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WEB PROTOTYPE FOR DISPLAY INFORMATION OF VILLAGE PROFILE, A CASE STUDY IN THE VILLAGES UNDER ASSISTANCE BY GORONTALO STATE UNIVERSITY

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ABSTRACT

This research is aimed to design a prototype website contains profile of villages under Gorontalo State University (UNG) assistance. It is designed modularly to enrich the data served in UNG's website. This is important considering the implementation of four pillars of UNG which one of it, is totally IT based to be able to manage its documents and implement the "TridharmaPerguruanTinggi" (three universities deeds) especially implementation of community services. In this sense, it is serving as the database for all community services that have been done by UNG. For these villages the information serves to open opportunity to share eksternal resources to strengthen the villages institution, optimization of villages resources, capacity development of villagers, and sustainability of village governance which globally presented, which eventually improve the promotion of villages resources.

This research is made with prototype that enables sustainable development of information systems and adjusted toadaptively with current development of information technology. It is planned to be carried out in two years and first year output is a database and website contained these villages' profile. Website prototype result from this research in the first year is make possible to develop a geographical information system in second year, with a little modification in database and the interfaces.

Keyword: prototype, website, guided village.

1. INTRODUCTION

One of three universities deedsin Indonesia is community services. GorontaloState University (UNG), the biggest university in the Gorontaloprovince, North region of Indonesia, implement a variety of community service, whether performed by faculty and students. In UNG Strategic Plan 2010-2014 [6], stated that the implementation of community service is done in the form of training, community service both economic and social, guided village, illiteracy eradication, field working college (KKS), 9-year compulsory education, disaster management, and assistance for economic empowerment.

From a variety of service activities as outlined previously, with not override other activities, one of the activities that are sustainable is guidedvillage. It can be interpreted as a guided village, a model village where UNG intensively devote all available resources to develop a pilot villages to become self-sufficient villages and qualified and went on to become a role model for other villages. UNG with all the resources available it is possible to make this happen and is more than enough to find any solution of all the problems that exist in the village. For issues such as rural infrastructure, UNG has the engineering faculty. Economic issues can be handled by economic experts at the faculty of economics and business. Social problems can be solved by the faculty of social sciences. In order to increase community capacity through education and training, UNG has a faculty of education with complete of science learning facility. And so on, so it would seem a real touch of the largest universities in the province of Gorontalo to realize the community services as a part of college activity.

One of guidedvillage of UNG is Dulamayo Selatan (South Dulamayo), near Gorontalo city, Indonesia. It is a village in the district of Gorontalo. As a village built that assistanced by the largest university in Gorontalo, information of village profile and/or general information of potencial resource in the village is not vague for all stakeholders in the UNG campus. With the availability of information is brightly lit and then allow all stakeholders in the campus to focus available resources to be directed to the village development. Unfortunately, of all the searches done on the official website UNG have not found it meant.

Based on the above presentation, will be made a prototype database and website (Web-based Information System) which presents a profile of assistance village of UNG with modularly designed and can be a add into UNG's infrastructure of information.

2. RESEARCH TOPIC, RELATED APPLICATIONS AND REGULATIONS

2.1 Research Topic

This Research specifically focused on the compilation and analysis of data community service, database design and integrate the information system prototype, designed in a modular fashion, presenting information about the village profiles were scouted by UNG, so it can be added to a web infrastructure that has been available in the UNG.

2.2 Related Applications

From theliterature study, researchandapplication ofinformationsystemsthatare similar tothe informationsystemthatwillbe developedare describedas follows.

a. www.pesat.org, Thissitepresents theIntegrated RuralServices(PESAT) run by an interdenominationalChristian serviceorganization, established in1987 as aresponse to the calltobuildvillagesinIndonesiathrougheducation, health services, economicandspiritual. In the deep searchof this websitchave not found ainformation thatcontainsdata specificallyrelatedcompletevillageprofile data, monographs, a map ofthe village, the village's strategic plan orprogramthathus beenandwill bedone [15].

