THE EFFECT OF E-GOVERNMENT QUALITY (E-GOVQUAL) ON LOCAL GOVERNMENT E-GOVERNMENT USER SATISFACTION

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ABSTRACT

The measurement of E-Government user satisfaction at local governments in Indonesia still needs to be improved to achieve the high accountability demanded by the central government. Based on the theory of behavior, six factors influence the satisfaction of local government E-Government users, namely knowledge of ease of use, trust, function and form interaction, reliability, content and display of information, and support. This study examines the influence of these six factors on the E-Government Quality of local governments in the province of West Java. Respondents in this study were the head of the West Java regional government agency. This study uses PLS-SEM and succeeds in proving that there is a positive and significant effect of ease of use, trust, function and form interaction, reliability, content and display of information, and support for local government E-Government user satisfaction. These findings provide practical contributions as a guide for local governments to improve E-Government Quality. Future research needs to expand the scope of the observation area, incorporate subjective and objective scales of user satisfaction variables, and develop other variables based on other theories such as contingency theory, agency theory, and dynamic capabilities theory.

Keywords: User Satisfaction; E-Government Quality; Ease of Use; Trust; Function and Form Interaction

INTRODUCTION

Ensuring effective local government performance is crucial, particularly during a pandemic such as the current Covid-19 crisis. The Covid-19 pandemic has compelled local governments to strive for improved performance. The performance levels of local governments directly impact community welfare and the economic growth of associated regions (Hamid, 2018). However, the suboptimal performance of local governments has been further exacerbated by the Covid-19 pandemic, which began in February This has significantly disrupted the 2020. composition of the national and regional budgets for the Fiscal Year 2020, particularly in terms of revenue. State and local revenues, especially those derived from taxes, both central and local, have experienced a decline (Puspitasari, 2017).

The performance of local governments also indirectly affects the degree of dependence on the central government (Puspitasari, 2017). In Indonesia, the central government, along with provincial and district/city local governments, must make necessary adjustments due to the reduction in state and regional revenues. They must refocus their budgets from program/activity spending to expenditures aimed at mitigating and addressing the impact of Covid-19.

Electronic Government (E-Government) is an initiative aimed at developing electronic-based government services (Afifa & Priyono, 2022). The Indonesian government has been implementing E-Government since the issuance of Presidential Instruction (INPRES) Number 3 of 2003, which outlines the national policy and strategy for E-Government development. The directive requires all government agencies to adapt by utilizing information systems or technology to better serve the public. The central and local government websites are expected to gradually transition towards Government to Government (G2G), Government to Business (G2B), and Government to Citizen (G2C) interactions, which are integrated with each other (Indonesia, 2003).

In 2018, the regulations pertaining to E-Government were strengthened with the issuance of Presidential Regulation (PERPRES) Number 95 of 2018, which focuses on Electronic-Based Government Systems (SPBE). The SPBE emphasizes the adoption of effective, integrated, sustainable, efficient, accountable, interoperable, and secure applications by both central and regional government agencies (Setneg, 2018).

Research conducted by Heeks (2003) on egovernment projects in developing countries revealed that almost 35% of projects were total failures, while 50% were partial failures. Several studies have concluded that the acceptance, diffusion, and success of e-government initiatives rely on citizens' willingness to utilize these services (Carter & Bélanger, 2005; Evans & Yen, 2006; Schaupp & Carter, 2005; Shareef, Kumar,

Kumar, & Dwivedi, 2011; Shareef, Kumar, Kumar, & Hasin, 2009). Consequently, there is a significant need for research and development of service quality models to explain the advantages of e-services to citizens. Another critical perspective in service quality research is ensuring a return on investment (Wang, Bretschneider, & Gant, 2005). The taxes paid by citizens to the government are invested in the construction and maintenance of egovernment systems (Wang et al., 2005). Therefore, the government should be accountable to citizens regarding the quality of services offered by the new system. Although the dimensions of service quality may vary depending on the political environment, technological advancements, and socioeconomic conditions of a country, the primary objective of this study is to provide transparent and effective services to citizens.

