

Assessing the Impact of the Retail Service Quality and In-Store Logistics on Customer Satisfaction and Loyalty

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Abstract. Measuring the service quality in the traditional markets to be very interesting, especially linked to in-store logistics, satisfaction and loyalty of traditional markets customer. The aim of this paper is to analyze the influence of retail service quality and in-store logistics, towards both customer satisfaction and loyalty in Indonesian traditional market context. The model proposed is to study the relationship between retail service quality and in-store logistics, satisfaction, and commitment. This research has been conducted on 400 customers in 16 traditional markets in West Java, Indonesia. A procedure of structural equation modelling has been applied to evaluate the proposed of research model. The methodology used consists of two stages. The first step was to check the construct validity through Convergent Validity (CV), Average Variance Extracted (AVE), Construct Reliability (CR), and Discriminant Validity (DC). Secondly, a structural equation modelling. The results reveal that retail service quality have positively influenced loyalty, however, they show a non-significant effect on customer satisfaction. On the other hand, in-store logistics have positively influenced customer satisfaction, but not on customer loyalty. Furthermore, satisfaction also positively influences on loyalty.

Keywords: Retail Service Quality, In-Store Logistics, Satisfaction, Loyalty

1 Introduction

The measurement scale for retail has been developed based on the SERVPERF scale which consists of five dimensions (physical aspects, reliability, personal interaction, problem solving, and policy) with 28 items [1]. This measurement scale model has been extensively researched in the context of modern markets such as supermarkets [2]–[5], however research in the context of traditional markets still rarely done. Traders in traditional markets still consider the factor of price, product, and promotion as competitive advantage sources, but they ignore with the potential in creating value of customer through in-store logistics [6]. Overcoming some of the challenges of change in traditionally designed supply chains such as; information, infrastructure, processes, and culture, is very difficult [7]. Rapid changes in the retail industry today have made it more difficult to attract buyers' attention and handle the competition [8]. Meanwhile, research in retail logistics is still rarely done [9]–[11].

Some research has been carried out the relationship between customer satisfaction on the retail service performance, however, in terms of retail logistics performance factor and its effect on consumers is still infrequent [12]. To remain in a very competitive market, retailers need to improve their performances on supply chain operations [13]. In fact, customer experience will determine substantially their level of satisfaction [14]. These factors are empirically proven to explain the relationship with customer satisfaction [15], [16]. Likewise, customer loyalty is a significant factor for achieving the retail businesses success and increasing its market share. Customer loyalty does not only create customer recalling, but it also generates customers' suggestions about the stores to their colleagues [17]. Service quality effect the level of customer satisfaction [18], [19]. High-quality of service will produce the high of customer satisfaction level and increase loyalty [16], [20]. Customer satisfaction is a factor that strongly determines customer loyalty [21]. Meanwhile, in-store logistics also plays a central role in satisfaction and loyalty [6]. Therefore, the purpose of this paper is to measure the extent of the impact of retail service quality (RSQ) and in-store logistics on customer satisfaction and loyalty in the traditional markets context in Indonesia.

2 Literature Review

2.1 Retail Service Quality (RSQ)

The concept of service quality has been pursued, including that it is a linkage of overall service excellence with attitude assessment [18]. Nevertheless, the general parameters used to evaluate service quality may not be appropriate in the context of the retail industry [22], [23]. Therefore, empirically, the development and validation of the RSQ scale have been carried out and include physical aspects, reliability, personal interaction, problem-solving, and policy [1]. The RSQ has been implemented in measuring the quality of delivery services at department stores [17]. Validation of the RSQS implementation has been carried out in retail businesses in Korea and the USA [24], and in traditional markets in Indonesia [25].