 http://mandalahurip.or.id. awebsite for Mandalahurip village located in the district Jatiwaras Tasikmalaya regency, Indonesia. The website is quite complete but unfortunately only contains information for one village,

the village Mandalahurip [8].

c. http://id.wikipedia.org. Thiswebsiteis anonlineeksiklopedi, tofurtherexplorethis sitetofindinformation on aparticulararea of the provinceands everal villages. Unfortunately, from deep searching have been done specifically for the area provincial level data are relatively complete, but the information presented to the

villagelevelhas not beenmuch tobe explored [7].

developedbyDako, AmirudinY. madein 2010 for www.database.teluktomini.org,Thiswebsitewas theIUCN(InternationalUnionfor Conservationof Nature) Asianregional, well known asSUSCLAMprogram(TominiBaySustainableCoastalLivelihoodsandManagement). This siteprovides information on all the programs guided villages and contains information related to the study of participatory village. completeandunfortunatelyonlypresent datathatvillagetouched informationpresentedis programs[2,3].

Based on the above, all theliteraturesearchhas been done, has notfoundthe informationsystemcontains dataabout village profileespeciallyvillage under UNG assistance. Community serviceonthe agency's websiteatUNGitself doesnotspecificallyrelated todata andinformation availableon theactivities ofthe targetvillagesandKKShas been done.

2.3 Regulations

In the Ministerial Regulation of the Republic of Indonesia No. 12/2007 about Guidelines for the data Preparation and Utilization of Village Profile explained that the Village profile a comprehensive picture of the character of the village and sub-district families that include basic data, natural resources, human resources, institutional, infrastructure and facilities as well as the progress and problems faced by rural and urban. Profile of villages and sub-family consists of basic data, the potential data of rural and urban, and development level [4].

Furthermore, In the Ministerial regulation (Minister of Home Affairs)no. 13/2012 about village Monograph, explained that the village monograph is the set of data held by the village government and arranged in a systematic, complete, accurate, and integrated governance. Rural and urban monograph contains general data; personnel data; authority of data; financial data, and institutional data [5].

3. OBJECTIVES AND USABILITY OF RESEARCH

3.1 Research Objectives

- a. Compilation and analysis of data on community service activities that have been performed UNG specifically target village profile, monographs, spatial data, and the results of the activities that have been carried out in the village built and other relevant data. The compilation will be input to the determination of the variable / entity database.
- b. Designing a database based on the entities / variables defined in the previous analysis. The database needed to be guided village profile data storage
- Designing a web-based information system prototype that presents profiles village under UNG assistance.

3.2 Research Usability

- Be a source of information for all parties associated with the implementation of 'Tridharma perguruanTinggi', especially thecommunity service activities that have been carried outbyUNGin their guided village which display through the internet browser and can be accessed globally.
- 2. facilitating access to UNG guided village information for the needy,
- facilitate monitoring of community service activities conducted by the State University of Gorontalo especially in the guided village,
- develop means of supporting information and documentation activities about community servicebased Information technology/IT.
- a blueprint for the development of IT applications designed on a modular basis for documenting and presenting information about guided villages, which can further broaden the variety of infrastructure present information that is managed by UNG,
- be a reference for decision makers in determining the development of related policies and rural development in order to maximize the planning target community service activities are integrated.

4. METHODS

This research has been carried out in the whole village under UNG Assistance, community service agencies (LPM)of UNG, relevant agencies in local government (village empowerment agency) and in the computer lab of the Faculty of Engineering UNG. This research isplanned for two years starting in July 2013-July 2015.

The main ingredient is the research data collected from guided village and related agencies. Such datacan be eithermonographs, village medium-term developmentplan (RPJMDes), villageprofile, location coordinates, mapsandother supporting data. For spatial data, was taking some points in each village using GPS (global positioning system). Some data can be obtained by observation and interviews with village officials, villagers, KKS students, NGOs and LPM UNG. Other data can be obtained by copying the data contained in the local government district / city and / or use the search engine available on the internet.

