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The Effect Of Information System Quality And Information Quality On User Statisfaction Accounting Information System

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ABSTRACT

The purpose of this study was to examine the influence of the quality of information and quality of information systems to the satisfaction of the end users of accounting information systems. This research model is used with reference to the model in using information technology system that is the Technology Acceptance Model (TAM) developed by DeLone and McLean. Data were collected from questionnaires given to 110 employees at Kodam I/BB as information systems user. Questionnaires were received back from 78 questionnaire respondents, and only 74 questionnaires that can be used for further analysis. Data analysis was performed using regression analysis through SPSS version 17. The results showed that the quality of information systems and information quality affects the end-user satisfaction of information system. The results showed that the quality of information system and the quality of information has a positive and significant influence on the accounting information system of user satisfaction in Kodam I/Bukit Barisan. This shows that the better the quality of information system and the quality of information applied to the level of satisfaction of users of accounting information system are getting higher.

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1. INTRODUCTION

Within the scope of information systems, user needs for information systems must be well detected by the system designer so that the system that will be implemented in an organization can meet the needs of the users concerned. Fulfilling these user needs will later be able to provide satisfaction to users and motivate them to do a better job. With the development of technology that is able to have a great influence on various aspects of life, be it around residences, universities, the business world or in offices. Users expect the information systems department to assist them in various matters, such as hardware and software selection, system installation, troubleshooting, LAN connection, system development, and training. This expansion of responsibility can be seen from the availability of various forms of facilities such as information and assistance centers. In other words, a successful information systems department must be effective for both users and the organization. Thus, it is able to provide satisfaction to its service users.

The system is said to be successful if it has three components (benchmarks), namely system quality, system benefits and user satisfaction. In addition, today's computer-based information systems play an important role in supporting decision-making. The measure of the success of an

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information system is divided into two general categories, namely economic and personal. Economic results are meant in the form of an increase in profits or profits in a company. While personal results are not directly related to changes in profit, but lead to the satisfaction of its users and the use of the information system itself. This opinion shows that success in the development of information systems related to users is determined by the extent to which participation can lead to user satisfaction.

Delone and Mclean (1992:60-95) propose a model of information system success which consists of 6 categories, namely: system quality, information quality, usability, user satisfaction, personal influence, and organizational influence. In this study, we will use the influence between the quality of the accounting information system and the quality of the information produced and the satisfaction of users of the accounting information system. The quality of the information is related to the characteristics of the information in such a way that the output produced by the information system can be useful for its users. This results in the quality of the information system having an impact on user satisfaction. For this reason, it is hoped that the measurement of the effectiveness of this information system can be considered for information system programmers to design information systems for their companies, and can analyze how far the role of the system is to help achieve company goals. We do not want the implementation of this information system that requires very expensive costs not to have a positive impact on the company, or its utilization is not carried out optimally. A quality system will encourage the success of the system, another influence is an increase in overall performance, both concerning employees, leaders, owners, and the organization itself. In this case, a system is said to be running effectively.

2. RESEARCH METHOD

Researchers use this type of statistical research by using primary data obtained directly from the original source through questionnaires or written questionnaires given to users of information systems.

2.1 Reliability Test

Reliability analysis refers to an understanding that an instrument is reliable enough to be used as a data collection tool because the instrument is already good.

a. Hypothesis testing

Hypothesis testing was carried out with the t test used to test the effect of each independent variable, namely the quality of the information system on the dependent variable, namely user satisfaction.

b. Testing Criteria

Ho cannot be rejected (accepted) if F count < F table at = 5%. Ho is rejected and Ha is accepted if F count > F table at = 5%.

c. Coefficient of Determination Test

The coefficient of determination essentially measures how far the model's ability to explain variations in the dependent variable is. The coefficient of determination is between zero and one. The small value of the coefficient of determination means that the ability of the independent variables in explaining the variation of the dependent variable is very limited. A value close to one means that the independent variables provide almost all the information needed to predict the variation of the dependent variable.

2.2 Data Analysis Techniques

a. Descriptive Analysis Method

Descriptive analysis method is a way of describing and interpreting existing data so as to provide a clear picture of the problem to be studied. Descriptive analysis was carried out by researchers by distributing respondents' answers in the form of tables so as to obtain a clear picture of the distribution of respondents' answers.

b. Quantitative Analysis Method

Researchers analyzed the data using a simple linear regression analysis method. In analyzing the data, the researcher used SPSS (Statistical Product and Service Solution) version 17 for windows.

3. RESULTS AND DISCUSSIONS

3.1 Data Validity and Reliability

A good instrument must have a high level of validity and reliability. An instrument is said to be valid if the research instrument can be used to measure what should be measured. While an instrument is said to be reliable if the research instrument, when used several times to measure the same object, will produce the same data.