The RSQ consist of; physical aspects (store appearance and layout), reliability (keeping their promises and do the right things), personal interaction (polite, helpful, and stimulate confidence), problem-solving (capability of personnel in handling returns and exchanges, problems and complaint of customer), policies (quality merchandise, credit/debit cards, operating hours, and parking) [1]. However, the retail service quality measurement model in the traditional markets context uses four dimensions (physical aspects, personal interactions, promises, and problem solving) [25]. Other studies have shown that three dimensions (physical aspects, reliability and problem solving) have a significant positive effect on service quality [25]. However, the personal interaction dimension shows a significant negative effect, while the policy dimension does not have a significant effect on service quality [26].

2.2 In-Store Logistics

In-store logistics are strongly perceived in all efficient and disciplined logistics management operations at the point of sale [27]. Therefore, the in-store logistics performance will create the value for the store by influencing prospective customers to produce more value [6]. In-store logistics is focused on all flow processes in store-based retail outlets. Outlets are locations of transactions/exchanges for trading products, of course, payments also occur. Therefore, in the retail business, the activity that plays a big role is product availability,

because if the product is not available, there will be no purchase transaction [28]. In-store logistics operations consist of handling, managing, ordering, and processing merchandise in the store [29]. The operation of in-store logistics is really essential in influencing the customer experience. Convenience factor in retail stores surface from customers experience when getting into and leaving a computer memory, as well as naming and accessing the product promptly and easily. Store layout design is significant in parliamentary procedure to make customers move easily inside stores [30]. Effective stock-outs and shelf management are the first experience for customers and is called the "first moment of truth" [6], [31].

The information displayed in the stores influences a customer's impression of retail service. Therefore, providing the right information, customers can make better purchasing decisions [32], [33], allowing them to obtain higher value. Customers recognize that the store usually provides information and know how the store handles complaints. The convenience of shopping is an important aspect, and the shopping experience facilities can have inappropriate influence on customers' perceptions of the store [34]. Completeness of shopping aids, such as; adequate packaging / wrapping and shopping baskets and additional lines and waiting times related to customers leaving the store, become experiences for the customers [35]. Customers also care about returns [1], the product they bought that returned to retailers [36].

2.3 Customer Satisfaction and Loyalty

Satisfaction refers to consumers' responses to product offers and the gap between perceived and expected performance of a product [37]. Explicitly, service satisfaction generates from special service experience [38], [39]. Satisfaction generates from various factors of the quality and value that perceived by customers, as naturally is the element of human character, and customers will compare their experiences with other experiences of the service in another place to come up with much better future decision [6]. Satisfaction inclines to produce from overall evaluations of various aspects that shape relationships of customer and are not solely the result of certain transactions with providers [40].

Satisfaction and loyalty have a relationship by which loyal customers will always be satisfied as without such feeling they will not come again. Researchers argue that satisfaction is behind the reason of the customer retention in every retail store [41]. Loyalty determines both how much effort to provide the best service to customers and to maintain them [42]. Emotional attachment is also a factor to form customer loyalty to a particular store [6]. Loyalty is a factor that keeps a business operating as a form of guarantee of sales by several customers, so customer loyalty is the main sought-after factor to be transformed from their shopping experiences [41].

2.4 Research Model

Customer satisfaction increases if they get products on shelves easily, if in-store logistics work well, and if there is no long queue in the store [42]. The poor performance of in-store logistics comes from poor shelf management either when customers face out of stock or even when the inventory of products sufficient [6]. Thus, retail store customer satisfaction also comes from in-store logistics performance. The shopping convenience provided by the retail stores to customers will help save time wasted on every expenditure, and this condition is valued highly by the customers [43]. Thus, decisions taken by customers about purchasing and/or repurchasing products are establish an aspect known as the logistics service quality [44]. This condition demonstrates that the in-store logistics performance strongly impact on

the interactions between the retail stores and their customers, and as they received quality and price then a strong image will arouse in the customer's mind [6]. Therefore, the research model can be developed in Figure 1.

