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The impact of trust and service quality on customer loyalty in ecommerce

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ABSTRACT

This study analyzes the effect of custumer trust and service quality on custumer loyalty through e-commerce custumer satisfaction. This research uses a survey method by distributing questionnaires distributed to Tokopedia, Shopee and Lazada constumers who make transactions in 2024. The object of this research is constumers of Tokopedia, Shopee and Lazada users in North Sumatra. The respondents of the study were taken by purposive sampling obtained 100 respondents. Data is processed using Smart PLS 3. The results of this study show that custumer satisfaction has a significant effect on custumer loyalty, satisfied custumers usually make repeat purchases. Custumers feel comfortable and trust in the company so they will do re-shopping. Satisfied custumers often recommend products to friends and relatives. Loyal custumers have high trust in the company. Custumers believe that the company will continue to provide good service. Custumer trust has no significant effect on custumer loyalty. Custumer trust does not have a significant effect on custumer satisfaction. Service quality does not have a significant effect on custumer loyalty. Product quality and delivery speed often have a greater impact on custumer loyalty compared to service quality. Custumers are more likely to be loyal to platforms that consistently provide quality products and fast delivery. Suggestions for researchers to add custumer behavior variables in digital environments.



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Introduction

The quality of service of an e-commerce company covers various aspects such as speed of delivery, ease of order process, quality of products that match the description, responsive custumer service, and easy return policies (Khan Mohammadi et al., 2023). When custumers receive quality service, they are more likely to feel satisfied with their shopping experience. Based on the online survey platform Jakpat special report involving 1,054 respondents from 25 provinces. It was recorded that during 2021 Tokopedia was listed as an e-commerce with custumer loyalty reaching 49%, ranked second to Shopee and third to Lazada. Center of Innivation and Digital Economy researchers assess the loyalty of Tokopedia users higher than its competitors, showing that this platform has more value than others. In 2020 Shopee became number one but now Tokopedia is able to compete. This is because Tokopedia is intensively conducting programs to attract custumers, one of which is free shipping in collaboration with Gojek. The strategy of providing free shipping is one of the effective ways used by Tokopedia to attract cusyumers. By partnering with Gojek, Tokopedia can take advantage of Gojek's extensive and fast delivery network. This allows for faster and efficient delivery of goods, increasing custumer satisfaction.

The two companies can run promotional campaigns together, increasing visibility and appeal to consumers using both platforms.

Custumer Lifetime Value Theory can be understood through the concept of term value, which is financial value that results from long-term relationships with custumers (Sun et al., 2023). This theory connects several key concepts that affect custumer loyalty (Valentini et al., 2024). The Custumer Lifetime Value Theory assumes that custumers who have a high level of trust in a brand or company are likely to make repeat purchases. High trust helps extend the custumer lifecycle because they are likely to remain loyal and not switch to competitors. Good service quality can improve custumer satisfaction and strengthen the long-term relationship between custumers and the company. Custumers who are satisfied with the quality of service tend to spend more, increasing the Custumer Lifetime Value Theory CLV. Satisfied custumers tend to leave positive reviews, recommend products or services to others, and remain loyal. This theory highlights the importance of maintaining a high level of satisfaction in order to increase the value of each custumer in the long run. In ecommerce, the interactions that occur online affect the custumer's perception of the brand. Custumer Lifetime Value Theory helps understand how online interactions, such as the quality of user experience, delivery speed, online custumer service, etc., will later have an impact on custumer retention and long-term value.

