# Re-visiting the E-SERVQUAL and Expectancy Disconfirmation Theory in the Context of the Service Industry in Malaysia

\*Zuhairah Hasan, Muhammad Farhan Mohammad Asri, Siti Norashikin Bashirun, Nurul Ain Mustakim Faculty of Business & Management, Universiti Teknologi MARA, Cawangan Melaka Kampus Bandaraya Melaka, Malaysia

\*zuhairah612@uitm.edu.my, muhammadfarhan261000@gmail.com, shikinbashirun@gmail.com, ainmustakim@uitm.edu.my

Corresponding Author: Zuhairah Hasan

**Abstract:** The SERVQUAL model has been used for several years to illustrate the relationships between tangible, assurance, reliability, responsiveness, empathy, and customer satisfaction. This paper posits that the SERVQUAL model requires an extension to better explain the relationships between the factors that influence customer satisfaction. The main difference is that the revised SERVQUAL includes the dimensions that apply to the online service industry or e-commerce, thus the proposed e-SERVQUAL comprises fulfillment, efficiency, privacy, and system availability. In this paper, e-SERVQUAL pinpointed two underpinning theories which are e-SERVQUAL and Expectancy Disconfirmation Theory (EDT). This study delves into the foundation, expansion, and evolvement of both theories particularly in the online food delivery service industry in Malaysia. The main objective of this paper is to present the reviews of the literature on e-SERVQUAL and Expectancy Disconfirmation Theory on the relationship between the elements that influence e-customer satisfaction. The study contributes to developing and improving the model that defines service quality in a digital service context. Correspondingly, it emphasizes the robustness of the theories and further enriches the academic literature.

**Keywords**: e-SERVQUAL, Expectancy Disconfirmation Theory, e-customer satisfaction

## 1. Introduction

During the Pandemic Covid-19 the Online Food Delivery (OFD) service is high in demand for most customers. Covid-19 has raised the demand for food delivery services as people cannot go to congested places due to lockdown back in the day. Nowadays, with the Endemic Covid-19, businesses have shifted partially from physical to online including food delivery services. Food delivery is a courier service that delivers food from retail restaurants or cafes to customers. Customers can make an order through the website or mobile apps of online food service providers. Customers nowadays use the OFD due to the lifestyle that developed from the pandemic Covid-19 and remarkably customers now are familiar with the application, interface, and website. Moreover, they feel it is more convenient to order food online which will benefit in time-saving orientation and sometimes get more online promotion from the service provider. The consumer can save time and do other things while the food is on its way to be delivered. Customers are given two options to order the food which is by website or mobile apps.

In Malaysia, OFD has started to upsurge since the Pandemic Covid-19 outbreak due to a total lockdown made by the government that customers cannot go outside freely. Service providers such as Grabfood, Foodpanda, ShopeeFood, Bungkusit, DeliverEat, Tapau, and OdaMakan are among the most popular food delivery services in Malaysia. Online Food Delivery (OFD) has become more competitive in the business nowadays. This has been possible due to OFD could satisfy the needs of people who live in city areas who are busy and prefer their meals to be delivered to their location. Therefore, to meet the needs of customers, a business needs to fulfill the customer's expectations. Among the most used food delivery service providers in Malaysia are Grabfood, and Foodpanda, which are the powerhouse in the OFD industry with a total number of apps installed is 100 million plus and 50 million plus respectively. It indicates that the number of apps installed is equivalent to the number of users but this data is only collected in the Google Play store (YellowBees, 2021).

