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# Web-Based Village Potential Information Management in Agung Timur Village

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**Abstract**

This study aims to analyze the implementation of Web Government-based Village Potential Information Governance in Agung Timur Village. The findings indicate that the system has improved transparency, administrative efficiency, and information accessibility for the local community. The use of information technology has accelerated accurate and structured data collection of village potentials while encouraging active community participation in development. However, challenges remain in terms of limited internet infrastructure and the digital literacy of village officials. Referring to previous studies, this implementation is considered successful, although continuous improvement in human resources and infrastructure support is necessary to ensure optimal and sustainable system performance.



## I. INTRODUCTION

along with the more the development of science and technology provides convenience in look for information one of them with e-government that can used For serve the community within the scope of its government . The more development technology from computer until Now can via mobile phone in website form so that more make it easier user in look for information. Previous research conducted results From the results of the study, the use of e-Gov in the Citalem Village government has not been implemented optimally due to the problem of human resources that have not been able to keep up with the rapid progress of informatics technology, so there are still many things that need to be fixed in efforts to provide services through e-Gov, including knowledge of information technology (Diana, Sunarya, & Harta, 2024) this study uses the *Waterfall method,* with the results of the formation of a village profile consisting of village boundaries, village facilities and infrastructure, and land use and other data, information can be obtained regarding village potential that may be developed and maintained (Hidayatullah, Lalu Kharismananda Hakiki, Muhammad Syahrul Taufiq Ibrahim, Muhammad Aidin Habib Khair, & Munajat Nursaputra, 2023).

In addition, Chalidazia Nizar in 2021 also conducted a study entitled "Design and Construction of a Website-Based Boarding House Rental Information System (E-Kost)" using the *Waterfall method* and produced an effective means of providing boarding house information for those looking for a place to live, as well as for boarding house managers can be used to promote the boarding house that will be rented and manage everything related to the boarding house quickly and easily. (Indrajit, 2005) E-Government is an abbreviation of "electronic government" or "government through electronic means". It refers to the use of information and communication technology (ICT), especially the internet, to provide government services to the public, businesses, and other entities. eGovernment aims to improve the efficiency, transparency, accessibility, and responsiveness of government. (Diana et al., 2024)

Because in Agungtimur village not many people know about the potential in this village, in order to display and introduce the potential of the harvest, from rice plants producing 535 tons in one season with a land area of 91 Ha, and cassava and corn in the people's plantation area which has an area of 216 Ha itself produces 1050 tons of cassava and 1200 tons of corn in one season, and in the livestock sector has an area of 65 Ha with various types of livestock, ranging from chickens, cows, goats. So, as a solution to the above problems, the researcher intends to design the Design of Village Potential Information Governance Based on E-Government in Agung Timur Village. With E-Government, residents can access various government services online, such as tax payments, vehicle registration, permit applications, and various other public services without having to visit government offices physically. This not only saves time and money for residents, but also increases government openness and accountability.

## II. RESEARCH METHODS

### 2.1. E-Goverment

(Saputra, Weriza, & Mallisza, 2018) Electronic-government as the government's use of technology, in particular, web-based Internet applications to enhance access and delivery of government services to citizens, business partners, employees and other government entities (Ridhawati, Susianto, Buchori, Taufik, & Mistina, 2022) . (Siregar & Sundari, 2016; Widianto, 2014) E-Government offers service public Can accessed 24 hours a day, anytime, and from anywhere wherever user are. E-Government also allows service public No done face -to-face so that service become more efficient. Realizing will the magnitude benefits of e-Government, the Indonesian government since 2003 has been emit policy about implementation of e-Government in Form of Presidential Instruction Number 3 of 2003". (Hartono, Utomo, & Mulyanto, 2010)

E-Government allows easier and faster access to information related to village potential. This helps in expanding the scope of information available to villagers and interested parties. With the adoption of e-government, transparency in information governance increases. Data and information on village potential, government programs, and the use of public funds can be more easily accessed by the public, allowing for better oversight. Through the e-government platform, the community can be more active in participating in the decision-making process related to the development of village potential. This has a positive impact on the sustainability and success of village development programs. Time and Cost Efficiency

(Sari & Winarno, 2012; Surdin, 2016; Widowati, 2016) With easier access to information about village potential, whether in agriculture, tourism, or other sectors, communities and village governments can plan better and more sustainable economic development. E- Government provides better and more efficient public services, such as online tax payments, document management, and health services. This increases community satisfaction with the village government. With the e-government platform, the information gap between village communities and the government can be reduced. This helps ensure that village development policies and programs can be designed more inclusively and have a positive impact on all parties.