Custumer satisfaction is an emotional evaluation that occurs after a purchase, based on whether or not custumer expectations are met (Trihudiyatmanto, 2024). High custumer satisfaction often leads to custumer loyalty. Satisfied custumers tend to return more often to shop, recommend the e-commerce to others, and have a higher tolerance for small mistakes that may occur. Good service quality can directly increase custumer satisfaction Laia, 2022). The aspects of quality service make custumers feel that they are getting good value for the money they spend. Custumer satisfaction acts as a mediator between service quality and custumer loyalty. That is, although the quality of service can directly affect custumer loyalty, this effect is stronger when custumers are satisfied first. Custumer satisfaction strengthens the relationship between service quality and custumer loyalty (Varriale et al., 2023). Custumers who find fast delivery services and high-quality products more satisfied are more likely to return to shop and recommend e-commerce to their friends. Custumer trust is the custumer's belief that an e-commerce company will deliver the promised products and services with consistent quality and as expected (Maharani, 2010). This includes reliability, integrity, and transparency in transactions. When custumers have high trust in e-commerce companies, custumers will feel more comfortable and satisfied with their shopping experience.

Custumer satisfaction is measured based on how well custumer expectations are met by the services and products provided by the company. High custumer satisfaction usually results in greater custumer loyalty (Purnomo & Irmawati, 2024). Custumer loyalty is characterized by a tendency to make repeat purchases, recommend the company to others, and keep using the company's services despite other alternatives. Custumer trust in e-commerce companies plays an important role in creating satisfaction. When custumers believe that the company is reliable and honest, they are more likely to feel satisfied with their experience. Custumer who are satisfied with the services and products of an e-commerce company are more likely to become loyal custumers. They tend to make repeat purchases and recommend companies to others. Custumer satisfaction acts as a mediator in the relationship between custumer trust and custumer loyalty. That is, although trust can directly affect loyalty, this effect is amplified when custumer trust also results in high satisfaction (Mutammam et al., 2019). Custumer satisfaction strengthens the relationship between trust and custumer loyalty. In order to increase custumer loyalty, e-commerce companies need to build and maintain custumer trust. Strong trust will increase custumer satisfaction, which will ultimately encourage greater custumer loyalty.

Service quality is the degree to which the services provided by a company meet or exceed custu mer expectations(Ria Setyawati, 2023). It covers various aspects that can be measured and evaluated to determine how good the service the custumer is receiving(Handayani et al., 2020). Here are some of the main aspects of service quality, namely: 1) Reliability is the company's ability to provide the promised service consistently and accurately. This includes being punctual, error-free, and reliable whenever custumers interact with the company. 2) Responsiveness, namely the ability of company staff to help custumers and provide services quickly. This includes how quickly and efficiently the company responds to custumer requests, questions, or complaints. 3) Assurance is the knowledge and courtesy of employees and their ability to inspire trust and confidence. This includes aspects such as competence, credibility, security, and respect shown by the company. 4) Empathy is personalized attention given to custumers. This includes an understanding of the individual needs of custumers, as well as friendliness and care from company staff. 5) Physical Evidence (Tangibles): The physical appearance of facilities, equipment, personnel, and communication materials. This includes things like the cleanliness and comfort of the service premises, as well as the professional look of employees and promotional materials.

Custumer trust is the confidence or trust that custumers have in a company or brand, that the company will fulfill its promises and provide products or services that are in line with expectations (Mutammam et al., 2019). This trust covers several important aspects: 1) Reliability is the belief that the company will do what is promised consistently and on time. Custumers trust that the product or service they purchase will function as expected and as advertised.2) Integrity is the perception that the company is honest, ethical, and transparent in all its interactions. This includes aspects such as compliance with laws, transparency in pricing and policies, and protection of custumer privacy. 3) Competence is the belief that the company has the necessary ability and knowledge to provide high-quality products or services. It includes the company's technical expertise, staff skills, and experience in related industries. 4) Security: Custumers feel secure in their dealings with the company, both in terms of financial security (e.g., fraud protection) and the security of their personal data.5) Consistency is a consistent custumer experience over time reinforcing their trust. This means that every time a custumer interacts with a company, they get the same level of service and product quality.