No. Item Question	Rcount	Rtable	Information	
1	0.832	0.235	Valid	
2	1.029	0.235	Valid	
3	0.837	0.235	Valid	
4	1,110	0.235	Valid	
5	0.942	0.235	Valid	
6	0.885	0.235	Valid	
7	0.642	0.235	Valid	
8	0.740	0.235	Valid	
9	0.829	0.235	Valid	
10	0.734	0.235	Valid	

Table 1. Validity for Information System Quality Variable (X1)

Table 2. Validity for Information Quality Variables (X2)

0.235

Valid

0.872

No. Question Items	Rcount	Rtable	Information	
1	0.781	0.235	Valid	
2	0.815	0.235	Valid	
3	0.811	0.235	Valid	
4	0.688	0.235	Valid	
5	0.735	0.235	Valid	
6	0.634	0.235	Valid	

Table 3. Validity for Information System User Satisfaction Variable (Y)

No. Item Question	Rcount	Rtable	Information	
1	0.688	0.235	Valid	
2	0.747	0.235	Valid	
3	0.589	0.235	Valid	
4	0.718	0.235	Valid	
5	0.662	0.235	Valid	
6	0.772	0.235	Valid	
7	0.639	0.235	Valid	
8	0.598	0.235	Valid	
9	0.820	0.235	Valid	
10	0.742	0.235	Valid	
11	0.708	0.235	Valid	
12	0.716	0.235	Valid	

The analysis continued with the reliability test. To test the reliability is done by comparing the value of ralpha with rtable. In the reliability test, the ralpha value is the alpha value contained in the Reliability Statistics table in the Cronbach's Alpha column. The condition is that if ralpha > rtable, then the statement is reliable. The ralpha value for the information system quality assessment

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instrument, information quality and information system user satisfaction can be seen in the following table.

Table 4. Score Ralpha For Information System Quality Assessment Instruments, Information Quality And Information System User Satisfaction

Instrument	Cronbach's Alpha	Information
SI quality	0.794	Reliable
Information Quality	0.762	Reliable
SI user satisfaction	0.739	Reliable

From the test results, it turns out that the value of ralpha of the quality of information systems, information quality and user satisfaction of accounting information systems is greater than rtable 0.229, so it can be concluded that all of the statements above are reliable.

3.2 Descriptive Statistics

Descriptive statistics in research are basically a process of transforming research data in tabulated form so that they are easy to understand and interpret (Indriantoro and Supomo, 2002). This technique is the most widely used technique to describe the data. Descriptive statistics indicate the number and percentage of respondents, objects that fall into the existing categories. This technique is usually used to provide initial information in research about the object or respondent.

The following is the result of the processed questionnaire which is a description of the research based on the respondents' answers to the statement of the independent variable and the dependent variable.

Table 5. Category Value of Respondents' Answers to Variable Statements X1

		Amount		
Scale	Category	Frequency	Percentage	
43-45	SSS	13	17.57%	
39-42	SS	30	40.54%	
35-38	S	17	22.96%	
31-34	TS	11	14.87%	
27-30	STS	3	4.1%	
Am	nount	74	100	

Based on the results of the answers in the table above shows that by 17.57% as many as 13 of 74 respondents answered strongly strongly agree, 40.54% as many as 30 of 74 respondents answered strongly agree, 22.96% as many as 17 of 74 respondents answered agree, 14 ,87% as many as 11 of 74 respondents answered disagree and 4.1% as many as 3 of 74 respondents answered strongly disagree that the quality of the information system implemented can increase data processing capacity, can be applied to other computers, adequate security system, easy to correct, easy to learn, fast access and available help facilities.

Table 6. Category Value of Respondents' Answers to Variable Statements X2

Scale	Category	Am	ount
		Frequency	Percentage
22-24	SSS	14	18.92%
19-21	SS	39	52.70%
16-18	S	19	25.68%
13-15	TS	2	2.70%
-	STS	-	-
Amo	unt	74	100

Based on the results of the answers in the table above, it shows that by 18.92% as many as 14 of 74 respondents answered strongly strongly agree, 52.70% as many as 39 of 74 respondents answered strongly agree, 25.68% as many as 19 of 74 respondents answered agree, 2,70% as

1.35%

many as 2 of 74 respondents answered disagree and no one stated strongly disagree that the quality of the information produced is accurate, reliable, timely, relevant, easy to understand and detailed.

		Amount		
Scale	Category	Frequency	Percentage	
46-49	SSS	19	25.68%	
42-45	SS	40	54.05 %	
38-41	S	6	8.11%	
34-37	TS	8	10.81%	

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STS

Amount

Table 7. Category Value of Respondents' Answers to Variable Y . Statements

Based on the results of the answers in the table above shows that by 25.69% 19 of 74 respondents answered strongly strongly agree, 54.05% as many as 40 of 74 respondents answered strongly agree, 8.11% as many as 6 of 74 respondents answered agree, 10 ,81% as many as 8 respondents answered disagree and 1.35% as many as 1 of 74 respondents answered strongly disagree that the quality of information systems and information quality affect the satisfaction of users of accounting information systems.

