Service Quality Assessment using Servqual and Kano Models

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ABSTRACT

This study aims to assess the quality of services by integrating Servqual and the Kano model. In this study, Servqual is used to determine the quality criteria that must be improved. At this method, the quality criteria are based on the gap between customer perceptions and expectations for the services they receive. Meanwhile, the Kano method is used to categorize service attributes that satisfy customer needs. Servoual integration and the Kano model were carried out by synchronizing the Servqual gap value and the Kano model grade. Assessment of service attributes obtained from both methods produces service attributes that will focus on management's improvement to improve service quality. The results showed that the attribute criteria that must be prioritized were attributes that included attractive and one-dimensional categories, which had weak types at Servqual. Improvements in attributes in attractive and onedimensional categories will improve service quality and increase customer satisfaction.

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1. Introduction

Excellent service quality is based not only on the service provider's perspective but also on service users' perceptions. The service user perception of service quality is a comprehensive assessment of a service [1]. Factors that influence service users' perception include service encounters, evidence of service, company image, and service price. Customer satisfaction is the most crucial factor for the company [2]. Intense competition between companies requires companies to continue to improve their services. Therefore, an analytical model is needed to identify customer needs and assess customer satisfaction. Customer need is the key to service quality and a significant factor in business strategy. Quality of service that can satisfy customers is proven to increase profitability to be a competitive advantage tool. Excellent service quality can create repeat purchases, positive word of mouth, customer loyalty, and competitive service differentiation [3, 4].

Measuring customer satisfaction in this competitive business environment is a must. Organizations that want to meet customers' expectations should use this marketing tool properly [5]. Parasuraman, et al. [6] proposed the gaps model of service quality (Servqual) to represent the differences between customers' expectations and actual



perceptions to know whether or not customer satisfaction. Measurement of service quality using Servqual has been done in a variety of service industries [7], including the healthcare sector [8-10], banking [11], transportation [12, 13], tourism [14], retailing [15], information systems [16] and library services [17].

Kano classified the service quality attributes according to their effects on customer satisfaction [18-20]. According to this model, attributes impact customer satisfaction in five different categories [21-23]. Such an approach provides the primary guide for companies' strategic and tactical decisions to achieve customer satisfaction. Some research uses the kano model to classified the service quality attributes and customer needs in various service industries [21, 23-28]. However, the ability to measure service quality only constitutes the first step in achieving customer satisfaction. The Kano model [20, 29, 30] identifies the non-linear relationship between attribute performance and customer satisfaction. This research aims to assess the quality of services by integrating Servqual and the Kano model. The integration of Servqual and the Kano model to obtain an appropriate action strategy allows service industry managers to improve service quality and achieve a competitive advantage.

2. Methods

2.1 Proposed Method

In this research, the value gap from Servqual is conducted to the Kano model. The Servqual kano integration model was adopted from previous studies [31]. However, previous studies it does not consider the kano model's satisfaction level. This research combined the previous model and developed Simultaneous Importance-Performance Analysis (SIPA) and the Kano model [32]. The conceptual model of the integration of the Servqual-kano model in Fig. 1.



Fig. 1. Conceptual of Servqual Kano Integration Model

The Servqual methodology, introduced and refined by Parasuraman, et al. [33], represents the most widely applied methodology to measure customers' perceived quality across the service industry, for a review of 20 years of Servqual approaches [7]. Although the Servqual dimension has been empirically tested in many studies, the Servqual dimension is not a pursuit to measure in a retail store environment [34]. Measurement of retail service quality includes five variables: physical aspects, reliability, personal interaction, problem-solving, and policy [35]. Service attributes used are based on several retail store studies [34, 36, 37] and adjust to the research object's conditions (Table 1).

The questionnaire used in this study consisted of three parts. The first part used a 5-point Likert-type scale (from "very disappointed" to "very satisfied") to assess how the perception of customers considered each of the 20 service attributes. The second part used a 5-point Likert-type scale (from "very disappointed" to "very satisfied") to assess how satisfied customers were with the service of the retail store in each of the 20 service attributes. The gap between perceived (P) and expected (E) quality is calculated for each item [15]. The gap between the perceived and expected value of service quality allows assessing the qualitative difference between the customer's image and representing an "ideal" service. The research conducted a pretest of the questionnaire before the formal questionnaire survey to enhance the questionnaire's reliability and validity.