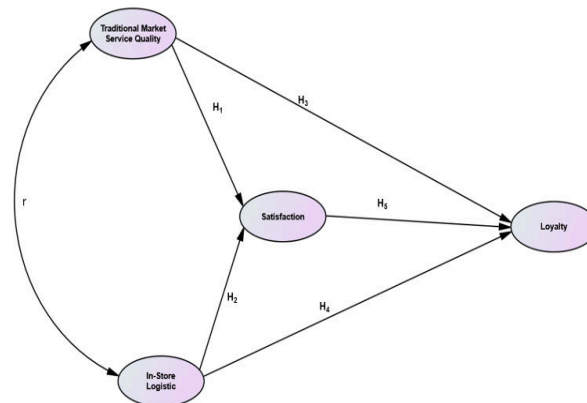


Fig. 1. Research Model

The following hypotheses are formulated to examines the relationships between the factors identified in this study.

- H.1: Traditional retail service quality has a positive effect on customer satisfaction significantly.
- H.2: Traditional retail service quality has a positive effect on customer loyalty significantly.
- H.3: In-store logistics of the traditional market has a positive effect on customer satisfaction significantly.
- H.4: In-store logistics of the traditional market has a significant effect on customer loyalty.
- H.5: Customer satisfaction of the traditional market has a significant effect on customer loyalty.

3 Methodology

The survey instrument was developed in four variables, namely; RSQ, in-store logistics, satisfaction, and loyalty. First, The retail service quality measurement scale uses five dimensions (physical aspects, reliability, personal interaction, problem solving, and policy) [1] Second, the scale of the in-store logistics refers to the scale adopted and modified to measure four dimensions, namely, stock, return, shopping aid, and product attributes [6]. Third, the customer satisfaction scale was adopted and modified from previous studies [16], [38]. Fourth, likewise for customer loyalty is adopted and modified from previous studies [16], [38].

The data were collected using a one-shot/cross-sectional time horizon because this research was only conducted once. The time which is one shot / cross-sectional means that the data or information collected is the result of research conducted within a certain period [45]. The sample size is 400 respondents who shop from 16 traditional marketplaces in West Java, Indonesia.

4 Result and Discussion

4.1 Measurement Model

The principle of the measurement model is to show how the manifest variables / observed variables represent the latent constructs to be measured. Construct validity indicates confidence when the indicator / sub-indicator measure taken from the sample represents the real score in the population. Construct validity is evaluated based on Convergent Validity, Average Variance Extracted, Construct Reliability, and Discriminant Validity.

The results of construct validity as shown in table 1 describe four types, namely, loading factor, average variance extracted (AVE), construct reliability (CR), and discriminant validity (DC). The loading factor shows the coefficient that explains the level of relationship between the indicator and the latent variable. Convergent validity is measured by loading factor values and it is a construct indicator that must be convergent or share the variance proportion. The standard output of the loading factors explain that all loading factors are above 0.5 (see Table 1). The standard loading estimate at least with 0.50 [46]. The loading factor at least 0.30 if the sample size 350 respondents [47]. This conclude that the loading factor is statistically significant, as it is higher than 0.50.

Table 1. Measurement Model

Dimensions / Sub-dimensions	Loading Factor	Average Variance Extracted	Construct Reliability	Discriminant Validity
Retail Service Quality				
Physical Aspect		0,583	0,901	0,764
PA4	0,859			
PA3	0,916			
PA2	0,600			
PA1	0,629			
Personal Interaction		0,762	0,923	0,873
PI4	0,890			
PI3	0,855			
Promises		0,835	0,975	0,914
PR4	0,911			
PR3	0,927			
PR2	0,935			
PR1	0,881			
Problem Solving		0,791	0,955	0,889
PS3	0,917			
PS2	0,918			
PS1	0,830			
In-Store Logistics				
Stock		0,742	0,915	0,862
SS2	0,867			
SS1	0,856			
Return		0,834	0,950	0,913
RT2	0,880			
RT1	0,945			
Shopping Aid		0,709	0,945	0,842
SC4	0,758			
SC3	0,750			
SC2	0,911			
SC1	0,933			
Product		0,675	0,876	0,822
PT2	0,929			
PT1	0,698			
Information		0,699	0,637	0,836
INF4	0,680			
INF1	0,967			
Satisfaction		0,776	0,975	0,881
SF6	0,865			
SF5	0,904			
SF4	0,844			
SF3	0,885			
SF2	0,885			
SF1	0,693			
Loyalty		0,795	0,972	0,892
LOY5	0,902			
LOY4	0,947			
LOY3	0,955			
LOY2	0,939			
LOY1	0,897			

