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Exploring the Perceived Ease of Use, Perceived Security Risk and Information Quality through Loyalty in the Indonesian Marketplace: Conceptual Framework



Afriliani Puspitasari¹, Radityo Handrito²

¹Undergraduate Student, University of Brawijaya

ABSTRACT: This research study aims to analyze the impact between perceived ease of use, perceived security risk and information quality towards loyalty in the Indonesian marketplace for young generation (Z). This research is a quantitative using explanatory research and the sample of respondents uses non-probability sampling of online shop consumers. This quantitative method uses descriptive and data analysis using Smart PLS software with Multivariate analysis-Structural Equation Model Partial Least Square Method (SEM-PLS). The respondents sought were consumers of Generation Z who live in Indonesia. In contrast, it can be inferred that further research is necessary to examine the concept of E-Trust among e-commerce marketplace users in Indonesia. There is significant impact as a catalyst for facilitating online transactions within the realm of e-commerce. Besides that, the primary objective of this research study is to assess the impact between perceived ease of use, perceived security risk and information quality on loyalty using e-trust. Of course, to know a person's level of e-trust, it is also important to know where the e-commerce user comes from.

KEYWORDS: Perceived ease of use, perceived security risk, information quality, loyalty, marketplace

I. INTRODUCTION

The advancement of technology contributes to improvements in the electronic commerce revolution. The significant impact of technological advancement on electronic commerce in Indonesia can be seen in various aspects, one of which is the emergence of e-commerce marketplace platforms and online shopping applications. E-commerce is a fast-expanding internet sector in Indonesia. According to the findings of the 2022 Central Statistics Agency E-Commerce Survey, that 90.18 percent of all reported business activity in 2020 involved the sale of goods or services online (Central Statistics Agency, 2020). However, E-commerce benefits include the convenience of online buying, time savings, and the simplicity of comparing various products (Davis et al., 2021).

E-commerce platforms such as Tokopedia, Shopee, and Lazada have revolutionized the way Indonesians shop, with more and more people choosing to buy products online rather than in physical stores (Sazali & Rozi, 2020). Changes in people's shopping habits from conventional to online have also changed the interaction of social life in Indonesia, and E-commerce shopping patterns have developed their own trends. This shift towards online shopping has created new business opportunities for entrepreneurs and has driven the growth of a dynamic e-commerce ecosystem in Indonesia (Banjarnahor & Dachyar, 2017).

The number of users of electronic commerce platforms followed the advancement. 49.8 percent of Indonesians already have electronic commerce on their smartphones. According to a report from the Singapore-based Institute of Southeast Asian Studies (2022), about 138 million Indonesians shop online—roughly one-half of the population. This number has increased by 3.3% (8.2 million) compared to 2022. Based on this number, Indonesia is recorded as a big potential market in Southeast Asia.

Ultimately, the potential of electronic commerce offers unprecedented opportunities to businesses, consumers, and the economy at large in terms of increasing productivity and the economy in Indonesia (Kinda, 2019), with the promising market potential contributing quite a large amount of GDP revenue within the sizable population of users. The e-commerce sector accounts for 72% of the total value of the digital economy. Indonesia's digital economy grew from US\$ 41 billion in 2019 to US\$ 77 billion in 2022, and electronic transactions surged by 67% in 2022 (HSBC, 2023) and are expected to become USD 83 billion in

²Lecturer, University of Brawijaya

2025, fueled by changing behavior among tech-savvy customers who are willing to spend more for convenience (International Trade Administration, 2022). But unfortunately, based on the katadata insight, the trend of visits to e-commerce sites in Indonesia declined in early 2023 (December 2022–February 2023). This happened to the five e-commerce sites with the largest visitors, namely Shopee, Tokopedia, Lazada, Blibli, and Bukalapak.