Despite the large number of customers using the OFD, there are still some who are dissatisfied with the service. There are too many complaints were made that the authorities had to establish a special channel for customers of OFD to make a complaint with concern to any issue of OFD. According to the Ministry of Domestic Trade and Consumer Affairs, (2021), more than 1,900 complaints were received. In 2021, the ministry received

complaints from Foodpanda and Grabfood a total of 946 and 43 respectively (Yin, 2021). This indicates a significant number of consumers that are not satisfied with OFD service in Malaysia hence the business must improve their service quality to ensure the customer is well satisfied. Among the prominent issues highlighted are delivery issues, technical problems in the application or website, and the payment issue. Hence, this paper will begin by briefly reviewing the main construct (e-customer satisfaction), followed by the proposed variables (fulfillment, efficiency, privacy, and system availability), the underpinning theories to support the hypothesized link, and finally the findings. As a result, the study was conducted to examine the association between factors that influence customer satisfaction. This conceptual paper aims to further explore how the variables in the SERVQUAL model can be tested empirically. The service industry in Malaysia must understand the customer satisfaction level so that they can enhance a better service.

#### 2. Literature Review

## **E-Customer Satisfaction**

Customer satisfaction is a central part of businesses, it's a measurement of how well the business is running and how it satisfies the customer's needs and wants (Muhammad Maladi, 2019). A higher degree of customer satisfaction leads to the development of a lucrative relationship (Fuentes-Blasco et al., 2017). Customer satisfaction must be prioritized because eventually it will persuade customers to repeat purchases, allowing the business to thrive and compete (Jasin & Firmansyah, 2023). According to Puspasari et al., (2022) satisfaction of the customer is significant to keep their customers in the market. While according to Mongdong & Tumewu, (2015) Customer satisfaction refers to a person's feelings of excitement or dissatisfaction subsequently evaluating what they think of the good or service that they expected. Moreover, customer satisfaction means either enjoyment or disappointment as a result of analyzing the goods or services they consumed compared to customer expectations (Su et al., 2016). Customers will be very delighted if the presentation of the company's services matches what they expect. Customer satisfaction scopes are made up of various components. Numerous studies have examined customer satisfaction as a dependent variable as mentioned above. According to the Expectancy Disconfirmation Theory (EDT), the satisfaction of a customer is shaped by the perceived gap between expectancy and real experiences (Oliver & Desarbo, 1988). In electronic commerce, customers have specific expectations regarding the services they receive. These expectations include punctuality of delivery, precise order fulfillment, and privacy. If the business fails to meet these expectations can lead to unhappiness (Zeithaml et al., 2002). Several studies have examined the relationship between e-service quality and e-customer satisfaction within the online business environment. Improving the quality of the service is an encouraging strategy to ensure the businesses are more attractive and to boost customer pleasure (Fasihah et al., 2020). Farooq et al. (2018) reported on the perceptions of service quality and its special effects on customer satisfaction. Dalbehera (2020) explored academics' views on e-service quality and its influence on perceived value, satisfaction, and constancy toward e-library services.

## **Fulfillment**

Parasuraman et al. (2005), fulfillment refers to the e-commerce website meeting its promises regarding the delivery of order and availability of the items. This concept encompasses various elements, such as the accuracy of service commitments, availability of the orders, and the timely delivery of correct items to customers (Wang et al., 2003). De Vos et al. (2015) expand on this by emphasizing the importance of accurately displaying products to customers, ensuring that the received product matches what was ordered, and delivering within the promised timeframe. Rafiq et al. (2012) identified fulfillment as the most crucial factor in online business. Multiple research has demonstrated the constructive impact of fulfillment on e-customer satisfaction in online shopping. Research by Singh Shergill et al. (2005) established that fulfillment enhances customer satisfaction, a finding supported by Kandulapati Shekhar Bellamkonda (2014) and Jain et al. (2017). Effective fulfillment practices not only improve a company's visibility but also help build a positive reputation, deliver a superior customer experience, and ultimately increase satisfaction (San et al., 2020). Additionally, several studies have validated the substantial and positive effect of fulfillment on e-customer satisfaction (Çelik, 2021; Ding et al., 2011; Kim & Kim, 2010; Rita et al., 2019). Consistently, these studies indicate that meeting promises, accurately and promptly delivering products, and fulfilling customer expectations are vital for ensuring satisfaction in e-commerce environments.