3.3 Simple Linear Regression Analysis

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Table 8. Simple Linear Regression Calculation Results Coefficientsa

Model		dardized ficients	Standardized Coefficients	T	Sig.	Collinearity S	Statistics
	В	Std. Error	Beta			Tolerance e	VIF
(Constant)	46,251	5.280		8,760	.000		
Information System Quality	.226	.116	.219	9.942	.026	.975	1.026
Information Quality	.393	.148	.300	8,657	.010	.975	1.026

Dependent Variable: Information System User Satisfaction

From the results of these calculations, the constant value (a) is 46.251 and the value of b1 is 0.226 and b2 is 0.393 so that the simple linear regression equation obtained is:

Y = a + (b1X1+b2X2)

Y= 46,251+0,226X1+0,393X2

From the above equation can be interpreted as follows:

- a It is known that the constant is 46,251 with the coefficient of information system quality (X1) and information quality (X2) is fixed/constant, so the user satisfaction value of accounting information system is 46,251 units.
- b. The value of the information system quality coefficient is 0.226, so a change in the predictor variable of information system quality (X1) by one unit will result in a positive change in user satisfaction of accounting information systems of 0.226 with the assumption that the predictor value of information quality (X2) is fixed. Thus, a positive predictor of information system quality (X1) will affect the increase in the value of information system user satisfaction. On the other hand, if there is a decrease in one unit of information system quality predictor, it will reduce the satisfaction value of accounting information system users by 0.226 units.
- c. The information quality coefficient value is 0.393, so a change in the information quality predictor variable (X2) of one unit will result in a positive change in user satisfaction of accounting information systems of 0.393 with the assumption that the predictor value of information system quality (X1) is fixed. Thus, the positive predictor of information quality (X2) will affect the increase in the satisfaction value of accounting information system users. On the other hand, if there is a decrease in one unit of information quality predictor, it will reduce the satisfaction value of accounting information system users by 0.393 units.

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a. Test R Square (R2)

To find out how much influence the quality of information systems and information quality on user satisfaction of accounting information systems can be seen through the coefficient of determination (R2) using the SPSS program in the following table.

Table 9. Calculation Results of R Square (R2) Model Summaryb

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate	Durbin - Watson
1	.542a	.617	.492	1,830	1995

Based on the results of the calculations in the table above, it can be seen that the value of R Square (R2) is 0.617 or 61.7%, a value of 61.7% indicates that the quality of information systems and information quality has an influence on user satisfaction of accounting information systems of 61.7%, while the rest is influenced by other factors.

b. Hypothesis test

The hypothesis in this study states that the quality of information systems and information quality have an influence on user satisfaction of accounting information systems.

The results of this test show that the significance value of t is smaller than the specified (α = 0.05), which is 0.679. In addition, the results of this test also show that the t-count value is greater than the t-table value (9.942 > 1.993) for the quality of information systems and (8.657 > 1.993) for the quality of information. Based on the test results, it can be concluded that H0 will be rejected and H1 and H2 will be accepted, meaning that the quality of the information system and the quality of information have a positive and significant influence on the satisfaction of users of accounting information systems.

Rejection of H0 and acceptance of H1 and H2 can also be seen from the calculated value of F and table F. Based on the test results shown in the table, it can be seen that the calculated value of F is greater than the value of table F (37.761 > 3.995) so it can be concluded that H0 will be rejected and H1 and H2 will be accepted, meaning that the quality of the information system and the quality of information have a positive and significant influence. on the satisfaction of users of accounting information systems.

4. CONCLUSION

Every organization, including public sector organizations, is required to always improve performance. This encourages organizations to utilize information systems in carrying out their daily tasks. The application of information systems in the organization will facilitate and accelerate the completion of tasks by each individual and an adequate information system will affect the level of satisfaction of users of the information system.

The satisfaction of users of information systems implemented by an organization cannot be separated from the quality of the information system and the quality of the information produced by the system itself, so that it will determine whether the users of the system are satisfied or not.

This study examines the influence of the quality of information systems and the quality of information on the satisfaction of users of accounting information systems in this case the Management Information System Application and State Property Accounting (SIMAK BMN). The results of this study indicate that the quality of information systems and the quality of information has a positive and significant impact on user satisfaction with accounting information systems at Kodam I/BB. This shows that the better the quality of the information system and the quality of the information applied, the higher the level of user satisfaction of the information system.

Analysis of the coefficient of determination (R2) shows that 61.7% of the total level of satisfaction of information system users is influenced by the variables of information system quality and information quality, while the rest is explained by other variables outside the equation.

The sample taken by the researcher is only limited to one agency, so the conclusions of this study are not necessarily the same if the research is carried out on organizations in other sectors. And in the measurement of all variables of this study based on the perception of the respondent, so

that it can cause problems if the perception of the respondent is not in accordance with the actual situation.

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