### 2.2. Development Methods System

According to Albi, Johan (2020), Research This use Waterfall method . This is a development process device soft sequential, which takes stages consecutive from on to under (waterfall) in form requirements (analysis) needs), design (drafting and modeling), and implementation (application), continue flow, Verification (testing) and maintenance.

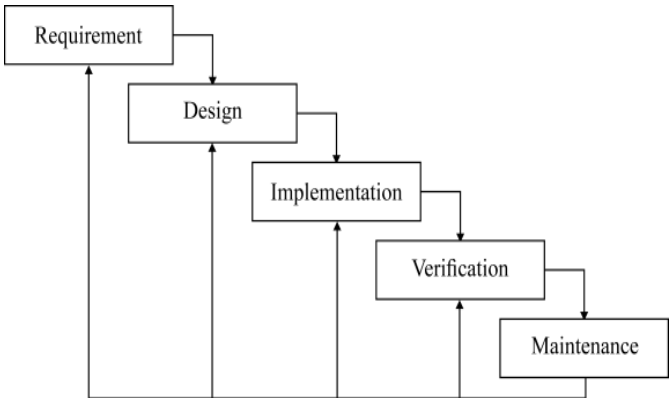


Figure 1. *Waterfall Method*

### 2.3. Method of collecting data

Every study have an important data collection process. The author using this process For get the necessary data For study they . Researchers can choose method study best based on the type of data required, the available data sources that make it possible excavation information in the field, conditions, time, costs, and other important factors for success research. study .

a. Observation
   Using the observation method, researchers went directly to the location study namely in the hall Agung Timur village and observe and interact directly so that researchers better understand the problems that will be used as research material.
b. Interview
   Use technique This researcher apply ask answer to the people who are in some location study like employee hall village, chief Pekon, visitors, and others, for interviewed about management carried out during This so that researcher can find road shortcut for study This.
c. Literature
   Searching for reference sources obtained indirectly, or according to available data, such as in books, insights, and the internet that are related to the object being worked on.

## III. RESULT

### 4.1 Design

In this design process, researchers will create a system to improve village services and potential. It will be drawn in the form of a diagram as follows:

**a. Use Case Diagram**

According to M. Subekti, in the journal AF Satrian et al., 2022, one of the from various UML (Unified Modeling Language) diagram form that can used for explain How system interact with actor is a use case diagram. Use cases can used For to characterize characteristic interaction between user system and system . (Prasetya, Sintia, & Putri, 2022)

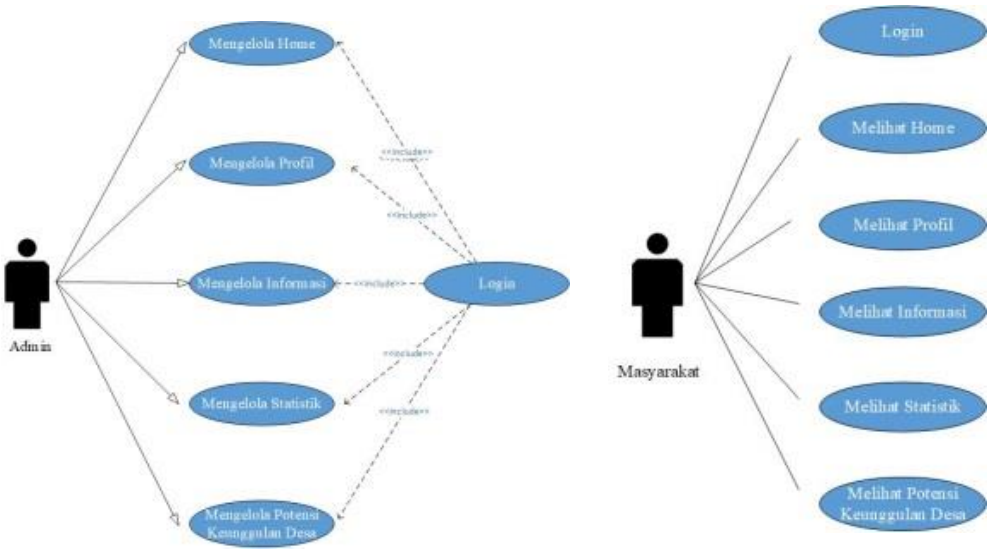


**Figure 2.** Use Case Diagram

This Use Case Diagram is to describe the clarification of the running of the Website framework that has been created. Starting with the admin who manages and provides some information what is needed. After that the officer shows the information page and explains to the public, then continues by searching for the information data that they want to see.

## 4.2 Implementation

Implementation is the actual result of a research and the following is a picture of the finished website:

### a. Home View

This display shows village information, village profiles, and also village potential.