## **Efficiency**

Efficiency refers to the easiness and speediness of consumers to use and operate an online platform, such as an auction site (Parasuraman et al., 2005). Zeithaml et al. (2002) emphasize that efficiency is a critical dimension reflecting customers' ability to explore and use the website, locate their products, and attain the information with little effort. Achieving efficiency involves having a user-friendly, well-organized website. Thus, evaluating efficiency is essential for evaluating the quality and functions of the website. Similarly, Wang (2003) describes efficiency as the capability of the customer to operate the website and find desired products effortlessly. Essentially, efficiency is a time-saving and convenient use of applications or websites, which includes how companies simplify and accelerate website or application access (Mayasari et al., 2020). Khan et al. (2015) highlight the significance of the efficiency of business websites. Several studies in the literature demonstrate a positive correlation between efficiency and e-customer satisfaction. For example, Khan et al. (2019) found a significant positive relationship between efficiency and customer satisfaction. Elsharnouby and Mahrous (2015) similarly reported that the efficiency dimension significantly influences customer satisfaction. Durmus et al. (2015) also found that the efficiency dimension of e-service quality impacts e-customer satisfaction. Research by Leonnard (2019) further supports the notion that efficiency significantly affects e-customer satisfaction. Consequently, the literature consistently confirms that efficiency is closely correlated with ecustomer satisfaction.

## **Privacy**

Privacy is the extent to which a website ensures the safety and protection of buyer details (Parasuraman et al., 2005). It involves safeguarding customer shopping behavior data, preventing the disclosure of personal information to external parties, and securing their financial details (Zeithaml et al., 2002). Customers tend to perceive higher service quality in e-commerce websites that implement robust privacy measures (Mamakou et al., 2023). In the e-commerce context, privacy pertains to protecting customer data during online transactions ensuring the confidentiality and security of sensitive information (Cheng et al., 2021). Similarly, Khan et al. (2019) describe privacy as the platform's ability to protect customer information from unauthorized access or misuse. Akin (2017) highlights that privacy features ensure the confidentiality of customer-provided information throughout the purchasing process, preventing unauthorized third-party access. Customer concerns about data processing, storage, and security issues (Libaque-Sáenz et al., 2021). For instance, Andrew et al. (2019) demonstrated that privacy significantly influences customer dependence and the agreement of online services, such as e-wallets. This finding aligns with recent research, consistently indicating a constructive association between privacy and satisfaction (Bozbay et al., 2016; Chang et al., 2005; Wang et al., 2019; Yoo & Donthu, 2001). The literature clearly shows that privacy positively influences e-customer satisfaction.