The dataobtainedare usedassamplesforthe databaseplanning requirements, interfacedesign, and outputdesignofinformation systemsapplications. By considering the wide scope of the study, especially for village monograph / village profile, which will be discussed in this study is that the data is considered important and can describe in general and concise profile of a village built. Data is collected from the village profiles / monographs, and then some of the data that are considered less relevant to the theme of the study will not be discussed further.

The method used in this study is a prototype. Prototype method chosen because it allows the process of sustainable development of the information systems that are made by adjusting the needs and the latest technology in the presentation of information systems.

The tools used in this study is

- ForcodingapplicationsusesoftwareprogramMacromediaDreamweaverMXversion
 [9] andNotepadapplicationthat is integrated in the Windowsoperating system
 [16].

Todesignthe interfaceusedAdobePhotoshopCS3or later [10],

 The systemusedfor testingInternetExplorerversion6.0from Microsoftcorporation[13] andMozilla Firefoxwebbrowser made byMozillaFoundation [14].

5. RESEARCH STAGES

The research began by collecting baseline data in particular monographs, rural and urban profiles. The data have been obtained and analyzed and sorted to determine the variables needed in information systems following the method used.

The method used in database design and information system design using a prototype. Prototype method allows to build an information system that can function in accordance with the objectives set out early and allow also for the ongoing development process of information systems developed to suit the needs and the latest technology in the presentation of information systems.



Furthermore, the research stage is given in the following figure.

Figure 1 research stages

6. RESULTS AND DISCUSSION

6.1 UserIdentification

Baseduseridentification processresult thatusers of the information system is a higher education institution, UNG/LPM, faculty staff, students, governmentand community partner villages, NGOs, local governments and the general publicaudiences.

6.2 Resultsof Data Collection

The process ofdata collection is doneby tracking therelevantliterature, interviews and surveys to collect data sample of monograph/profile of guided village. Location data collection is guided villages, LPM, related agencies and the interpret

Literature searchesare meantto supplementthe data, theory andmaterials/applications associated with the study. The data were then used as data samples for designing data bases on the next step.

Surveycarried outfora closer look atthe village'sbuilt, takingthe primary data, and interviews were conducted to explore further theneeds of potential users and complete availability of the necessary data in the system development. Informal interviews conducted on all prospective users of the system. Furthermore, the results of data collection described below respectively.

6.2.1 LiteratureSearch Results

From the literature search process, among others obtained,

- There is an application related to the management of rural and urban profiles (Prodeskel-PMD) which is managed by the Director General under the Minister of Home Affairs of Republic of Indonesia [1]. Further investigation has been carried out and found that it takes special access to be able to use the application in question. Data are shown for guest users only data summary that has been done by all the village is listed on the application. In other words, to use the intended application requires a login process that requires a username and password input.
- The legal basis for making village profile and monographs, referring to references that have been written before (sec. 2.3).
- The number of guided village of LPM UNG today there are 12 villages, located in 4 districts in Gorontalo province, Indonesia.

6.2.2 Survey Results

Among other survey results are outlined below

- Currently in LPM UNG no website that specifically manage data guided villages, guided village data can only
 be found in separate files and treated with a variety of applications. Related databases village built yet
 available.
- Data related to the progress and results of the field activities are not recorded in the database and can only be found in the report of activities, and even then in a sober condition.
- At the village level, village profile data created in a book by following the existing format in the ministerial regulation of the village profiling. Furthermore, the book contains villages profiles is handed overto the local government in the form of reports and fill in applications on line 'Prodeskel-PMD'. Unfortunately, not one that is guided village has completed ocuments/upload to the intended application.
- Means of access to information and data related to potential of village yet freely available and relatively difficult to obtain specific information village.

6.2.3 Interviews Results

Compilation of the results of subsequent interviews can be seen on mapping user requirement below.

6.3 VariableInitiation

6.3.1 UserRequirement Mapping

The results of the survey and interview then compiled and mapped based on the needs of each user and then presented below.