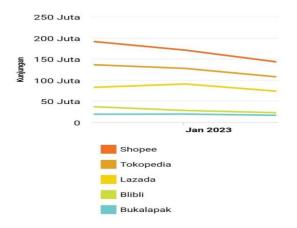


Figure 1.1 the five most visited marketplaces in January 2023

Source: katadata insight 2023

This occurrence transpired as a result of a significant portion of e-commerce consumers transitioning their purchase activities to TikTok shops. Based on a survey conducted by Cube Asia, it has been observed that consumers in Indonesia, Thailand, and the Philippines have exhibited reduced expenditure on Shopee (-51%), Lazada (-45%), and Offline (-38%) due to the emergence of TikTok Shop. According to data provided by Cube Asia, TikTok Shop generated a Gross Merchandise Value (GMV) of US\$ 2.5 billion during the first quarter of 2023, specifically inside the Indonesian market (CNBC, 2023).

As a consequence of the transition to the TikTok platform and the intense rivalry within the e-commerce sector, it is imperative for businesses to effectively maintain their current customer base to encourage consumer loyalty. The consistent purchase of goods and services by consumers has a pivotal role in determining the level of success achieved in the realm of electronic commerce (Trivedi & Yadav, 2020). In the present context, the process of ascertaining client loyalty entails comprehending the elements that contribute to the retention of current customers, thereby enabling them to fulfill their loyalty within the realm of electronic commerce.

The phenomenon of customer loyalty has been extensively examined across various disciplines and settings. Loyalty, This term has gained widespread acceptance among professionals and scholars. Collier and Bienstock (2006) founded that customers who are satisfied with a company's web services are more inclined to repurchase, suggest the website to others, and engage in good word-of-mouth regarding the website's quality.

To retain consumers through loyalty. This needs deeper understanding to make this happen in terms of many factors. One of the factors that plays a pivotal role is different in many generation cohorts. Katadata Insight Centre (2023) shows differences in the behavior of different age groups in Indonesia towards purchasing products online. The number of e-commerce transactions carried out by consumers continues to increase to 5,4% in the range of 18-25 years (Medium, 2023). It is noted that consumers aged in that range can be group as gen-z age generations, they are still contributing to the largest proportion of the number of e-commerce transactions throughout 2022, namely reaching 46.2%. Consumers aged 18–25, or generation Z, were the largest contributor to the proportion of e-commerce transactions last year.

Furthermore, The Technology Acceptance Model (TAM) is a theoretical framework that may be employed to forecast the behavior of consumers, regardless of their level of expertise, by placing emphasis on their intention to repurchase. There is a need for a modification of the Technology Acceptance Model (TAM) in academic research that specifically examines the utilization of user interface (UI) and user experience (UX) within the context of electronic commerce (e-commerce). The Technology Acceptance Model (TAM) encompasses three key determinants of influence, namely perceived usefulness, perceived ease of use, and intention to use. The aspect of perceived ease of use plays a significant role in the global contribution of e-commerce to the economic system, as it offers convenience for both customers and service providers (Abumalloh et al., 2020).

Over time, the Technology Acceptance Model (TAM) has undergone developments resulting in TAM2 (Venkatesh & Davis, 2000) and TAM3. TAM3 incorporates additional aspects like as trust and risk, specifically in relation to online commerce (Venkatesh & Bala, 2008). Hence, drawing inspiration from the advanced Technology Acceptance Model (TAM) theory, the framework of this study incorporates the inclusion of perceived security risk (PS) and service quality information as proposed by Parasuraman et al. (1988).

The concept of perceived ease of use refers to the degree to which individuals are able to interact with technology in a straightforward manner without encountering significant challenges or expending excessive amounts of energy or time (Dachyar & Banjarnahor, 2017). Within the realm of e-commerce, perceived security pertains to the way customers perceive the overall security of a transaction, meanwhile perceived security risk is the risk that consumers try to avoid from the security system.

Several studies by Olaleye et al. (2020), Kang & Namkung (2019), and Polcharoensuk & Yousapornpaiboon (2017) have supported the inclusion of E-Trust as a mediating variable between service quality and loyalty. Furthermore, the previous study also have supported the inclusion of satisfaction as a mediating variable between service quality and loyalty. The findings of these studies indicate that the perceived ease of use significantly influences the intention to repurchase, while the level of E-Trust also impact loyalty.