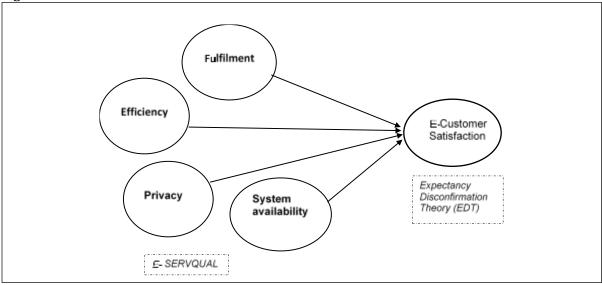
## System availability

System availability pertains to the operational functionality of a website, including its effortlessness of accessibility (Parasuraman et al., 2005). This entails the speediness of a website to appear and load during the processing. Similarly, primary functions include website availability, stable transmission of the data, accuracy of ordering and minimal times (Bauer et al., 2006). Khan et al. (2019) describe system availability as the smooth and glitch-free technical operation of a website, ensuring seamless navigation and functionality. The ordering system is crucial as it enables customers to make orders, complete payments, and trail deliveries, highlighting the necessity of its availability and reliability. Rapid load speeds and user-friendly online payment systems are crucial to increasing the satisfaction of the customers, underscoring the prominence of system availability in improving the overall user experience (Cheng et al., 2021; Kang & Namkung, 2019). Studies on system availability have consistently demonstrated its constructive influence on e-customer satisfaction (Kim & Kim, 2010). Zhuang and Babin (2015) found that customers feel dissatisfied if a website's system availability needs to be improved. Additionally, San et al. (2020) identified system availability as the strongest predictor of customer satisfaction among various factors of electronic service quality. This highlights the importance of online retailers emphasizing system availability to meet customer expectations (San et al., 2020). The literature indicates that system availability has a substantial impact on e-customer satisfaction.

## 3. Research Methodology

The current study utilized an extensive literature review to investigate the development of two theories in this study, e-SERVQUAL and Expectancy Disconfirmation Theory (EDT). This paper aims to analyze the effect of electronic service quality on the level of satisfaction among online food delivery customers in Malaysia. This study explores the foundation, expansion, and evolvement of both theories particularly in the online food delivery service industry in Malaysia.

Figure 1: Theoretical Framework



In Figure 1 illustrates the hypothesized link between four independent variables comprised of fulfillment, efficiency, privacy, and system availability, and their impacts on e-customer satisfaction. In this paper, e-SERVQUAL identified two underpinning theories which are e-SERVQUAL and Expectancy Disconfirmation Theory (EDT).

#### 4. Underpinning Theories and Findings

## E- SERVQUAL

Parasuraman and Berry (1980) created the theoretical framework known as SERVQUAL. It is to evaluate and analyze the level of service that businesses offer. It is a popular technique for measuring and raising the quality of the service delivered by businesses. The foundation of SERVQUAL is the idea that consumers assess the level of service they receive based on five elements which are tangible, assurance, reliability, responsiveness, and empathy (Parasuraman et al., 1985). Table 1.1 shows, that since its creation in the 1980s, the SERVQUAL model has undergone several updates and adjustments. Some of the significant changes in SERVQUAL's development. In the early 1990s, several studies hypothesized that the SERVQUAL consistency dimension was unnecessary because it was fully covered by the other four dimensions. Furthermore, in the late 1990s, as technology usage increased for service delivery, researchers questioned whether the SERVQUAL theory applied to online services. A redesigned model dubbed E-S-QUAL was then put forth in response, and it now incorporated three further dimensions, website design, security and privacy, and reliability. After that, Zeithaml created a 22-item version of the SERVQUAL questionnaire in 2002 to reduce respondent fatigue and boost response rates. (Buttle, 1996).

To make the SERVPERF model more useful and user-friendly, it was also simplified to a 22-item questionnaire in 2005. Lastly, The SERVQUAL model was revised in 2010, aiming to address some of the critiques of the original theory, such as the absence of a strong theoretical underpinning and the failure to consider the role of emotions in service quality. In 1985, the SERVQUAL model, developed by Parasuraman and colleagues, introduced five critical dimensions for assessing service quality: tangibility, assurance, reliability,

responsiveness, and empathy (Parasuraman et al., 1985). Recognized as a preeminent tool for evaluating and enhancing service quality, the SERVQUAL model has been widely applied in numerous studies (e.g., Cook & Thompson, 2000; Kansra & Jha, 2016; Khan et al., 2019; Kitapci et al., 2014; Van Der Wal et al., 2002), underscoring its significant impact in the field. In 1992, Cronin and Taylor (1992) advanced the SERVQUAL model by creating the Service Performance (SERVPERF) framework, responding to criticisms about the SERVQUAL model's conceptual underpinnings and its approach to measuring service satisfaction. Initial adaptations were directed to the expansion of models such as WebQual in 2000 by Barnes et al. (2000), concentrating on the quality of information and usability. However, criticisms regarding WebQual's comprehensiveness prompted further refinements. Yoo and Donthu (2001) responded by developing SITEQUAL, which emphasized user-friendliness, in terms of design, speediness and safekeeping.

