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Web Based Archiving System with SMS Support

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ABSTRACT : This study aimed develop Web Based to SMS Archiving System with Support that would help the students, admin or whoever is in need to easily access this system. In order to reduce the cost and management and make it for convenient the user, this system included some of detailed information the regarding the students in their school. The researcher use Scanner for scanning the documents. This study designed and developed a Web Based Archiving System with SMS Support it specifically examined the quality of the develop software based on McCall's software quality Model. also determined Ιt the level of system acceptability based on the required functionality, to provide fast and easy way to find the documents for need. students Develop а system which easily handle and monitor the transactions of students who needs the specific documents and generate reports. The research process from conducting preliminary of initial design survey develop until the system underwent evaluations, reviews and updates. Findings reveal that the developed system

has passed all the criteria based on the McCall's quality model. software Ιt is concluded that the system is highly acceptable by endusers and provides fast and archive way to easy documents.

I.INTRODUCTION: According to EDAMS (2018). Stated that, a case study of a University Registrar in the Philippines. Derived from Inu.edu.ph, Development of Electronic Document Archive Management System, and this study would like to investigate the process of document retrieval and record keeping of the paper archives. It's a new way of record management and transaction processing that would achieve efficiency in processing student documents. It would be а great help to the administrative personnel, academic personnel, grantors stakeholders, or and students in updating, retrieving and generating student data. Every year, the students of Sagay National High School-Rizal Extension are rapidly increasing. Security maintenance of the documents and files are going harder difficult. and The school

receive lots of request, but they cannot response immediately due to lack of facilities and personnel for some students documents are still manually collected and need arrangement therefore those who inquires and sends request form have to wait for five (5) to more days to get a response. The current practice of Sagay national high school Rizal-extension to respond to the request of students and other school is check the name and to documents of each students well manually as as verifying whether they can release them to the student of this or not. Because practice, the requesting parties wait and need to return after three days or more to get the documents. With the help of Web based System with SMS Archiving will Support the qap be lessened or eliminated. Web Based Archiving System with SMS Support is a system that will develop manage and keep all information or documents of students the in every institution. This system will help the institution to make the administrative task and provide real-time access to the data. Building this web system in based interface will further help accessibility through ease any web browser. Through the use of Web Based Archiving System with SMS Support, the staff can store and look for students personal data in the easiest and fastest way possible. Gathering data and storing files from new enrollee and searching for documents of old students in fastest manner. That а send person who wants to

request and ask for inquiries they have the best alternative like usinq our will system. And receive within immediate response one (1)day, unlike the manual inquiry that may five (5) consume or more days.

II. METHODOLOGY

This chapter presents the of the research system development methodology used researcher by the in the software development of the design methodology system, which includes the methods of research, methods of collecting data, development of research instrument, and sampling design. the With help of the tools and techniques, researcher will have the knowledge, skills, capability and to apply those series of information to their researcher's topic.

Software Development Model

This section presents the system design and methodology which includes the requirements, analysis, and documentation on the different stages such as data analysis and quick design, system design, prototype cycle, testing, and implementation.

Rapid Application Development



Prototype Model Approach

Figure 2.0 shows the Prototype Model used by the

researcher for the development of the system. Ιt different shows the processes that the researcher need to follow to have a better outcome for the developing system.

Planning

This aims to gather specific requirements software and data base. The researcher conducted interview to an the Secretary every year, the students of Sagay National Hiqh School-Rizal Extension are rapidly increasing. Security maintenance of the documents and files are going harder and difficult. The school receives lot of request, but they cannot ٩. respond lack of immediately due to facilities and personnel for some students documents are still manually collected and needs arrangement therefore those who inquire and sends a request form have to wait for five (5) or more days to get a response. The current practice of Sagay national high school Rizal-extension to respond for the request of students and other school is to check the name and documents of each students well manually as as they can verifying whether release them to the student not. Because of this or practice, the requesting parties need to wait and return after three days or more to get the documents. And seek suggestions for the respondents.

The researcher analyzed the information data, and the phase user needs. This helped the researcher to formulate a solution to the user needs. The researcher conducted a survey which was interview wherein verbal а researcher offered the the client developed project а that will be helpful in of accessibility. terms During the interview of the researcher, he/she explained different functions the of the proposed system wherein the client agreed and made some suggestion regarding what the researcher offered. conducting After an researcher interview the designs for developed the system.

Design

The researcher started to develop the system based on the requirements of the user ensuring the and system be design to more interactive and user with efficient friendly functionality. They first built is a prototype based the planned design on and data table. The researcher showed the architectural design of the system, the flow on how it works, and the functions of the that are included features in the system.

Coding

This is the development cycle stage, requirements refining will develop until the development is completed, and testing. In this study, programmer level 30% is had undergone testing

Analysis

by three experts with using Expert Testing (McCall's). Programmer level 60% is the user acceptance testing is performed by the researcher, and students secretary by using End-User (Self-made questionnaire, ISO). Programmer level 90% is the final testing; this will include the feedback of the proposed system before it will be implemented. It will inform the researcher also and the developer if there are any bugs, suggestion and if the system's functionality will works well.

Implementation

developed system is and tested, it has to be implemented in the organization. This phase includes training the users, providing documentation, and conversion from any previous the new system. system to During this stage preparation of the developed system is being processed and will system test be The executed. researcher should do some training the place of their client to system will make sure the totallv works. The will researcher refine the client's system by additional needs.

Maintenance

The project plan will be updated by the group during this stage. The team will be able to update user's documentation and perform user acceptance testing for the implementation of the project.