Table 1.2 Ten regions with the highest e-commerce transaction population (average 2019-2021)

10 Daerah dengan Penduduk Bertransaksi E-Commerce Tertinggi (Rata-rata 2019-2021)								
Urutan	Daerah	Jumlah Penduduk	Jumlah Penjual dan Pembeli Melalui Internet	Penjual dan Pembeli Melalui Internet terhadap Jumlah Penduduk (%)	Pertumbuhar 2019-2021 (%)			
1	Kota Yogyakarta	436.220	161.031	36,9	16,3			
2	Kota Bekasi	3.028.683	816.351	27,0	103,2			
3	Kota Depok	2.441.837	659.958	27,0	82,7			
4	Kota Madiun	177.359	46.273	26,1	50,6			
5	Kota Jakarta Pusat	923.343	241.420	26,1	76,3			
6	Kota Jakarta Selatan	2.276.164	612.634	26,9	47,0			
7	Kota Bandung	2.529.714	616.109	24,4	61,5			
8	Kota Bogor	1.112.465	236.225	21,2	113,5			
9	Kota Jakarta Timur	2.939.583	662.434	22,5	61,7			
10	Kota Salatiga	195.565	46.249	23,6	38,5			
	Nasional	269.733.549	26.676.455	9,9	60,8			

Source: Susenas, March 2021

Based on the table above, it is known that in Indonesia, with a population of over 138 million individuals, e-commerce users all come from provinces and cities on the island of Java, which consists of the provinces of Yogyakarta, Jakarta, West Java, and Central Java. Indonesia has varying patterns of online shopping distribution among its provinces. Indonesia is the country under consideration. Datanesia 2022 utilizes the ranking methodology that considers the average performance over three years, namely encompassing the period from 2019 to 2021.

Given the disparity in population distribution between 514 cities, the focus of analysis lies in determining the proportion of individuals engaging in internet-based buying and selling activities (often referred to as e-commerce) relative to the total population within each city. The ranking is determined by calculating the average over three years, specifically the period from 2019 to 2021. Given the disparity in population distribution between 514 cities, the metrics of interest pertains to the proportion of individuals within each city engaging in online commercial activities (e-commerce) relative to the overall population. The ten most prominent e-commerce regions in Indonesia are primarily concentrated on the island of Java. Consumers on the island of Java have different characteristics from other regions in Indonesia.

This study employs several variables to construct the conceptual framework of the investigation. The variables utilized in this study encompass independent variables such as perceived ease of use, perceived security risk and information quality dependent variables including loyalty, and mediating variables including e-trust.

This research is trying to understand the factors that affect loyalty in e-commerce in Indonesia. This research aims to explain and analyze the factors that influence loyalty in e-commerce marketplaces in Indonesia and analyze differences in these factors in terms of respondent age. It is also intended to explain and analyze whether E-Trust can mediate the influence of

perceived ease of use, perceived security risk and information quality on loyalty in the e-commerce marketplace. Based on this explanation, researchers are interested in conducting research with the title "The Role of Perceived Ease of Use, Perceived Security Risk and Information Quality towards Loyalty in the Indonesian Marketplace: Study of Generation Z."

LITERATURE REVIEW

2.1 Service Quality

The conceptual definition of service quality, as formulated by has been widely utilized to assess the level of excellence in customer service interactions. Service quality refers to the customers' overall perception of how good or bad a service provider and its services are and is often associated with the customers' general attitude towards the organization (Parasuraman et al., 1988). This notion of service excellence encompasses multiple aspects. An attitude that has been formed based on past experiences with a service firm (Bitner, 1990; Parasuraman et al., 1985, 1988). The SERVQUAL approach has been widely and effectively utilized for assessing service quality. The model is used to measure service quality in the context of the marketplace.

2.2 Perceived Ease of Use

According to Davis (1989), the probability of users accepting a system is positively correlated with its ease of use. The construct of perceived ease of use is a key component within the Technology Acceptance Model (TAM) paradigm. It relates to an individual's subjective perception of the ability to utilize technology without the need for significant effort (Davis, 1989). The user holds the opinion that using the particular information system they use requires little effort in terms of both time and energy. The concept of perceived ease of use pertains to the degree to which individuals perceive that the website utilized for the purpose of acquiring goods or services can facilitate the retrieval of substantial information with less exertion on the part of the consumer (Dachyar & Banjarnahor, 2017).