Custumers who trust the company are more likely to become loyal custumers, who will continue to make repeat purchases and use the company's services(Purnomo & Irmawati, 2024). Custumers who trust the company tend to recommend it to friends, family, and coworkers, which can help attract new custumers. Trust reduces custumers' perception of risk associated with purchasing a product or service, which can increase their convenience and satisfaction. Trust is the basis for building long-term, mutually beneficial relationships between companies and custumers. To build and maintain custumer trust, companies should focus on several strategies such as providing products and services that meet or exceed custumer expectations consistently, responding to custumer inquiries and complaints quickly and effectively, providing clear and honest information about products, services, prices, and company policies, protecting custumers' personal and financial data with strong security measures. Conduct business in an ethical and responsible manner. Custumer trust is the foundation of a strong and sustainable relationship between a company and its custumers, which will ultimately support business growth and success.

Custumer satisfaction is a measure of the extent to which the products or services provided by a company meet or exceed custumer expectations(Handayani et al., 2020). This is an important indicator for business success because high custumer satisfaction can lead to custumer loyalty, a positive reputation, and increased revenue. There are several key elements that affect custumer satisfaction, namely: 1) The quality of a product must meet or exceed the quality standards expected by custumers.2) Responsiveness where custumers are prompt and responsive to custumer requests or complaints.3) Competitive prices that match the perceived value by custumers.4) Discounts and promotions where discount offers and promotions can increase value for custumers and their satisfaction. 5) Ease of use where a user-friendly website or application makes it easy for custumers to make purchases (Fujawati et al., 2024). Custumer loyalty is a condition in which custumers show a strong and consistent preference towards a brand, product compared to other competitors(Herman et al., 2024). Loyal custumers tend to make repeat purchases and have a tendency not to switch to another brand even though there are many other options on the market.

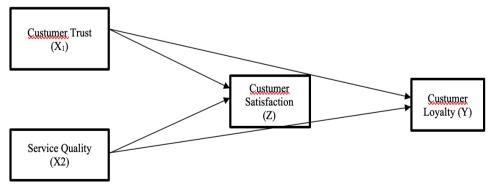


Figure 1. Conceptual Framework

Custumer loyalty in e-commerce is a condition where custumers choose to consistently make purchases from a particular e-commerce platform, even though there are many alternative options available. Custumer loyalty is very important because competition is very fierce and it is easy for custumers to move to other platforms. Important Aspects of Custumer Loyalty in E-commerce are: 1) Custumer Satisfaction where a positive shopping experience and satisfaction with a product or service greatly affect custumer loyalty. It covers aspects such as ease of website navigation, speed of delivery, and product quality. 2) Custumer trust in transaction security, privacy policy, and platform integrity is very important. Data security and transparency in the buying process can increase custumer trust.3) User Experience Easy-to-use, responsive, and fast applications can increase

custumer loyalty. A positive user experience makes custumers more likely to return. 4) Loyalty programs that offer incentives such as points, discounts, or rewards for repeat purchases can encourage custumers to remain loyal. 5) Personalization of the shopping experience, such as relevant product recommendations and communication tailored to custumer preferences, can increase custumer engagement and loyalty.

Method

This research is quantitative research using descriptive analysis (Erlina, 2023). The data collection technique uses purposive sampling techniques with questionnaire instruments distributed to shopee, lazada and tokopedia users in the community in North Sumatra. The number of samples in this study was 100 respondents. Data was collected from respondents using questionnaires with interval scales of 1-5 and distributed to respondents in 2024. This research data was processed with the help of SmartPLS 3.0 software.

Results and Discussions

This analysis is used to determine how much influence exogenous variables have on endogenous variables (Erlina, 2023). In this study, it will be analyzed how much influence variable X has on variable Y. Here are the results of PLS analysis with the help of SmartPLS 4.0 software.