Table.1Results of User Requirement Mapping

USER REQUIREMENT	USER			
	A	В	C	D
Database guided village	y.	¥		
Application of information systems that manage integrated data of guided village	y v	V		
Data guided village can be displayed in real time and updated	V	V	V	Ý
Information about 'TridharmaPerguruanTinggi' activities available without being restricted byworking hoursandeasilyaccessible	Ä	٧	٧	V
Concise informationaboutguided villageprofiles	V	V	V	V
Informationaboutguided villagemonograph	V	V	V.	V
Informationaboutthe availability of resourcesand theadministration of the guided village	V	V	N	V
Informationrelated tocommunity service activities/ KKS and its outputs	N	N	N	×
Informationaboutgovernmentprograms/stakeholders	N.	V	V	V
Informationrelating to the activities/guided villagerelatednews	N.	V	N	N
Informationaboutguided villagepresentedgloballyandeasily accessible	N.	V	V	V

Description: A: collegeinstitutions, UNG/LPM, faculty, students; B: governmentandvillager in guided village; C: local government; D: NGO/community.

6.3.2 SystemRequirements

Based ondata collectedin the fieldand theidentification of userneeds, furthermore both results are analyzed. Analysis shall include the purpose of making information systems, organization alumit which will manage the system, the ability of information systems, the functions that can be performed by the system, and the design of the function/menuinformation systems in general. Results of this analysis are described below.

a. The Purpose of the Information System

The Purpose of making information system is to create a prototype system that presents information concise information about guided village profiles integrated with database management.

b. Organizational Unit

Prototypeinformationsystemthatis designed, usedonUNGcommunity serviceagencies (LPM)to supportdeveloping ofprocessanddocumentationimplementation of 'TridharmaPerguruanTinggi'.

c. Ability of Information Systems

Expected results of the designed system is an integrated web-based system that can be accessed without restrictions of time and is not limited by geography, modulars o it can be inserted into existing systems and be able to handle common things below.

- inputof data, especiallydata fromactivitiesin the guided village withlimitedaccess(for administrators on organizational units).
- 2. Outputprocessingbased on the dataentered,

- Displaysdataaboutthe implementation of community activities devotion, in real time, covering activities temporarily devotion, and routine activities such as KKS and other relevant information.
- 4. Displaysgeneral dataabout thevillage built
- 5. Displaysa summary of the profileormonograph, generally withquick and easy access
- Displayingdevelopmentandrural developmentprogramsthat have been implemented in the guided villages, bothbyuniversities and government institutions/ relevant stakeholders, and
- 7. Can be accessed through the internet browser without the limited space and time.

d. System Functionality

Based on the basic requirements of the desired information system, and then compiled into the more specific needs, which will be represented in the form of functions and menus that exist in the information systems will be developed.

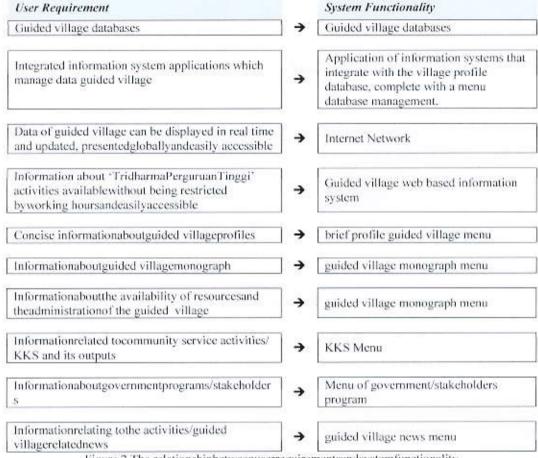


Figure 2. The relationshipbetweenuserrequirements and system functionality

Furthermorethe functionality of the system described in the menuas follows.

- 1. Brief profilesguided village
- 2. Devotionwhichhas beenheldin the guided village
- 3. KKS activities, include with programsand itsoutput
- 4. News andupdates of guided village
- 5. Databasemanagement

e. System Architecture

The systemeonsistsofa singledatabasethat is used toloadprofile dataandother supporting data. Thisdatabasecan beshapedmoduleto be insertedin the LPM's database. Similarly, theserver, the serverisalreadyavailable today can be used to guided village profiles.