Nevertheless, it also faced criticisms for potentially overlooking critical aspects of the online buying process. In 2003, Wolfinbarger and Gilly (2003) presented the Electronic Retail Quality (eTailQ) model, which included dimensions such as reliability/fulfillment, website layout, customer service, and security. Despite its utility, eTailQ was criticized for neglecting the hedonic aspects of internet shopping and its dimensional structure. To address these issues, Zeithaml et al. (2002) introduced e-SERVQUAL, a scale designed to analyze the perceived service quality in online retailing. Subsequently refined by Parasuraman et al. (2005) into the E-S-QUAL and E-RecSQUAL scales, which evaluate website service quality through variables such as efficiency, fulfillment, system availability, and privacy. According to Parasuraman et al. (2005), electronic service quality involves the degree to which a website facilitates efficient and effective shopping, purchasing, and delivery in the context of online services. Understanding e-service quality is essential for identifying customer preferences in online transactions. As shown in Table 1.1 there is wide usage and recognition in the existing literature. Many researchers utilized the E-SERVQUAL model due to its consistency in measuring service quality. Despite the research on customer satisfaction as a dependent variable, there remains a scarcity of studies specifically to examine customer satisfaction from the perspective of OFD.

Table 1: The summary of e-service quality evolution scales

Author	Theory	Dimension
Parasuraman et al. (1985)	SERVQUAL	Tangible, assurance, reliability, responsiveness and empathy
Cronin and Taylor (1992)	SERVPERF	Tangibles, reliability, responsiveness, empathy, and assurance
Barnes et al. (2000)	WebQual	Usability, information quality, and service interaction quality
Yoo & Donthu (2001)	SITEQUAL	Ease of use, aesthetic design, processing speed, and security
Wolfinbarger & Gilly (2003)	eTailQ	Reliability/fulfillment, website design, customer service, and privacy/security
Zeithaml et al. (2002)	e-SERVQUAL	Efficiency, compensation, reliability, fulfillment, contact, responsiveness, and privacy
Parasuraman et al. (2005)	E-S-QUAL	Efficiency, fulfillment, system availability, and privacy
Blut (2016)	E-SQUAL	Website design, customer service, security/privacy, and fulfillment
Xu et al., (2017)	e-SERVQUAL	Fulfillment, after-sales, agreement, information
Khan et al., (2019)	e-SERVQUAL	Fulfillment, efficiency, privacy/security, system availability, e-customer loyalty
Raza et al. (2020)	e-SERVQUAL	Site organization, reliability, responsiveness, user- friendliness, personal need, efficiency
Ashiq & Hussain (2023)	SERVQUAL e-SERVQUAL	Reliability, responsiveness, security, convenience e-trust

## **Expectancy Disconfirmation Theory (EDT)**

Expectancy Disconfirmation Theory (EDT) is a prominent framework in marketing, initially developed by Oliver & Desarbo in 1988 to explain how customer satisfaction is identified by comparing perceived performance with pre-existing expectations. According to Oliver (2014), EDT postulates that customer

satisfaction is contingent upon the gap between expectations and experiences. Specifically, if a customer's expectations are met or exceeded, they experience pleasure; conversely, unmet expectations lead to dissatisfaction.