Validity Test based on Outer Loading Value and Average Variance Extract (AVE)

In validity tests, outer loading and AVE are used to evaluate construct validity as measured by measurement variables (Erlina, 2011). A high outer loading value indicates that the measurement variable is significantly connected to the factor in question, while a high AVE value indicates that the measurement variable has sufficient validity in measuring the factor. In general, in validity tests using SEM, the outer loading value that is considered good is 0.5 or more, while the AVE value that is considered good is 0.5 or higher. However, these limitations may vary depending on the context of the study and the domain being researched. It is important to note that the use of these cut-off values should be used as a preliminary guide and should be linked to broader theoretical and contextual considerations in construct validity assessments.

	Cronbach's Alpha	Keandalan Komposit (rho_a)	Keandalan Komposit (rho_c)	Rata-rata Varian Diekstraksi
Custumer Loyality	0.849	0.855	0.898	0.688
Custumer Satisfaction	0.872	0.873	0.912	0.722
Custumer Trust	0.856	0.857	0.903	0.700
Service Quality	0.873	0.877	0.914	0.727

Table 1. Validity Test Results based on Outer Loading

Based on the table above, we can see the validity and reliability tests based on *Outer Loading, Average Variance Extracted* (AVE) and *Cronbach's Alpha* (CA) and *Composite Reliability* (CR). The results of validity testing based on *Average Variance Extracted* (AVE) values based on brand image variables, consumer satisfaction, service quality and customer loyalty. For validity testing with AVE, the recommended AVE value is 0.5. It is known that all AVE values are above 0.7. This means that it has met the validity requirements based on the AVE value.

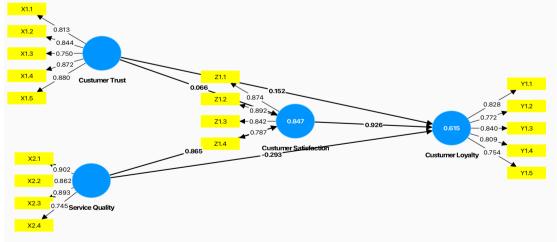


Figure 1. Validity Test Results based on Outer Loading

Path coefficient test

The path coefficient test in structural equation modeling (SEM) is used to test causal relationships between variables in the model. This test provides information about the significance and strength of the relationships between variables proposed in the model. The SEM model to be tested, including the variables to be included, the relationships between the proposed variables, and endogenous variables (variables influenced by other variables) and exogenous (variables affecting other variables).

Table 2. Hypothesis Testing of Direct Influence

	Real	Sample	Standard	Statistic	P
	Sample (O)	Average	Deviation	T	Value
Custumer Satisfaction - Custumer Loyality	0.926	0.923	0.160	5.807	0.000
Custumer Trust - Custumer Loyality	0.152	0.148	0.123	1.236	0.217
Custumer Trust - Custumer Satisfaction	0.066	0.065	0.086	0.770	0.441
Service Quality - Custumer Loyality	-0.293	-0.298	0.198	1.478	0.139
Service Quality - Custumer Satisfaction	0.865	0.861	0.084	10.287	0.000

Based on the table above, it can be seen that the custumer satisfaction variable has a significant effect on custumer loyalty, it can be seen from the path coefficient value of 0.926 with a t-statistical value of 5.807 > 1.98, P value of 0.000 < 0.05. Satisfied custumers tend to become loyal custumers. They will return to shop on the same platform if they feel they have a good experience. This loyalty is very important because the cost of acquiring new customers is usually higher compared to retaining existing customers. Satisfied custumers tend to recommend services or products to their friends, family, and colleagues. These word-of-mouth recommendations are very influential because people tend to trust the advice of people they know. In the world of e-commerce, positive reviews and ratings can also attract new custumers. Custumer satisfaction affects reputation and brand image. A good reputation will increase costumer trust in the company and make them more inclined to shop on the platform. In the digital world, negative reviews can quickly spread and damage a company's reputation. Custumer satisfaction can help reduce operational costs. Satisfied custumers tend to file fewer complaints and problems, thus reducing the burden on custumer service and other departments.