Respondents of the Study

Table 1.0 shows that the sample size in this study the are two (2) the Secretary and thirty-three (34)Students of Sagay National High School Rizal-Extension. The researcher used the purposive sampling

Respondent	Number Of Staff and Students		
Secretary	1		
Grade 10	34		
Total: 2	35		

technique.

III. RESULTS AND DISCUSION

Table 2.0: Evaluation Result given by the Respondents

The Quality of Developed Software in terms of Usability

The table shows the different criteria in terms Usability with of its corresponding Mean and Interpretation. On Operability the system was rated by the expert with a Mean of Three Point Thirty Three (3.33)which is interpreted as Average. On Training, the system was with a Mean of Three Point Sixty Seven (3.67) which is interpreted as Good. The Grand Mean in terms Usability Point is Three Five (3.5)which is interpreted as Average. The Overall Mean of the system based on McCall's software quality model resulted to Three Point Thirty Three (3.33) which interpreted as Average.

1.80

The	rese	archer	used			
follow	ving	rating	scale:			
Table	3.0:					
Score	Rang	e				
Interpretation						
4.21	—	Ve	ry			
5.0	0	Good				
3.41	_	Cood				
4.2	0	Good				
2.61	—	Average				
3.4	0					
1.81	_	De	0.10			
2.6	0	Poor				
1.00	_	Very				

the

The table shows the different interpretation of criteria which every shown below. Four Point Twenty One (4.21)Five (5.00)to interpreted as Very Good. Three Point Forty One (3.41) to Four Point Twenty (4.20) interpreted as Good. Two Point Sixty One (2.61)to Point (3.40)Three Forty interpreted as Average. One Point Eighty One (1.81) to Two Point sixty (2.60)interpreted as Poor. And One (1.00) to One Point Eighty (1.80) which interpreted as Very Poor.

Poor

TABLE 4.0 The Quality of the Developed Software in terms of the following software criteria

Criterion			Interpre
			tation
Effectiveness			
• Effectiveness		4. 11	Good
Efficiency			
• Efficiency		4. 28	Very Good
Satisfaction			
• Likability		4. 11	Good
• Pleasure		4. 28	Very Good
• Comfort		4. 42	Very Good
• Trust		4. 34	Very Good
Safety			
• Economic da risk	amage	4. 05	Good
 Health and risk 	safety	4. 28	Very Good
 Environmen harm risk 	tal	4. 28	Very Good
Usability			
• Learnabili	ty	4. 00	Good
• Flexibility	Y	4. 42	Very Good
• Accessibil	ity	4. 48	Very Good
• Context conformity		4. 48	Very Good
Grand N	lean	4. 27	Very Good

The table shows the different criteria in terms of ISO with its corresponding Mean and Interpretation. On Effectiveness and Likability the system was rated by the respondents with a mean of Four Point Eleven (4.11)which is interpreted as Good. On Efficiency, Pleasure, Health and safety risk and Environmental harm risk, the system was rated by the respondents with а mean of Four Point Twenty Eiqht (4.28)which is interpreted as Very Good. On Comfort and Flexibility the rated system by the respondents with a mean of Four Point Forty Two (4.42) which is interpreted as Very On Trust Good. the system rated by the respondents with a mean of Four Point Thirty Four (4.34) which is interpreted as Very Good. On the Economic damage risk the system was rated by the respondents with a mean of Four Point Five (4.5) which interpreted as Good. On the Learnability the system was respondents rated by the with a mean of Four (4.00)is which interpreted of On Accessibility Good. and Context conformity resulted to Four Point forty Eight (4.48) which is interpreted as Very Good. The Grand Mean of the system based on ISO resulted to Four Point (4.27)Seven which Twenty interpreted as Very Good.

Conclusion

The in light findings of the study, the researcher conclude that the Web Based Archiving System with SMS Support is of good quality system, highly accepted by end users, secured, reliable, fast and easy to use, provides fast and easy in getting, way storing, adding, and editing student's data as well as generating student's reports selected by the user.

1. The system has archived the documents of Sagay National High School-Rizal Extension by using the developed system. 2. The system has generated needed reports and forms by the School Office.

3. The system has passed the evaluation based on McCall's Criteria, thus considered as of good quality.

The system has passed all the characteristics from ISO/IEC 25010, thus it is considered as usable.

Recommendations

Based on the findings and conclusions drawn, the following recommendations are put forward:

The Sagay National 1. High School-Rizal will Extension consider implementing the system to manage the documents easily and faster; however, the system can't send SMS without signal. In addition, it is needed to improve the technicalities the of system.

2. It is also recommended that similar study may be conducted to assess further the effectiveness and usefulness of the developed system.

REFFERENCES

Document Archiving System. (n.d). Retrieved June 17 2018 from https://patent.google.co m/?q=documents7=system&q =data&q=comuter&=device&am p; before=priority:19961127scholar

Electronic mail archiving system & amp; method. (n.d.). Retrieved June 17, 2018 from https://patent.google.co m/?q=documents7=system&q =data&q=comuter&=device&am p; before=priority:199611217

Data Handling and arching system. (n.d). Retrieved June 17, 2018 from https://patent.google.co m/?q=documents7q=system& q=data&q=comuter&=device &before=priority:1996112 17scholar

EDAMS: A Case Study of a University Registrar in the Philippines. (n.d). Retrieved June 17, 2018 from Inu.edu.ph.

Power school archived duplicate student record duplicate (n.d). Retrieved June 17, 2018 from nc-sis.org. Special thanks to Archielyn Bagaslo, Christy Rose Codico and Daisy Gayares for taking a big part on this research. Also, Sagay National High School Rizal-Extension for making the test of the system possible.

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