	Service attributes				
Physical	The store has modern-looking equipment and fixtures				
Aspects	The retail store is neat and clean				
	Material associated with the store's service is visually appealing.				
	The store layout at this store makes it easy for customers to find what they need				
Reliability	The product is looking for is available				
	The store performs the service right the first time				
	The store insists on error-free sales transactions and records.				
	Guarantee of products				
Personal	Employees in this store are consistently courteous with customers.				
Interaction	The store offers friendly and polite service				
	Customers feel safe in their transactions with this store				
	Employees at the store have the knowledge to answer customers' questions				
Problem Solving	Employees of this store can handle customer complaints directly and immediately				
	The store gives accurate information related to prices, discounts, product information				
	The store willingly handles returns and exchanges.				
Policy	The price of the products offered are affordable				
	Opening and closing hours on time				
	The store accepts various kind of payment (cash, debit, credit card)				
	The store offers high-quality products				
	The store provides plenty of convenient parking for its customers				

Table	1. S	Service	Attribute	in	Retail	Store
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The third part was used the Kano model and asked positive- and negativedimension questions for each of the 20 service attributes. The five possible responses were: I like it that way; it must be that way; I am neutral; I can live with it that way; I dislike it that way. The questions had each pair with their perspective responses, as shown in Table

2. The first question of each pair with the positive dimension questions (Customer's reactions if service provider fulfills the customer's need); the second was negative-dimension questions (the customer's responses if the service attribute was unfulfilled).

If the retail Store always neat and clean	1. I like it that way
How do you feel?	2. It must be that way
(Positive dimension question)	3. I am neutral
	4. I can live with it that way
	5. I dislike it that way
If the retail store not always neat and	1. I like it that way
clean, How do you feel?	2. It must be that way
(Negative dimension question)	3. I am neutral
	4. I can live with it that way
	5. I dislike it that way

Table 2. Functional and Dysfunctional	Questions in the Kano Questionnaire
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		Dysfunctional question							
		1) I like it	2) I must	3) I am	4) I can	5) I			
Customer Req	uirements	that way	be that	neutral	live with	dislike			
			way		it that	it that			
					way	way			
	1) I like it that way	Q	А	А	А	0			
	2) I must be that way	R	Ι	Ι	Ι	Μ			
Functional	3) I am neutral	R	Ι	Ι	Ι	\mathbf{M}			
question	4) I can live with it that	R	R	Ι	Q	Μ			
	way								
	5) I dislike it that way	R	R	R	R	Q			
		36 36 1	T T 11.00		1 0 0				

Table 3. Kano Evaluation Table

Note A: Attractive, O: One-dimensional, M: Must-be, I: Indifferent, R: Reversal, Q: Questionable.

In this research, classify of service attribute of kano by cross-referencing answer to positive-and negative-dimension questions. The service attributes classify as either "Must-Be," "One-Dimensional," "Attractive," "Indifferent," "Reverse," or "Questionable." (**Table 3**). If a customer answered the positive-dimension question, "I like it that way," and replied, "I dislike it that way," to the negative dimension question. Hence, the service attribute classifies as "one-dimensional." The Kano evaluation table is shown in Table 1 [38]. Service attribute grouping by considering the number of categories each attribute gets. Determination of the Kano category with the following conditions: - If (O + A + M)> (I + R + Q) then the maximum grade of (O, A, M). - If (O + A + M) < (I + R + Q), then the grade of the most maximum of (I, R, Q). - If (O + A + M) = (I + R + Q) then the maximum grade among all categories. The consumer satisfaction coefficient can be found with the formula [38]:

Better (CS1) =
$$\frac{A+O}{A+O+M+I}$$
 (1)
Worse (CS2) = $-\frac{O+M}{A+O+M+I}$ (2)

Better also known as satisfaction level (CS1), the satisfaction level coefficient ranges from 0 to 1; the closer to the value 1, the more it affects customer satisfaction, and vice versa. 2. Worse are the level of dissatisfaction (CS2). If the deal gets closer to -1, the effect on consumer disappointment is getting stronger, and vice versa. The integration of



2.2 Data Collecting

This research was conducted by surveying 125 respondents who are customers of retail stores in Malang. Table 4 shows the respondents' characteristics, which offer information about gender, age, and purchase frequency.

3. Result and Discussions

Based on Table 4, Respondents who were male were 52%, and respondents who were female were 48%. Males tend to gather information through heuristic men and gather salient cues compared to women who believe in in-depth information search. Women are more subjective and intuitive. Males tend to be more analytical and logical who make their opinions based on other people's purchases rather than trying it themselves. Males tend to value quality and efficiency the most, while women value emotional connection and relations [39].