Custumer trust has no significant effect on custumer loyalty, it can be seen from the line coefficient value of -0.185 with a t-statistic value of 0.902 < 1.98, P value of 0.367 > 0.05. The platforms of each e-commerce company such as shoopee, lazada and tokopedia provide a wide range of products and services that are very similar to each other. Custumers easily switch to another platform if they find a more attractive offer, even if they already trust one particular platform. The majority of e-commerce customers are more influenced by price and promotions than the trust factor. Big discounts, special offers, and limited-time promotions are often the main deciding factors in their buying decisions(Li et al., 2023). Customer experience on e-commerce platforms can vary greatly depending on the individual seller. While customers may trust the platform as a whole, negative experiences with certain sellers can reduce their loyalty(Habib et al., 2023). Customers have many choices in the world of e-commerce.

They can easily search for other alternatives with a few clicks, making them less attached to one platform even if they believe in that platform(Agarwal & Dhingra, 2023a). On platforms like Shopee, Lazada, and Tokopedia, customers often deal with individual sellers. Trust in a platform does not necessarily mean trust in all sellers on that platform. Problems with one seller can reduce overall loyalty to the platform. E-commerce platforms often engage in price wars and aggressive promotions. Loyalty programs and attractive offers from competitor platforms can entice customers to try other services even if they already trust the platform they use. Customers have very high expectations for e-commerce services, including delivery speed, product quality, and customer support. Failure to meet these expectations, even if only once, can undermine customer loyalty. Customer trust has no significant effect on customer satisfaction, which can be proven by a line coefficient value of -0.029 with a t-statistic value of 0.377 < 1.98, a P value of 0.706 > 0.05. On the Lazada, Shopee and Tokopedia e-commerce platforms, customers deal with various sellers who have different service standards.

While they may trust the platform as a whole, their experience can vary greatly depending on the seller they choose, which affects overall satisfaction. Customer satisfaction is often influenced by technical aspects such as application reliability as well as logistical aspects such as delivery time and condition of goods upon receipt(Guiso, 2009). While customers may trust the platform, these technical and logistical issues can reduce their satisfaction. Customers may have high expectations for the online shopping experience, including deep discounts, high-quality products, and fast shipping(Maharani, 2010). When these expectations are not met, their satisfaction can decrease even if they trust the platform. Many e-commerce customers are attracted by attractive promotions and prices. Although they trust the platform, their satisfaction may be more influenced by how well they feel they are getting the best value for their money through promotions and discounts. Customer service

experience also affects satisfaction significantly(Purnomo & Irmawati, 2024). While customers may trust the platform, poor interaction with customer service can reduce their satisfaction. To increase customer satisfaction, e-commerce platforms need to pay attention to maintaining product quality standards and ensuring sellers comply with these standards. Provide responsive and helpful customer service. Improve technical aspects such as website speed and ease of navigation(Mutammam et al., 2019).

Service quality does not have a significant effect on customer loyalty can be proven by the line coefficient value of 0.024 with a t-statistic value of 0.612 < 1.98 P value of 0.541 > 0.05. On e-commerce companies lazada, shopee and tokopedia customers can easily move from one platform to another if they find more attractive offers. Loyalty to one platform becomes less strong even though the quality of service on that platform is high. Product quality and delivery speed often have a greater impact on customer loyalty compared to service quality(Maharani, 2010). Customers are more likely to be loyal to platforms that consistently provide quality products and fast delivery. In addition, a diverse and inconsistent user experience can reduce the impact of service quality on loyalty(Agarwal & Dhingra, 2023). Purchasing decisions in e-commerce are often influenced by customer reviews and recommendations from others. Good service quality may not be enough to build loyalty if reviews or recommendations from the community or friends are dominant. E-commerce customers may focus more on transaction aspects such as price, ease of transaction, and speed of delivery than service aspects. They are looking for an efficient and fast shopping experience(Damaiyanti et al., 2023). Service quality has a significant effect on customer satisfaction can be proven by the line coefficient value of 0.944 with a t-statistical value of 12.858 > 1.98 P value of 0.000 < 0.05.