According to Davis (1989), there are several indicators used to measure perceived ease of use, namely as follows:

- 1. Easy to learn
- 2. Clear and understandable
- 3. It is easy to become skilled.
- 4. Easy to use or operate
- 5. Easy to remember
- 6. Controllable

The TAM model establishes a correlation between the perception of security risk and customer trust and loyalty. Therefore, the hypothesis is stated as:

H₁. Perceived ease of use is significant and positively to customer loyalty

H₂: Perceived ease of use is significant and positively related to e-trust

2.3 Perceived Security Risk

Past research has extensively explored the mediating role of e-trust in relation to various service quality elements. To enhance consumer confidence, an e-service provider can enhance online security and reduce customer perceptions of security risk (Warrington, Abgrab, & Caldwell, 2000). Therefore, the concept of perceived security is crucial in the online environment. The measurement of perceived security risk used in previous research (Kolsaker & Payne, 2002) are:

- 1. Will not cause financial risk
- 2. Electronic payment through website is safe
- 3. The website is a safe place to transmit sensitive user information.

The TRA model establishes a correlation between the perception of security risk and customer trust with loyalty. Therefore, the hypothesis is stated as:

H₃: Perceived security risk has significant and negative a relationship with loyalty

H₄: Perceived security risk has a significant and negative relationship with e-trust.

2.4. Information Quality

Marketplace has been found to have a favorable correlation with consumer adoption, as demonstrated by Cao, Zhang, and Seydel (2005). The inclination of consumers to consider Engaging in e-commerce is associated with a sense of amusement, which is

impacted by the perceived utility and simplicity of use and is also connected to the quality of information provided on the website (Ahn, Ryu, & Han, 2007). Several studies have shown a favorable correlation between website IQ and e-trust, as demonstrated by Eid (2011), Park and Kim (2003), and Sharma and Lijuan (2015). Nevertheless, Cyr (2008) discovered varying connections between different civilizations. The measurement of information quality from Eid (2011) and Park and Kim (2003) are:

- 1. Information is current and timely
- 2. Accurate and relevant
- 3. Information is at the right level of detail
- 4. Information based on consumers' need
- 5. Easy to understand

Therefore, the hypothesis might be formulated as:

 H_5 = E-commerce website information quality (IQ) has a significant and positive relationship with loyalty

 H_6 = E-commerce website information quality (IQ) has a significant and positive relationship with e-trust.

2.5 E-Trust

Based on the aforementioned empirical evidence, e-trust plays a crucial role in mitigating the uncertainties and risks associated with the online buying environment, which possesses distinct traits that contribute to heightened uncertainty and risk levels in consumers' purchasing decisions. In addition, within the realm of electronic commerce, the process of conducting transactions necessitates the exchange of information. The primary factor deterring customers from engaging in e-commerce shopping transactions is the heightened degree of uncertainty and risk associated with online transactions (Dachyar & Banjarnahor, 2017). To evaluate E-Trust, Sullivan and Kim (2018) used the Ba and Pavlou (2002) trust measuring instrument. They have identified multiple indicators that can be employed for the measurement of e-trust:

- 1. Competent
- 2. Honest
- 3. Reliable

Based on this argument, it is reasonable to conclude that if customers get trust and a sense of security from e-commerce, they are more likely to make repeat purchases. Customer loyalty grows over time as their trust in a service grows. As a result, in e-commerce, E-Trust is the primary indication that has a major influence on loyalty behavior. Therefore leading to the hypothesis:

H₇: E- Trust has a significant and positive relationship with Loyalty

2.6 Customer loyalty

Consumer loyalty refers to the act of consumers making purchases without being repeatedly coerced, and it serves as a dependable indicator for predicting sales growth (Priansa in Nusjirwan, 2020) states that companies typically engage in formal communication activities with their customers. However, there are also companies that adopt an informal approach to communication with consumers, allowing them to gather detailed information from customers. To evaluate loyalty, Eid (2011) and Oliver (1997) used a loyalty measuring instrument. They have identified multiple indicators that can be employed for the measurement of loyalty:

- 1. Repurchase
- 2. Not willingly changes, not switchers
- 3. Changing preference requires major rethinking

2.5 Generation Theory

As stated by the Central Statistics Agency (BPS), Indonesia's population is currently grouped into 6 (six) generations, namely Post Generation Z (Post Gen Z), Generation Z (Gen Z), Millennials, Generation X (Gen -Boomers). Post Gen Z is the generation born in 2013 and onwards. As for Gen Z, it is the generation born in 1997-2012. They are now aged 8-23 years. Meanwhile, Millennials are the generation born in 1981-1996 (currently aged 24-39 years). Next, Gen X is the generation born in 1965-1980 (now aged 40-55 years). Then Baby Boomer, namely the generation currently aged 56-74 years (born 1946-1964). Then finally, the Pre-Boomers are the generation born before 1945. This means their current age is 75 years and over

2.6 Generation Z (born in 1997-2012)

Generation Z exhibits characteristics of being "digital natives" due to their birth during a period of improved digital technology. They are alternatively designated as the iGeneration. The norms of Generation Z diverge from those of preceding generations. The current generation, have been born into a technologically advanced era, exhibits a strong affinity for and reliance on digital gadgets, consistently engaging with online platforms for extended periods of time. This phenomenon is evident in their

behavioral patterns or can be observed within the context of their surroundings. They encounter significant challenges in engaging in alternative modes of socialization. In contrast to generation Y, generation Z demonstrates a limited understanding of the notion of conflict resolution. Individuals that possess practicality rather than intelligence tend to exhibit greater wisdom in the realm of leadership due to their inherent courage. Generation Z has a greater degree of patience and adaptability in comparison to preceding generations, actively pursuing novel challenges and consistently embracing new ideas and innovations. The absence of fear towards change is evident in their attitude, as they recognize the vast amount of knowledge available on the internet, albeit with certain limitations.

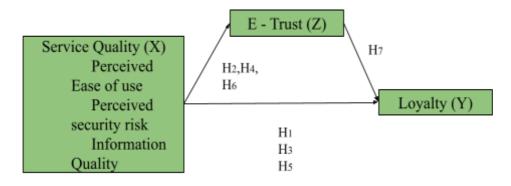


Figure 3. Theoretical Framework

3. RESEARCH DESIGN AND METHODOLOGY

3.1 Methods

The research method is quantitative using explanatory research and the sample of respondents uses non-probability sampling of online shop consumers. This quantitative method uses descriptive and data analysis using Smart PLS software with Multivariate analysis-Structural Equation Model Partial Least Square Method (SEM-PLS). The research data was obtained using a Likert scale questionnaire distributed online. This study uses a questionnaire method or distributes questionnaires to objects that have characteristics that have been determined by the researcher. The population taken in this study is Generation Z or people who are born after 1997 who are the users of e-commerce and have made transactions. In this study, the sampling technique utilized is non-probability sampling that uses the method of purposive sampling, which this study has criteria.

3.2 Measurement

Data retrieval was conducted using questionnaires and using a Likert measuring scale. There are five-point rating scales in this study, so respondents are more facilitated because the categories have a precise order, ranging from "strongly disagree" to "strongly agree" Malhotra & Dash, 2010. All questions on the questionnaire use a Likert scale which will be scored, with the following levels: 1 point for strongly disagreeing, 2 for disagreeing, 3 for neutral, 4 for agree, and 5 for strongly agree. The questionnaire is divided into several sections. The first part contains questions about the respondent's identity, such as age, occupation, income, domicile. The following section contains statements of several indicators that are adjusted to the variables to be studied.