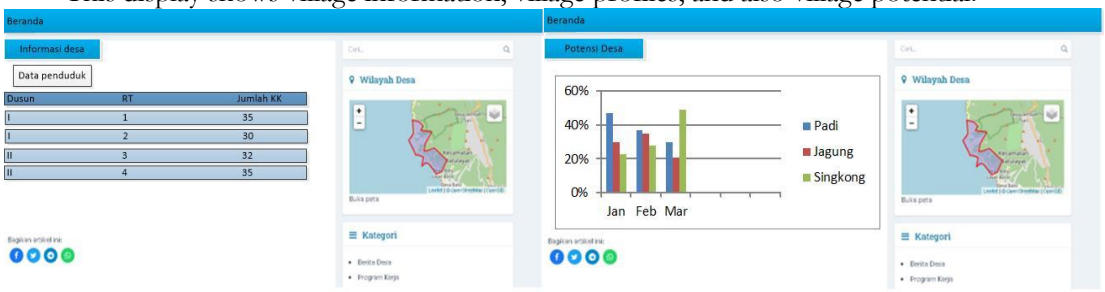


Figure 3. Home View

### b. Profile View and Vision Mission

Showing the profile and vision and mission of Agung Timur village

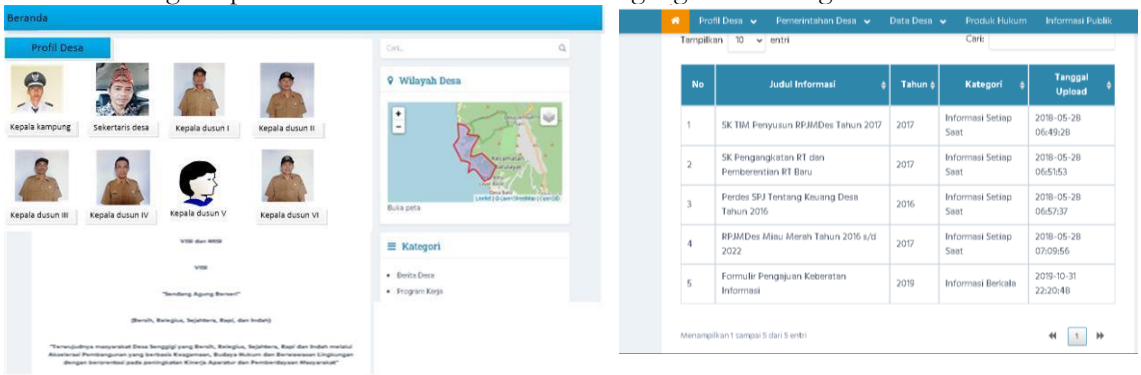


Figure 4. Profile and Vision and Mission Display

This display shows information regarding the disbursement stage as well as the village budget plan and finances coming in from the center from year to year.

**c. Potential View**

In this display, regarding HR information, harvest lists and geographical locations in the village of Agung Timur, for example, below is a display of the potential page which displays a list of harvests starting from rice, corn and cassava.


Figure 5. Potential page

### 4.3 Analysis of Research Results

Implementation of Information Governance The potential of Web- based Village Government in Agung Timur Village shows that utilization technology information capable increase transparency and accessibility of potential data village. villagers now more easy get information about source Power nature, activities economy, to the development program that is currently underway walking. This is in line with study Pratama and Setiawan (2020) stated that that implementation of e-Government at the level village can speed up distribution information as well as strengthen participation public in planning development.

From the side efficiency administration, implementation system This bring change significant. Data collection process potential the previous village done manually now become more fast, accurate, and structured. Integrated data in system web-based also makes it easier device village in compile report or regional development proposals. These results support findings from Nurhadi and Ramdhani (2019) revealed that that system information village digital based capable increase performance apparatus village, especially in matter data management and services public. The research results also found challenge in implementation this, especially related with digital device skills village and limitations infrastructure internet network. Some of the staff village Still need training advanced for optimize use system, while stability network become obstacles at times certain. Conditions This consistent with Susanto's research (2018) states that that constraint main in Implementation of Web Government in villages is low digital literacy and not yet evenly distributed infrastructure technology.

Questionnaire data can be categorized if added up per question, if the sum of those who answered SS and S is more than 100, then this *website* is suitable for use by users, if the sum of those who answered TS and STS is less than 60, then this *website* is not suitable for use by users. From the 10 questions asked above, it can be concluded that respondents who answered SS (Strongly Agree) there were 60 answers, S (Agree) there were 82 answers, so if added up there were 142 answers, TS (Disagree) there were 31 answers, STS (Strongly Disagree) there were 27 answers, so if added up there were 58 answers. Those who answered response positive from Respondent For continue development from the Agung Timur Village Information System Based on Mobile Web. In Overall, implementation of Information Governance The potential of Web- based Village Government in Agung Timur Village can it is said succeed increase quality service information and support development data-based. Although Thus, it is necessary effort sustainable like improvement human resources capacity and improvement infrastructure for ensure sustainability and optimization system. Support from government area in form training, mentoring technical, as well as provision infrastructure also becomes factor key, as emphasized by the results Wibowo's research (2021) regarding success implementation technology information at the level village.