A positive User Experience can create a positive user experience. When customers feel valued and well serviced, they tend to feel more satisfied with their overall shopping experience. Fast and efficient service, including quick response to questions or complaints, easy payment processing, and timely delivery, is highly appreciated by customers(Herman et al., 2024). This increases their satisfaction as their needs and expectations are well met. In addition, easy access to responsive customer support and quick solutions to customer-facing problems increases satisfaction. When customers feel that their problems are handled well, they tend to be more satisfied. Consistent and reliable quality service helps build trust and satisfaction(Handayani et al., 2020). Customers want to feel confident that every time they shop, they will have a good experience. Security guarantees in transactions and protection of personal data are very important in e-commerce. Quality of service that includes transaction security and trust in the platform increases customer satisfaction. Easy and fair policies regarding product returns and replacements are also an important part of quality service. This gives customers a sense of security that they can overcome problems if the product received is not as expected. Good service quality often gets positive reviews and good feedback from customers. This creates a positive image for the platform and increases the satisfaction of new customers who see these reviews before shopping.

Sampel Asli Т Nilai Rata-rata Standar Sampel Deviasi Statistik **(O)** P Custumer Trust - Custumer Satisfaction -0.062 0.064 0.084 0.734 0.463 **Custumer Loyality** Service Quality - Custumer Satisfaction -0.801 0.792 0.144 5.580 0.000 **Custumer Loyality**

Table 3. Testing the Indirect Influence Hypothesis

Service quality has a significant effect on customer satisfaction through customer loyalty can be proven by t-statistic values of 5,580 >1.98, P values of 0.000 < 0.05. Consumer experience such as speed of delivery, ease of site navigation, customer service responsiveness, and transaction security greatly affect the user experience. Satisfied customers are more likely to make repeat purchases. They feel comfortable and believe in the company, so they are likely to do some re-shopping. Satisfied customers often recommend products to friends and family, increasing their new customer base through personalized recommendations. Loyal customers usually have high trust in the company(Herman et al., 2024). They believe that the company will continue to provide good service. Loyal customers tend to be more tolerant of mistakes or problems that may occur because they have had previous positive experiences that support their commitment to the company. Customer loyalty is able to strengthen satisfaction because loyal customers tend to provide constructive feedback, helping companies improve the quality of service further, which in turn increases satisfaction even more. In competitive e-commerce companies, high service quality can be a strong differentiating factor. Companies known for high-quality service are more likely to attract and retain customers.

Custumer trust does not have a significant effect on custumer satisfaction through custumer loyalty can be proven by a t-statistic value of 0.734 < 1.98 P value of 0.463>0.05. This is due to the high level of competition in the highly competitive e-commerce industry, customers have many choices (Morgeson et al., 2023). While they

may believe in one company, they may be more influenced by other factors such as the best price quote or convenience in making a purchase. Loyalty can be more difficult to build and maintain in these situations. Customer satisfaction is often directly related to their experience of the product or service purchased. If the product or service received matches or exceeds expectations, customers will feel satisfied even though their loyalty has not been fully formed. Customer expectations can vary widely and are influenced by many factors other than trust. For example, if a customer has a good experience with other aspects of the service, such as fast delivery or an easy return policy, this could have more of an effect on their satisfaction than trust levels.

Conclusions

Based on the discussion above, it can be concluded: (1) Custumer satisfaction has a significant effect on custumer loyalty. (2) Custumer trust has no significant effect on custumer loyalty. (3) Customer trust does not have a significant effect on customer satisfaction. (4) Service quality does not have a significant effect on customer loyalty. (5) Service quality has a significant effect on customer satisfaction through customer loyalty. (7) Custumer trust does not have a significant effect on customer satisfaction through customer loyalty. Suggest that future researchers explore other factors that might affect customer loyalty in e-commerce, such as price, promotion, and product innovation. Propose comparisons between different e-commerce sectors to see if there are differences in the effect of customer trust and service quality on customer loyalty through customer satisfaction.

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