E-Government Quality (E-GovQual) is a method used to measure the quality of electronicbased information systems in providing services to citizens, as introduced by Papadomichelaki & Mentzas (2012). The EGovQual instrument was developed by measuring the quality of services provided by E-Government services from the perspective of end users or the public. E-GovQual comprises six dimensions: ease of use, trust, functionality of the interaction environment, reliability, content and appearance of information, and citizen support.

Customer satisfaction is a crucial marketing goal. According to Kotler & Keller (2012), the purpose of marketing is to "meet and satisfy the needs and desires of target consumers and be better than its competitors." Although there is no standard definition of customer satisfaction, experts have attempted to define it. One way to measure customer satisfaction is through the survey method (Kotler & Keller, 2012). This involves gathering feedback on statements related to customers' likelihood of making repeat purchases, their tendency to share positive experiences with others, and their inclination to file complaints with the company. Satisfied customers are more likely to repurchase products and spread positive word-of-mouth, while dissatisfied customers tend to return or discard products and complain to the company.

The satisfaction indicators in this study align with Kotler & Keller (2012) definition, namely customers making repeat purchases, customers sharing positive experiences about the products they buy with others, and customers refraining from or minimizing complaints to the company.

As mentioned earlier, service quality can directly or indirectly impact customer satisfaction

and loyalty. This has been substantiated by research conducted on online-based service quality in various industries, including banking. The dimensions of technology-based service quality, such as easy and reliable technology support (eservice quality), have a positive influence on customer satisfaction and loyalty (Ganguli & Roy, 2011). Positive customer perceptions of service quality contribute to customer satisfaction and loyalty, thereby influencing their continued use of a product or service (Lupiyoadi, 2013).

To differentiate e-service quality from traditional service quality, it is necessary to first examine the latter, as most e-service quality models are developed based on traditional models. SERVQUAL, developed by Parasuraman et al. (1985), serves as a generic instrument to measure service quality across various sectors. Initially, SERVQUAL was designed for four industries: retail banking, credit cards, securities institutions, and banking services (Parasuraman et al., 1985). SERVQUAL consists of five dimensions: tangibles (physical appearance), reliability, responsiveness, assurance, and empathy. While SERVOUAL has been widely employed to measure service quality in various service industries, some studies have applied the SERVQUAL model to assess e-service quality. However, the applicability of the SERVQUAL model in the context of e-service quality is limited (Parasuraman et al., 1985). The SERVOUAL dimensions generic require reformulation to be meaningfully applied in the realm of e-service quality, as e-service differs from traditional service in three key aspects:

1. Absence of sales staff: In e-service, there is no physical interaction between customers and sales staff, unlike in traditional service.

2. Lack of tangible (physical) elements: E-service operates in a virtual, intangible environment.

3. Customer independence: In e-service, customers handle their own business processes, such as placing orders or transactions (self-service).

Although e-service significantly changes the structure of traditional services, as noted by Alzola & Robaina (2005), the importance of eservice quality as a critical success factor for ecommerce businesses cannot be understated. In addition to the business sector, the issue of eservice quality also applies to other sectors, including the government, especially in improving E-Government services to the public (Parasuraman et al., 1985).

Given these differences between e-service and traditional service, it can be concluded that the SERVQUAL scale is not suitable for measuring eservice quality. Consequently, the E-Government Quality (E-GovQual) method, introduced by Papadomichelaki & Mentzas (2012), becomes essential for measuring the quality of E-Government services from the perspective of end users or the public. E-GovQual encompasses six dimensions: ease of use, trust, functionality of the interaction environment, reliability, content and appearance of information, and citizen support.

E-government quality (e-govqual) refers to the quality of electronic government services provided to citizens. The impact of e-govqual on user satisfaction with e-government services provided by local governments has been studied in various countries, including Saudi Arabia (Bawazir, 2006; Yamin & Mattar, 2016). The quality of e-government services can be influenced by various factors, such as government policies, internet and information technology, and service providers (Yamin & Mattar, 2016). The success of e-government services can also depend on the enactment of government policies in the provision and deployment of such technology (Yamin & Mattar, 2016). Therefore, it is important for service providers to continuously assess their roles, challenges, and the level of service satisfaction towards citizens, and update their technologies to improve services (Yamin & Mattar, 2016).