3.3 Analysis

This research uses Smart PLS software to analyze the data with SEM-PLS. The SEM model in this study aims to analyze the variables to know the influence and relationship between variables. It must first test the complete model for the goodness of fit. The model of data analyzed in this research includes SEM and Path analysis. These are the path analysis correlation:

Perceived ease of use —> loyalty
Perceived security risk —> loyalty
Information quality —> loyalty
Perceived ease of use —> e-Trust
Perceived security risk —> e-Trust
Information quality —> e-Trust
E-Trust —> Loyalty

Table 2. Results of confirmatory factor analysis

Construct/Item	Loadings (a)	t-value (b)	Std Err	Cronbac h Alpha
Information Quality				0.891
IQ1: Information is current and timely	.881	19.71	0.07	
IQ3: Information is accurate and relevant	.867	19.65	80.0	
IQ4: Information is at the right level of detail	.844	19.52	0.08	
IQ5: Information is pretty much what I need to carry out my	.851	19.45	80.0	
tasks	.848	19.54	0.07	
IQ6: Information is easy to understand				0.910
Website usability	.881	18.76	0.07	
US1: website well organized.	.876	18.20	0.06	
US2: Navigation is consistent and standardized	.845	18.64	0.07	
US4: Scrolling through pages is kept to minimum.	.838	18.57	0.07	
US5: Graphics and animation do no detract from use				0.876
Reliability	.901	17.23	0.07	
REL1: When the website promises to do something it does so	.871	17.45	0.07	
REL2: Relevant order confirmation details is sent to the	.866	17.73	0.06	
customer	.864	18.31	0.07	
REL3: Order cancellation and returns are confirmed	.887	18.23	0.06	
REL4: Order tracking details are available until delivery REL5: Website service performs the service right the first time	.712	20.01	0.07	0.873
REL6: Website is available all time	.899	18.06	0.06	
Responsiveness				
RES1:, Website service shows a sincere interest in solving	.876	18.01	0.05	
customer's problems				
RES2: Automated or human e-mail responses give customer	.869	17.95	0.06	
prompt service	.865	17.66	0.06	
RES3: Emails' responses are relevant and accurate	.767	16.89	0.05	
RES4: Emails' content is appropriate to customer requirements				
RES5:Website addresses are included in all existing				0.889
documentation, publicity and advertising channel	.923	21.12	80.0	
Assurance	.941	21.18	80.0	
ASS1: Security policy is accessible	.867	19.24	0.07	
ASS2: Privacy policy is accessible	.888	19.32	0.07	
ASS3: The website contains company details				
ASS4: The website's retailer is widely known for having a good				0.924
reputation	.923	17.11	0.05	
Personalization	.885	18.10	0.05	
PER1: The website gives me personal attention	855	10.04	0.05	
PER2: The website enables me to order the product in a way that	.862	18.64	0.05	
meets my needs				
PER3: The website understands my specific needs		1	1	1

⁽a). Extraction Method: Principal Axis Factoring : Rotation Method: Varimax with Kaiser

Perceived security risk (Cronbach's alpha = 0.795, CR= 0.800, AVE = 0.575)

Purchasing on e-commerce website will not cause financial risk. 0.709 Eid (2011), Kolsaker & 0.804 Payne (2002) and Dong-(2004) 0.827 The electronic payment on the website is safe. The website is a safe place to transmit sensitive user's information.

CONCLUSION

This research study is employs several variables to construct the conceptual framework of the investigation. The variables utilized in this study encompass independent variables such as perceived ease of use, perceived security risk and information quality dependent variables including loyalty, and mediating variables including e-trust.

This research is trying to understand the factors that affect loyalty in e-commerce in Indonesia. This research aims to explain and analyze the factors that influence loyalty in e-commerce marketplaces in Indonesia and analyze differences in these factors in terms of respondent age. It is also intended to explain and analyze whether E-Trust can mediate the influence of perceived ease of use, perceived security risk and information quality on loyalty in the e-commerce marketplace.

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Normalization.; loadings < 0.30 not shown (b). These are standardized loadings estimates from CFA using the CALIS procedure of SAS package.

⁽c). Based on t-tests for null hypothesis, t-value greater than 1.96 are significant at p >: 0.05; t-value greater than 2.567 are significant at p >: 0.01; t-value greater than 3.29 are significant at p >: 0.001

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