## IV. CONSLUTION

Based on research that has been done in making system information village based East Agung Village Mobile Web For increase services and potential village so can taken conclusion, System information based on East Agung Village Website For increase services and potential of the village results study This can give convenience access information special to public specifically Agung Timur Village community. System information based on East Agung Village Mobile Web for increase services and potential village this can also overcome processing Village information to become more Good Because saved in an integrated database and can increase service and show potential the potential that exists in Agung Timur Village**.**

From the results of the research that has been conducted on the Analysis and Design of Mobile-Based Village Information Systems as a Service and Information Media in Agung Timur Village, the researcher provides suggestions for related parties, namely, the Analysis and Design of Mobile-Based Village Information Systems as a Service and Information Media in Agung Timur Village is expected to be implemented so that all people can enjoy the convenience that has been provided, and for further researchers, it is necessary to carry out further and broader development both in adding features and others in the Analysis and Design of Mobile-Based Village Information Systems as a means of need that can be utilized by various groups.

## REFERENCE


Diana, B. A., Sunarya, A., & Harta, R. (2024). Kajian Pelaksanaan E-Government pada Pemerintahan Desa Citalem Kecamatan Cipongkor Kabupaten Bandung Barat, *7*, 181–194.

Hartono, Utomo, D., & Mulyanto, E. (2010). Electronic Government Pemberdayaan Pemerintahan Dan Potensi Desa Berbasis Web. *Jurnal Teknologi Informasi*, *6*(April), 9–21.

Hidayatullah, A. Z., Lalu Kharismananda Hakiki, Muhammad Syahrul Taufiq Ibrahim, Muhammad Aidin Habib Khair, & Munajat Nursaputra. (2023). Pemetaaan Partisipatif Potensi Desa Berbasis Sistem Informasi Spasial Di Desa Watu Toa Kabupaten Soppeng. *J-ABDI: Jurnal Pengabdian Kepada Masyarakat*, *2*(8), 5779–5786. https://doi.org/10.53625/jabdi.v2i8.4502

Indrajit, R. E. (2005). *E Government In Action*. Yogyakarta: Andi Offset.

Prasetya, A. F., Sintia, S., & Putri, U. L. D. (2022). Perancangan Aplikasi Rental Mobil Menggunakan Diagram UML (Unified Modelling Language). *Jurnal Ilmiah Komputer …*, *1*(1), 14–18.

Ridhawati, E., Susianto, D., Buchori, B., Taufik, T., & Mistina, M. (2022). Pengembangan Media Tata Kelola Dan Informasi Potensi Desa Berbasis E-Government Pada Desa Tiyuh Karta Sari. *NEAR: Jurnal Pengabdian Kepada Masyarakat*, *2*(1), 29–34. https://doi.org/10.32877/nr.v2i1.569

Saputra, A., Weriza, J., & Mallisza, D. (2018). E-Administration of Population in West Bungus Village. *Unes Journal of Information System*, *3*(1), 036. https://doi.org/10.31933/ujis.3.1.036-047.2018

Sari, K. D. A., & Winarno, W. A. (2012). Implementasi E-Government System Dalam Upaya Peningkatan Clean and Good Governance di Indonesia. *Jeam*, *XI*(1), 42–54.

Siregar, S. R. S., & Sundari, P. (2016). Rancangan Sistem Informasi Pengelolaan Data Kependudukan Desa (Studi Kasus di Kantor Desa Sangiang Kecamatan Sepatan Timur). *Sisfotek Global*, *6*(1), 76–82.

Surdin, J. (2016). Analisis Kelayakan Implementasi E-Government Dalam Pelayanan Publik Di Bidang Keagrariaan Di Kabupaten Pinrang. *Jurnal Komunikasi KAREBA*, *5*(1), 178–191.

Widianto. (2014). Sistem Informasi Potensi Desa (Study Kasus Desa Wayngison - Pagelaran). *Proseding KMSI*, *2*(1), 36–43.

Widowati, D. P. D. (2016). Inilah Peringkat E-Government Indonesia Berdasarkan Survei PBB 2016. In *bpptik.kominfo.go.id* (pp. 1–3). Retrieved from https://bpptik.kominfo.go.id/2016/09/09/2190/inilah-peringkat-e-government-indonesia-berdasarkan-survei-pbb-2016/