Priya (2012) found that most users are satisfied with the services provided by esatisfaction government, but this is not significantly related to personal attitudes and usability factors. Another study (Pinem. Immanuella, Hidayanto, & Phusavat, 2018) discovered that the factors determining user trust in government online services include service quality, trust in government entities, recommendations to use these services, and user habits in utilizing these services. The factor that does not influence user trust in government online services is the disposition to trust. Trust, however, does have an impact on continued use through perceived benefits and satisfaction in using online services. Therefore, it can be concluded that e-govqual, as a service quality factor, can indeed affect user satisfaction with e-government services provided by local governments. Nevertheless, further research is needed to specifically examine the relationship between e-govqual and user satisfaction.

These research gaps, based on the background, encompass the absence of in-depth research on the impact of the Covid-19 pandemic on local government performance in Indonesia, evaluation of E-Government implementation at the local government level, measurement of E-GovQual dimensions in the Indonesian context, and the relationship between E-Government service quality and user satisfaction at the local government level. This research fills a critical gap that will provide important insights for the development improvement and of local government services in the digital era.

The aim of this study is to analyze the quality of E-Government services using the E-GovQual approach in order to measure the quality of Local Government (Pemda) websites based on user satisfaction. The measurement involves online distributing questionnaires to 100 respondents who are members of the West Java Provincial Government and Regency/City Governments in West Java Province.



Figure 1. Framework of Thought

Based on Figure 1, this study proposes the following hypotheses:

1. The ease of use variable has a positive and significant effect on user satisfaction.

2. The trust variable has a positive and significant effect on user satisfaction.

3. The functionality of the interaction environment variable has a positive and significant effect on user satisfaction.

4. The reliability variable has a positive and significant effect on user satisfaction.

5. The content and appearance of information variable has a positive and significant effect on user satisfaction.

6. The citizen support variable has a positive and significant effect on user satisfaction.

RESEARCH METHODS

The population for this study was the Heads of the Regency/City Regional Work Units in the West Java Region. There were a total of 27 units of analysis, referred to as the Office of the Office, with a total of 100 individuals. The sample was a subset of the population. According to (Sugiyono, 2017), the sample represented a portion of the population with similar characteristics. In this study, a total sampling technique was employed, which involved sampling all members of the population. Therefore, in this study, the sample consisted of the entire population, as the total sampling technique was used.

No	Variable	Indicator
		Website Structure
	Ease of Use	Memorable URL
1.	(Papadomichelaki & Mentzas,	Customized search function
	2012)	Site map
		Ability to customize and personalize information
		Maintain confidentiality
2.		Access control
		Not sharing personal information with others
	Trust	Use of personal data
	(Papadomichelaki & Mentzas	
	(1 apadomienciaki če ivienizas, 2012)	Adequate response format
	2012)	Automatic calculation of forms
	Functionality Of	Presence of online help in the form
3.	The Interaction	Reuse of public information
	Environment	Internet access should be affordable for the general public
	(Papadomichelaki & Mentzas,	Ability to perform promised services accurately
	2012)	Timely delivery of services
		Speed of loading/transaction
4.	Reliability	Browser system compatibility
••	(Papadomichelaki & Mentzas,	
	2012)	Images should be in color graphics animation and web page
		size
	Content &	Accuracy and conciseness of data and information
	Appearance of	Information and issues are updated regularly
5.	Information	Information should be clear and understandable
	(Papadomichelaki & Mentzas,	Completeness of data and information
	2012)	All links should work
		Online forms are concise and easy to complete
	Support	Guidelines are user friendly
	(Papadomichelaki & Mentzas,	Problem solving
	2012)	Ouestions are answered adequately
		Employee knowledge and courtesy
		Employees who convey trust and confidence in the service
6.		Frequently asked questions
		Issues and news discussion platform

Tabel 1. Operational Variable

RESULTS AND DISCUSSION Respondent Profile

The following is a descriptive profile of the respondents of this study. From a total of 100 respondents it can be seen:

Table 2. Respondents' Descriptive Profiles			
Category	Description	Percentage	
	<20	0	
	21-30	15	
Age	31-40	65	
	41-50	8	
	>50	2	
Gender	Man	28	
	Woman	72	
	Courses Dresseed d	(2021)	

Source: Processed data (2021)

Test the validity and reliability of research variables

greater value of 0.3610. So it can be said that all statements are valid.