In the confirmatory factor analysis, construct validity meets the AVE criteria > 0.50 [46], as the loading factor is higher than 0.70 which means this shows good convergence. The results tells that most AVE of retail service quality, in-store logistics, satisfaction, and loyalty are higher than 0.5 (see Table 1). The construct reliability coefficient must be more than 0.70 and the reliability is good., while the reliability of 0.6 - 0.7 is still acceptable [46]. The results of the construct reliability are shown in Table 1 which shows that all dimensions / sub-dimensions are above 0.7, while the value of the construct reliability for dimensions / sub-dimensions is below 0.7 (information 0.637), but still acceptable [46].

4.2 Structural Equation Model

The structural equation model integrates exogenous and endogenous latent variables or combines the relationship between exogenous variables and other endogenous variables.

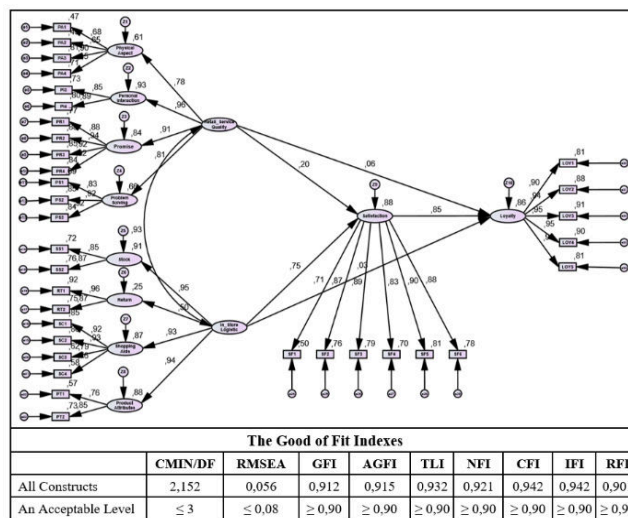


Fig. 2. Structure Equation Model

The structural equation model shows an excellent model (see Figure 2), with CMIN / DF results of 2.152, as well as, other Good of fit indexes have a value of more than 90% which indicate a very good model, as RMSEA value of 0.056 is below 0.

The study purpose was to analyze the effect of traditional retail service quality, in-store logistics, customer satisfaction and loyalty. Figure 2 and Table 2 shows that the influence of the variables (retail service quality, in-store logistics, customer satisfaction, and customer loyalty).

Table 4. Hypothesis Testing Result

Hypothesis	Stand (Est)	SE	CR	P-Value	Result
H ₁ Retail Service Quality → Customer Satisfaction	.075	.124	.610	.015	Rejected
H ₂ Retail Service Quality → Customer Loyalty	.264	.136	3.948	***	Accepted
H ₃ In-Store Logistics → Customer Satisfaction	.031	.143	.217	.828	Rejected
H ₄ In-Store Logistics → Customer Loyalty	.820	.115	7.140	***	Accepted
H ₅ Customer Satisfaction → Customer Loyalty	.865	.103	8.382	***	Accepted

Stand. Est (Standardized Estimated)

SEM outputs shown in Table 4, states that the first hypothesis, namely retail service quality of traditional market significantly impacts on the satisfaction of customer and shows

that the critical ratio (CR) of .610 for retail service quality association to customer satisfaction and the P-value (probability) of 0.051 is not significant by default. In other words, the regression weight for customer satisfaction is not significantly predicted by retail service quality. Therefore, it can be concluded that retail service quality has no significant effect on customer satisfaction. Thus, the findings of this study are different from research conducted by [1], [24], [48]. This condition is caused particularly by the condition of Indonesian traditional markets, which are perceived as muddy, smelly, cramped, and a lot of waste which causes customers to be dissatisfied with traditional market services.