Figure 3.System Architecture

Informationsystemdesignedforthe userswhouse a computerthathasInternet network(including mobilecomputers, notebooks, netbooks, ipadandsmartphone). How toaccessthe systemcan be seen in the process of systems cenarios in the next section.

6.4EntityVariable

In general, a variableentity canbe divided into three groups which are directly related to each other, iein the guided village entities, entities in UNG institution, and entities to support the management of the planned system.



Figure4.EntitityVariable

The next three entities are described below

- Guided village entities, including, among other master villages and village profiles, which contain attributes with reference [4].
- Entities in UNG institution, including programs, activities and results related to the implementation of 'TridharmaPerguruanTinggi', for example, KKS, community service and related activities other.
- Supproting entities, intended to support the management of information systems in a sustainable and integrated database system. Entity referred to is user, info and comments.

6.5 Database Design

6.5.1 Logical Design

Logicaldesignis doneby setting theprimary keyandforeign key oneachtableand thenlinked tocorrespondingtables. Logicaldesign stageresults are presented in the form of footage obtained from the relation tablemanagement application database (phpMyAdmin), as below

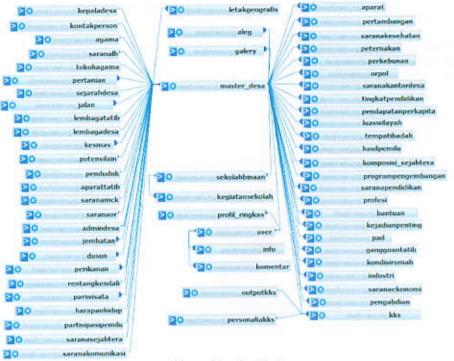


Figure 5.Logical Design

6.5.2 ERDiagram

In consideration of the available writing space, then the following ER diagram has been simplified so it can be contained in this manuscript.

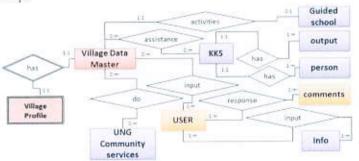


Figure 6. ER Diagram

6.5.3 PhysicalDesign

Physical database design is done by using a MySQL database with PHPMyAdmin application, generating database called 'desabinaanung' by the number of tables is 51 tables.

6.6 Design of Information Systems

Stage of the system design process, consisting of system process scenario determination, process designand system interface design on information systems to be created.

6.6.1 System Process Scenario

Partieswill beinterested in this information system is divided into two, namely administrator/manager of the system and those who benefit from the system/users of the system.

- System manager (administrator), tasked with managing the system, which includes managing databases and information systems as a whole. To protect the security of the data, then the whole process of managing a database is protected by a key word to avoid things that are not desirable.
- Users of the system (clientbrowser), all parties use information systems. These parties may include college/institution, UNG/LPM, faculty, students, government and villager at guided villages, local governments, NGOs and the public at large. All services provided by the information system an be accessed by the user except forman aging database access.

6.6.2 System Process

To illustrate theflowof informationon the systemorapplication, useDataFlowDiagrams/DFD, DFDis alsousedtodescribethe systematevery level, broken down intomore specificsystem, begins with acontextdiagramorlevel 0DFDas a descriptionof the mostcommonsystems, and furtherbroken down intogreaterlevels ofdetail.

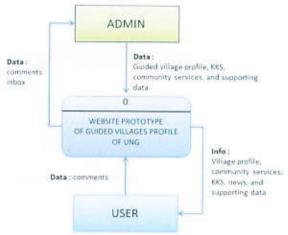


Figure 7.Contex Diagram

6.6.3 InterfaceDesign

Interface designis divided intotwosection, namely theuserandtheadministrator/systemmanager. It isintendedtodistinguish clearlystatewhenacessingthe system.