Based on table 3 it can be seen that all corrected item total correlation statements have a

Corrected Item-Total Correlation Sig. (2-tailed)			
Ease of Use	8		
KMP1	,714	,000	
KMP2	,803	,000	
KMP3	.813	,000	
KMP4	,651	,000	
KMP5	,691	,000	
Trust	·	,	
KPY1	,931	,000	
KPY2	,634	,000	
KPY3	,931	,000	
KPY4	,819	,000	
Form Functions and Interactions			
FIF1	,931	,000	
FIF2	,634	,000	
FIF3	,931	,000	
FIF4	,819	,000	
Reliability			
KDL1	,714	,000	
KDL2	,803	,000	
KDL3	,813	,000	
KDL4	,651	,000	
KDL5	,691	,000	
Contents and Information Display			
ITI1	,569	,000	
ITI2	,445	,000	
ITI3	,625	,000	
ITI4	,636	,000	
ITI5	,595	,000	
ITI6	,636	,000	
ITI7	,677	,000	
Supporters			
PND1	,569	,000	
PND2	,445	,000	
PND3	,625	,000	
PND4	,636	,000	
PND5	,595	,000	
PND6	,636	,000	
PND7	,677	,000	

Table 3. Validity Test

Source: Processed data (2021)

The reliability test is used to see the consistency of the variables used in the research. And the variable must have an alpha crobanch value > 0.6. It can be seen that all the variables

used are reliable and meet the requirements to proceed to the next stage.

value > 0.0. It can be seen that an the value	5					
Table 4. Reliability Test						
Variable	Cronbach Alpha	Information				
E-GovQual	0.919	Reliable				
Customer satisfaction	0.832	Reliable				
Source: Pro	Decessed data (2021)					
Descriptive Research Variables	relationship with	E-Government Quality (E-				
Based on the results of the questionnair	e GovQual). Respo	ondents answered as in the				

given to respondents with each indication of the following table:

Table 5. Ease of Use				
Variable	Indicator	Total score	Total	Average
Ease of Use	Website Structure	387	77%	77%
	URLs easy to remember	372	74%	
	Customized search function	373	75%	
	Sitemap	393	79%	
	Ability to customize and	394	79%	
	Personalize information			
	Source: Processed d	ata (2021)		

Respondents answering the Ease of Use variable can be shown in Table 5, an average of

77% of the percentage value of ease of use is classified in the "good" category.

Table 6. Trust					
Variable	Indicator	Total score	Total	Average	
Trust	Keeping secrecy	393	79%	78%	
	Access control	374	75%		
	Do not share personal information with others	393	79%		
	Use of personal data	394	79%		

Source: Processed data (2021)

Respondents answering the Trust variable can be shown in Table 6, an average of 78% of the percentage value of trust is classified in the "good" category.

Table 7. Form Functions and Interactions					
Variable	Indicator	Total score	Total	Average	
Form Functions and Interactions	Adequate response format	393	79%	78%	
	Automatic calculation of forms	374	75%		
	There is online help in forms	393	79%		
	Community information reuse	394	79%		
	Source: Processed data (2021)				

Respondents answering the variable Function and Form Interaction can be shown in Table 7, an average of 78% of the percentage value of form function and interaction is classified in the "good" category.

Table 8. Reliability					
Variable	Indicator	Total score	Total	Average	
Reliability	Internet access must be affordable	387	77%	77%	
	for the general public				
	Ability to perform the promised	372	74%		
	service accurately				
	Service delivery on time	373	75%		
	Speed in loading/transaction	393	79%		
	Browser system compatibility	394	79%		
	Source: Processed data	a (2021)			

Respondents answering the Ease of Use variable can be shown in Table 8, an average of

77% of the percentage value of ease of use is classified in the "good" category.