Furthermore, where males tend to make purchases based on immediate needs, women took at purchase as a long-term decision. The percentage of respondents based on gender has little difference, so it can be concluded that male respondents can be a measuring tool to measure the level of customer satisfaction with retail store services. Most of the respondents were less than 35 years old, almost 84% in terms of age. Buyers with an age of fewer than 35 years are more impulsive than those who are above them. Therefore, the strategy for improving the quality of retail store services can be based on potential consumers' needs according to age.

In the gap analysis (Table 5), positive differences between expectations and perceptions indicate strengths, whereas negative differences indicate service quality weaknesses [31]. In this context, data collected from 125 respondents were analyzed, and found that 12 service attributes were negative. Eight service attributes had a positive gap. The service attribute with the most significant gap value is "Employees of the store can handle customer complaints directly and immediately" Furthermore, the attribute that has the most significant positive gap is "Guarantee of products." The negative dimension value or the most significant gap occurs in the personal interaction and problem-solving dimension. These indicated that the customer thinks that the company has not paid attention to customers by providing good personal interaction and not solving customer problems. Excellent service quality leads to customer loyalty, as it increases customer confidence towards and satisfaction with the company. It is supposed that positive perceptions of service quality enhance customers' possibility of supporting the company and strengthening loyalty behavior [40].

Variable	Item	Respondent	Percentage
Condon	Male	65	52%
Gender	Female	60	48%
	$25 ext{ or below}$	57	46%
Age	26 - 35	48	38%
	36 Or above	20	16%
	1	7	6%
Purchase frequency	2-5	48	38%
	Six or above	70	56%

Table	4. Background	of respondents	demographic	characteristic
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Table	5.	Service	Quality	Gap
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Code	Service attributes	Perceived Quality	Expected Quality	GAP	Category
1	The store has modern-looking equipment and fixtures	3.76	4.11	-0.35	Weak
2	The retail store is neat and clean	4.1	4.03	0.07	Strong
3	The store layout at this store makes it easy for customers to move around	3.58	3.94	-0.36	Weak
4	The store layout at this store makes it easy for customers to find what they need	3.52	4.12	-0.6	Weak
5	The product you are looking for is available	4.22	4.21	0.01	Strong
6	The store performs the service right the first time.	4.02	4.26	-0.24	Weak
7	The store insists on error-free sales transactions and records.	4.1	4.28	-0.18	Weak
8	Guarantee of products	4.32	4.21	0.11	Strong
9	Employees in this store are consistently courteous with customers.	3.71	4.1	-0.39	Weak
10	The store offers friendly and polite service	3.56	4.01	-0.45	Weak
11	Customers feel safe in their transactions with this store	4.04	4.26	-0.22	Weak
12	Employees at the store have the knowledge to answer customers' questions.	3.75	4.24	-0.49	Weak
13	Employees of the store can handle customer complaints directly and immediately	2.52	4.1	-1.58	Weak
14	The store willingly handles returns and exchanges.	3.72	4.35	-0.63	Weak
15	The store gives accurate information related to prices, discounts, product information	3.55	3.9	-0.35	Weak
16	The price of the products offered are affordable	3.9	3.84	0.06	Strong
17	Opening and closing hours on time	4.1	3.85	0.25	Strong
18	The store accepts various kind of payment (cash, debit, credit card)	4.01	3.94	0.07	Strong
19	The store offers high-quality products.	4.31	4.22	0.09	Strong
20	The store provides plenty of convenient parking for its customers	3.95	3.94	0.01	Strong

This study identified and classified the service attributed in retail stores using the Kano model and searched for service attributes that could significantly increase customer satisfaction and decrease customer dissatisfaction according to the calculated CS coefficients [41]. The results of the questionnaires administered to the retail store, shown in Table 6. Five attributes were classified as "Must Be" (this category has to be provided

to customers, and its presence does not have a significantly positive impact on customer satisfaction). One Dimensional also has five attributes: this service element is positively and linearly correlated to customer satisfaction [24]. The other ten attributes, including "The price of the products offered are affordable", "The store accepts various kinds of payment (cash, debit, credit card)" and so forth, were classified as "Attractive." (These attributes are crucial to customer satisfaction).

