an Internet address known as a URL [11,12]. The benefits of web system development carried out by the government that can be felt include; 1) Better service to the community, 2) Improved relations between the government, business people, and the general public, 3) Community empowerment through easily obtained information, and 4) More efficient government implementation [13,14,15,16]. Programming Microsoft Visual FoxPro 9.0 is a programming language that works within the scope of Microsoft Windows. Microsoft Visual FoxPro 9.0 can take full advantage of the capabilities of Microsoft Windows [17,18]. Its ability can be used to design application programs that look like other application programs based on Microsoft Windows [19]. This programming language is not popular at this time, but its sophistication in providing various ready-to-use facilities, Microsoft Visual FoxPro is able to support the creation of applications, both single user and multituser. One of the most effective learning methods for programming is the learning method while trying to implement it. To provide an example of developing a simple application that can represent a system, using Microsoft Visual FoxPro 9.0. With this simple application example, it is hoped that it can develop into a
more complex system [20,21]. Microsoft Visual FoxPro 9.0 is a programming language or application development that is well known in the world. By using Microsoft Visual FoxPro 9.0, you can create databases for information systems and create application forms along with reports. Furthermore, the standard for developing information systems will discuss, such as login passwords, and also the facility to change passwords. In terms of programming, Microsoft Visual FoxPro 9.0 uses a language that is very simple and easy to understand. This program is actually the next generation of the previous programming language, namely Microsoft Visual FoxPro 5, 6, 7, 8 [22,23].

2. Background and Analysis

Village service information is one of the main factors in village government because with this village service information it can facilitate and speed up service to the community. In addition, this information system also provides data needed for certain purposes, such as family card data and identity card data. In addition, to avoid the occurrence of counterfeiting and duplication of identity cards that have often occurred. With this village service information system, it is hoped that the government in the village can make good and targeted work programs adapted to the existing information. Given the importance of village service information, it is hoped that villages will have complete village service information. Development planning in rural areas cannot be separated from the administration of the village government which is the leading unit in providing services to the community and is a strategic milestone in village development. The community service procedure is closely related to the function of the Village Government in developing its government organization, both for its administrative activities and in the field of development or implementation of supervision and guidance for the Village community.

The information system for making village services uses Microsoft Visual Foxpro 9.0. The database name is db_service, and the table names are tbl_kk, tbl_ktp, tbl_surat. At the application development stage using the Scrum software development method, the Scrum Method basically borrows the philosophy of the Agile method in terms of developers and users having to work together continuously every day [24,25]. The way it works is by breaking the final goal into several small goals at the beginning of the project and working on the small goals first [26,27]. The method used to work on small goals is to do regular repetition of work in making software [28]. Then as often as possible display the results; this process usually takes approximately two weeks [29,30].

3. Result and Discussion

The results of the study are in the form of a village service information system application consisting of a login form, main menu, citizen data, family data, letter administration, family data search, and reports.

Fig 1. Stages of the Scrum Software Development Method
5. Conclusion

The results of the research that can be concluded are;
1) The ability and skills of village officials in communicating are still low so that in providing services to the community it does not provide satisfaction for the community
2) Based on the database and form creation process using Microsoft Visual Foxpro 9.0.
3) Based on the database creation, the database name is db_pelayan, and the table names are tbl_kk, tbl_ktp, tbl_surat.
4) Based on the making of the form using 7 forms, namely: Population Data Input Form, Family Input Form, Letter Administration Data Input Form, Search Form, Report Form, Login Form.
References