However, in the second hypothesis, i.e. the quality of retail service in the traditional market significantly impacts on the customer loyalty and shows that the critical ratio (CR) is 3.948 for retail service quality associated with customer loyalty, and the P-value (probability) *** which means it is significant by default. In other words, the regression weight for customer loyalty is predicted by retail service quality significantly. These findings support the findings of [16], [20], [21], this condition occurs because customers still think that the completeness of the products sold in traditional markets is relatively complete, prices are relatively cheaper, products are fresher and the market opens from the morning. While the third hypothesis : The in-store logistics of the traditional market impacts significantly on the customer satisfaction and shows that the critical ratio (CR) is .217 for the in-store logistics association with customer loyalty, and the P-value (probability) .828 which means not significant. by default. In other words, the regression weight for customer satisfaction is not predicted by in-store logistics significantly. The level of customer satisfaction related to in-store logistics is still low, this is indicated by the aspects of convenience and shopping facilities in traditional markets, which are still perceived low by customers, while Van-Riel et al, [35] stated that the convenience and shopping facilities aspects can build customer perception of the shop. Improving the design, planning, and control of in-store logistics operations can therefore improve customer perceptions of the store, this condition supports the estimation. In-store logistics directly contributes 85% to image retention. This shows that the buyer's perception of the shop's image in traditional markets is very dependent on the quality of in-store logistics. This finding is also shown by the better implementation of traditional market in-store logistics related to stock, returns, shopping assistance, product attributes, and information that can improve traditional market customer satisfaction. Thus, the findings of this study are different from those of. [6] on research in supermarkets.

The fourth hypothesis, namely customer perceptions of in-store logistics performance is related directly and positively to customer loyalty, resulting the critical value (CR) 7,140 on the effect of customer satisfaction on customer loyalty, and also the P-value (probability) is significant***, with default. This means the regression weight for customer loyalty is predicted by in-store logistics significantly. It can be concluded that in-store logistics affects traditional market customer loyalty. Although traditional market customers are not satisfied with the performance of in-store logistics, on the contrary, traditional market customer loyalty shows the level of loyalty to traditional markets related to the performance of in-store logistics, this condition is because traditional markets can provide products that are still fresh, open from day to day, and interaction with traders is very close.

The final hypothesis is that the level of traditional market customer satisfaction is directly and positively related to customer loyalty. The result shows the critical value (CR) of 8,382 on the effect of customer satisfaction on customer loyalty, on the P-value (probability) significance with *** indicates significant by default. This means the regression weights for predicted customer loyalty. Thus, it can be concluded that traditional market consumer satisfaction in West Java, Indonesia directly gives 98% of consumer loyalty. This means that

traditional market buyers have loyalty. The results of this study prove that customer satisfaction has a direct and positive relationship with customer loyalty. This finding supports the previous research [6], [25].

5 Conclusions

This study combines two research domains, namely, retail logistics, and marketing services. This paper is intended to increase understanding of the role of logistics in ensuring product availability in stores, particularly in traditional markets in Indonesia. How to handle in-store logistics starting from product availability, ease of return systems, and tools available for shopping as well as information for customers about interactions with service scale can improve the development of in-store logistics strategies.

Increasing the competitiveness of traditional markets, needs to be supported by improving the traditional market service quality through guaranteed product availability in stores. In-store logistics also relate to the ease of finding a kiosk location in terms of providing the best location information, as well as changing the image of traditional markets, which associated with slums, stinking, and lots of garbage.

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