Service Attribute	А	М	0	R	Q	Ι	Category	CS1	CS2
1	30	24	22	21	18	10	А	0.60	-0,53
2	49	15	13	25	13	10	А	0.71	-0,32
3	41	18	23	18	20	5	А	0.74	-0,47
4	27	21	29	16	23	9	0	0.65	-0,58
5	38	16	14	26	27	4	А	0.72	-0,42
6	21	34	21	10	19	20	Μ	0.44	-0,57
7	37	19	27	19	13	10	А	0.69	-0,49
8	39	24	25	18	14	5	А	0.69	-0,53
9	24	38	21	16	18	8	М	0.49	-0,65
10	33	26	35	14	11	6	0	0.68	-0,61
11	30	21	34	23	5	12	0	0.66	-0,57
12	31	16	37	22	7	12	0	0.71	-0,55
13	14	15	60	14	4	18	0	0.69	-0,70
14	36	43	25	10	1	10	Μ	0.54	-0,60
15	37	16	34	10	19	19	А	0.67	-0,47
16	33	37	20	11	21	3	М	0.57	-0,61
17	38	27	16	23	11	10	А	0.59	-0,47
18	40	21	21	18	7	18	А	0.61	-0,42
19	26	36	28	14	4	17	М	0.50	-0,60
20	41	19	29	12	7	17	А	0.66	-0,45
Overall Means								0,63	-0,53

 Table 6. Kano Category and Customer Satisfaction Coefficient

Note CS1: the satisfaction level coefficient; CS2: the level of dissatisfaction coefficient

Those attributes located in the effective improving area were identified (Fig. 2). Based on the mapping results, found that personal interaction was in the effective improving area. The results of the integration of the SERVQUAL and kano models, as shown in Table 7. There are eight attributes included in the 'key improving attribute.' Attributes that fall into this category can increase customer satisfaction if seen from the negative gap, and the Kano category is attractive or dimensional. The attributes included in the "attractive" and "one-dimensional" category will lead to customer satisfaction when fulfilled and lead to customer dissatisfaction [38]. So, they are both a necessary and sufficient condition for customer satisfaction. Eight attributes fall into the maintenance category. Maintain decision is given to service attributes with strong or weak service quality (servqual) types and "Must be" category. The retail store must provide attributes included in the "Must be" because these attributes are the primary attributes of service quality in customer satisfaction [41].



Fig. 2. CS Coefficient Grids Of Retail Store

	Ta	ble 7. The	Result of Se	ervqual and K	ano Category
Code	SER	VQUAL	KA	NO	_
attributes	GAP	Weak or Strong	Category	Effecting Improving	Decision
1	-0.35	Weak	А		Maintain
2	0.07	Strong	А		Further develop for
					innovative process
3	-0.36	Weak	А		Key improving attribute
4	-0.6	Weak	0	Yes	Key improving attribute
5	0.01	Strong	А		Further develop for
					innovative process
6	-0.24	Weak	Μ		Maintain
7	-0.18	Weak	А		Key improving attribute
8	0.11	Strong	А		Further develop for
		0			innovative process
9	-0.39	Weak	Μ		Maintain
10	-0.45	Weak	0	Yes	Key improving attribute
11	-0.22	Weak	0	Yes	Key improving attribute
12	-0.49	Weak	0	Yes	Key improving attribute
13	-1.58	Weak	0	Yes	Key improving attribute
14	-0.63	Weak	М		Maintain
15	-0.35	Weak	А		Key improving attribute
16	0.06	Strong	М		Maintain
17	0.25	Strong	А		Further develop for
		U			innovative process
18	0.07	Strong	А		Further develop for
		_			innovative process
19	0.09	Strong	М		Maintain
20	0.01	Strong	А		Further develop for
					innovative process

Table	7.	The	Result	of	Servoual	and	Kano	Category
Lanc		THC	Incourt	υı	DUIVYYY	anu	IMALIO	Jailen

4. Conclusion

This study proposed a Servqual Kano integration model to assess the service quality of service providers. The research object is a retail store with five dimensions of service quality: physical aspects, reliability, personal interaction, problem-solving, and policy. The integration model of Servqual kano starts by calculating the value of the gap between perceptions and expectations. Negative gap values are included in the weak type because they cannot satisfy consumers. The kano category results and the mapping of customer satisfaction scores were combined to produce key improving attributes. The service attribute that must be prioritized were attributes that included attractive and onedimensional categories, which had weak types at Servqual. Personal interaction and problem-solving dimensions have to improve their performance and plan for improvement.

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