Variable	Indicator	l otal score	Total	Average
Contents and Information	Images must be in color, Graphics, Animation,	382	82%	77%
Display	and Web page size			
	Accuracy and conciseness of data and	387	78%	
	information			
	Information and issues are updated regularly	374	76%	
	Information must be clear and understandable	379	76%	
	Completeness of data and information	395	79%	
	All links should work	379	76%	
	Online forms are concise and easy to complete	390	78%	
	Source: Processed data (2021)			

Table 9. Contents and Information Display

Variable Content and Display of Information Respondents answered that the content and display of information can be shown in Table 9, the average percentage of which is 77% is in the "good" category.

Table 10. Support					
Variable	Indicator	Total score	Total	Average	
Supporters	User friendly guide	382	82%	77%	
	Solution to problem	387	78%		
	Questions answered adequately	374	76%		
	Knowledge and courtesy of employees	379	76%		
	Employees who convey trust and confidence in the service	395	79%		
	Frequently asked questions	379	76%		
	platforms discussion of issues and news	390	78%		
	Source: Processed data (2021)				

Supporting Variable Respondents average percentage of 77% is in the "good" category.

Partial Least Square (SEM)



Figure 2. Partial Least Square (SEM)

Indicator Reliability

Indicator Reliability used to test the consistency of the indicators used in the study.

Have a minimum requirement of 0.4. can be seen all the variables used to qualify to proceed to the next stage.

Table 11. Indicator Reliability							
Variables	Variables Indicators Reliability						
Ease of Use	KMP1	0.775					
	KMP2	0.718					
	KMP3	0.827					
	KMP4	0.840					
	KMP5	0.687					
Trust	KPY1	0.788					
	KPY2	0.926					
	KPY3	0.668					
	KPY4	0.851					
Form Functions and Interactions	FIF1	0.788					
	FIF2	0.926					
	FIF3	0.668					
	FIF4	0.851					
Reliability	KDL1	0.775					
	KDL2	0.718					
	KDL3	0.827					
	KDL4	0.840					
	KDL5	0.687					
Contents and Information	ITI1	0.734					
Display	ITI2	0.732					
	ITI3	0.784					
	ITI4	0.868					
	ITI5	0.841					
	ITI6	0.639					
	ITI7	0.614					
Supporters	PND1	0.734					
	PND2	0.732					
	PND3	0.784					
	PND4	0.868					
	PND5	0.841					
	PND6	0.639					
	PND7	0.614					

Source: Processed data (2021)

Internal Consistency Reliability

Internal Consistency Reliability is used to measure the consistency of the variables used in the study and has provided a composite reliability above 0.6. It can be seen that all variables meet the requirements, so that the research can proceed to the next stage.

Table 12. Internal Reliability				
Variables	Composite Reliability	Description		
Ease of Use	0.880	reliable		
Trust	0.854	reliable		
Form Functions and Interactions	0.854	reliable		
Reliability	0.880	reliable		
Contents and Information Display	0.899	reliable		
Supporters	0.899	reliable		

Source: Processed data (2021)

Convergent Validity

Convergent Validity is used to measure the accuracy of the variables used in the study, having

the required AVE value above 0.5. It can be seen that all the variables used are valid and can be continued to the next stage.

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Table 13. Convergent validity				
Variables	AVE	Description		
Ease of Use	0.596	Valid		
Trust	0.662	Valid		
Form Functions and Interactions	0.662	Valid		
Reliability	0.596	Valid		
Contents and Information Display	0.562	Valid		
Supporters	0.562	Valid		
Source: Processed data (2021)				

Rated R-Square and Q-Square

It can be seen that the percentage of influence of Ease of Use, Trust, Form Function and Interaction,

Reliability, Information Content and Display, and Support on User Satisfaction is 94.4%.