Figure8.Interface Design

6.7 Implementation

Implementation is done after the design phase is done, appropriate steps below.

6.7.1 Algorithm Determination

Program algorithms set by referring to the purpose of designing a modular system that can be easily inserted in the existing system. To facilitate integration with the old system, the system is designed adaptive or can be easily customized to follow the existing system, so the logic of the process or algorithm that is used in the execution and output of the system input using a simple algorithm and system processes commonly used and shared in the process

as simple as possible. Reference used in determining the program algorithm is the scenario process DAD system and predetermined.

6.7.2 Build database

Database used in the system is built using the MySQL database in PHPMyAdmin application contained in the XAMPP package. Database making reference is result of database design that have been made previously. This process then generates database 'desabinaanung' which consists of 51 tables. The tables are then filled with a sample of the data collected.

6.7.3 Coding

The process of writing source code program (coding) is done after the design of the interface is complete. The interfaces is input and output form, andthe pages todisplay the data.

Furthermore, the applicationsource codewrittenusingnotepad andMacromediaDreamweaver (trial version). Writingsource coderefers to theseenarioas well as thesystemprocessesa predeterminedalgorithm. Resultscompilingsource codeprogramsis presentedbelow.



User side

Administrator side

Figure 9.Start Page



Figure 10.Some View of the User Side

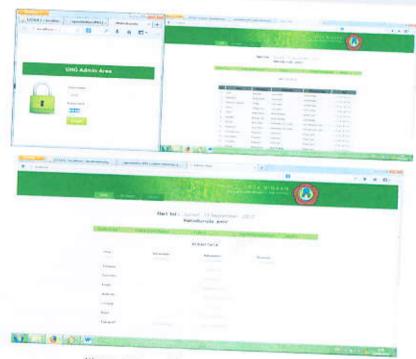


Figure 11. Some View of the Administrator Side

6.8 Testing

Onlinesystemprototype testingdone in order toseewhetherthe needs of cachuserare metwith a dishthatcontainedinformation the prototypesystemmade. This processis doneby contacting the contacted the data collection process) to access the address requested prototypes that have been created and write suggestions / questions / criticismon the formavailable on the onlinesystem.

The same thingconveyedio the academic community of UNG, such as students, faculty staff and others UNG's employeesviainternalinteractionmediasuch astelephone, socialnetworking and orally, to access website prototype by giving access address.

For the guided villages that have limited access to the internet, do online and offline testing by showing the results of a prototype which has been presented online to village officials in several villages. Determination of sample villages was carried out with consideration of the availability of communications networks (handphone and modem), time, distance and transportation access.

User responses/recomendationstotheprototypethat have been madesubsequentlyrecorded,compiledandsummarizedin asubsequentrecommendationsystem changes. Based on such recommendations, further improvements are done on the system as needed, and subsequently recorded on the maintenance log.

7. CONCLUSION

From theresults ofthis study have beenobtained

- Compilation and data analysis about community service activities undertaken by UNG especially inguided villages, which become inputs to the determination of the variable/entity database.
- Database'desabinaanung' whichconsistsof 5 Itablesandintegratedwith a prototypeinformationsystemwhich is usedtodata management of guidedvillageprofile and community service activities are carried outby UNG.
- Web-based informationsystem prototypeto displaydetailed dataof vilageprofileand various data and information about UNG activities in their guided village.

8. RECOMENDATION

- LPMinstitutionin theimplementation of thefourpillars oftheUNG mainprogram, especiallytotally IT, shouldbegintoswitchfromtheoldsystemto a web-basedinformationsystemsparticularlyfornewer data
- In connectionwiththetransitiontothe new system, itrequiresthesupport of management, policy and strategyadjustmentstep in the process of adaptation to the system that has been developed.

Further information system development need to be done to improve the quality of information systems become
more reliable and which contain more complete information.

9. ACKNOWLEDGEMENT

Authors are grateful to the Research Institute of State University of Gorontalo and Directorate General of Higher Education – Ministry of Education and Culture Republic of Indonesia for providing financial support to complete this research.

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