Table 14. R-square				
Variables	R–square			
User Satisfaction	0.944			
Ease of Use	-			
Trust	-			
Form Functions and Interactions	-			
Reliability	-			
Contents and Information Display	-			
Supporters	-			

Source: Processed data (2021)

Values Q2 = 1 - (1 - 0.944) = 1-0.056 = 0.944

The Q-Square value is used to see the PLS model used in the study. It can be seen that the goodness of fit of the model used is 94.4%. It can be concluded that the model used is very good.

Hypothesis test

Rule of thumbs that support the research hypothesis are: (1) if the coefficient or direction of the variable relationship (indicated by the value of the original sample) is in accordance with the hypothesis, and (2) if the t-value statistic is more than 1.64 (two-tiled) or 1.96 (one-tiled) and the probability value (p-value) is less than 0.05 or 5%.

Table 15. Hypothesis Testing Results				
Variables	Path Coefficient	Description		
Ease of Use -> User Satisfaction	0.317	accepted		
Trust -> User Satisfaction	0.000	accepted		
Form Functions and Interaction ->	0.000	accented		
User Satisfaction	0.000	acceptea		
Reliability -> User Satisfaction	0.317	accepted		
Content and Information Display -	0 / 93	accented		
> User Satisfaction	0.775	uccepieu		
Support -> User Satisfaction	0.493	accepted		
$\mathbf{S}_{\text{output}}$ $\mathbf{D}_{\text{output}}$ $\mathbf{D}_{\text{output}}$ $\mathbf{D}_{\text{output}}$ $\mathbf{D}_{\text{output}}$				

Source : Data Processed (2019)

 R^2 (R square) equals 0.944 with an Adjusted R square of 0.939 or 93.90%, meaning that the influence of other variables besides Ease of Use, Trust, Form Function and Interaction, Reliability, Content and Information Display, and Support is 0.61.

The results of this study confirm the findings of the conceptual model research conducted by (Papadomichelaki & Mentzas, 2012).

The objective of this study was to identify the factors that influence user satisfaction with E-Government Quality. All three factors examined in this study were found to have a significant impact on user satisfaction with E-Government Quality. The model used in the study demonstrated a high level of explanatory power, reaching 94.4%. This indicates that the three factors play a substantial role in explaining local government eGovQual.

ISSN Cetak : 2337-3997 ISSN Online : 2613-9774

These findings contribute significantly to the improvement of local government E-Government Quality measurement. The results can serve as a guide for other local governments in their efforts to enhance user satisfaction through eGovQual measurement.

One limitation of this study lies in the E-Government Quality variable, which was measured quantitatively and objectively. Future research could incorporate qualitative and subjective measurements, such as using LAKIP scores or assessing the quality of local government performance measurement reports.

Another limitation is related to the study's which population. was limited to local governments in the West Java province. To obtain more generalizable results, it is recommended to expand the population to include other regions. Moreover, considering the contextual factors, including the ongoing Covid-19 pandemic since early 2020, might yield different results. Including variables based on contingency theory, agency theory, and dynamic capability theory could provide a more comprehensive understanding of the influencing factors and outcomes.

Furthermore, the practical implications of this study highlight the importance of the factors of ease of use, trust, form function and interaction, reliability, information content and display, and support for improving local government E-Government Quality in Indonesia. Empirically, this research demonstrates that without these six factors, it will be challenging to enhance local government E-Government Quality.

CONCLUSION

The measurement of local government eGovOual in Indonesia requires further improvement. Based on behavioral theory, this study confirms that local government E-Government Quality in the West Java province is influenced by ease of use, trust, form function and interaction, reliability, information content and display, and support. These six factors significantly impact the quality of local government performance measurement. Therefore, to enhance the quality of performance measurement (via LAKIP), local governments should enhance the technical knowledge of their personnel, ensure strong and genuine leadership commitment, and provide adequate resource support, including human, financial, and time resources.

Future research should aim for broader generalizability by expanding the geographical scope of the study. Additionally, combining subjective and objective measurement scales using LAKIP scores or eGovQual measurement results can provide a more comprehensive assessment. Furthermore, the development of the variables examined can be expanded by incorporating other theories such as contingency theory, agency theory, and dynamic capabilities. This will contribute to a more comprehensive understanding of the subject matter in terms of content and context.

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