EDT outlines a five-step process from expectation formation to repurchase intention, explaining consumer satisfaction (C. H. Lin et al., 2005). Initially, consumers develop expectations about a product or service before purchase. Subsequently, they use the product or service and form performance perceptions based on critical attributes. These performance perceptions are then compared to their initial expectations, resulting in one of three outcomes: positive disconfirmation (performance exceeds expectations), confirmation (performance meets expectations), or negative disconfirmation (performance falls short of expectations). Based on this disconfirmation, consumers develop feelings of satisfaction or displeasure, moderate satisfaction outcomes from confirmation, delight from positive disconfirmation, and disappointment from negative disconfirmation. Ultimately, happy consumers are likely to reuse the offerings, whereas dissatisfied consumers are not. Studies by Lin et al. (2005) confirmed that expectation confirmation significantly influences satisfaction, which in turn positively affects the continued use of search engines and websites. Recent literature further demonstrates that EDT has been applied in various fields to investigate the impact of customer satisfaction on service quality (Matolo & Salia, 2021; Nugroho & Suprapti, 2022; Uzir et al., 2020).

## **Findings**

A business should consider increasing its value of service quality from several dimensions such as responsiveness, assurance, tangibility, dependability, and empathy to satisfy the customer. Meanwhile, Mahadevan et al., (2019) stated that tangibility, reliability, responsiveness, assurance, and empathy are the factors that influence customer satisfaction. In addition, consistently introducing new features could increase customer satisfaction with the intense competition in the market for food delivery apps, app developers need to focus on consumer needs and perceive them as user-friendliness (Wen et al., 2022). Agreeing to Sarwar (2016) responsiveness plays a significant role in influencing customer satisfaction since every customer wants an instant response from the service provider. On the other hand, studies from (Mahadevan et al., 2019) found that responsiveness is rejected and not significant to customer satisfaction. Due to the inconsistency of findings by the previous author thus, this study postulates the additional factors such as fulfillment, efficiency, privacy, and system availability and their relationship to e-customer satisfaction. Numerous studies have confirmed the substantial and positive effect of fulfillment on e-customer satisfaction. Several studies in the literature demonstrate a positive correlation between efficiency and e-customer satisfaction. The literature clearly shows that privacy positively influences e-customer satisfaction and from the above extensive literature review had identified system availability as the strongest predictor of customer satisfaction among various factors of electronic service quality.

# 5. Discussion and Conclusion

Building on the insights obtained from the review of the development and pertinent of both theories in the setting of OFD service in Malaysia, findings revealed a substantial association between four constructs; efficiency, fulfillment, system availability, and privacy on e-customer satisfaction. This study addresses the need for additional variables or factors for a service provider to increase service quality and satisfy the customer. The result of the current study will help businesses to provide better provisions in the OFD industry. The study enriches the understanding of e-service quality and e-customer satisfaction with online food delivery by examining the crucial factors influencing e-customer satisfaction. The study contributes to developing and improving the model that defines service quality in a digital service context. The findings of this study will provide a deeper understanding of service providers in the e-commerce sector, especially in the OFD market. The study offers practical suggestions for creating effective marketing and branding strategies in the competitive online food delivery business. Understanding customer preferences and the impact of online presence helps firms to strategically position themselves and establish powerful brand identities.

## References

- Akin, M. (2017). A Research on Measuring E-Service Quality in E-Retailing R M B R A Research on Measuring E-Service Quality in E-Retailing. International Review of Management and Business Research, 6(1). https://www.researchgate.net/publication/322643743
- Anderson, R. E., & Srinivasan, S. S. (2003). E-Satisfaction and E-Loyalty: A Contingency Framework. Psychology and Marketing, 20(2), 123–138. https://doi.org/10.1002/mar.10063
- Andrew, J. V., Nabila, S., Ambad, A., & Tan, K. E. (2019). A Model of Factors Influencing Consumers' Intention to Use e-Wallet System in Malaysia: A Systematic Review. In MJBE, 6(2).
- Apuke, O. D. (2017). Quantitative Research Methods: A Synopsis Approach. Kuwait Chapter of Arabian Journal of Business and Management Review, 6(11), 40–47. https://doi.org/10.12816/0040336
- Arslan, S., Atalık, Ö. (2016). E-loyalty on Social Media Sites and Research on the Airlines in Turkey, Academic Review of Economics & Administrative Sciences, 9(2).
- Ashiq, R., & Hussain, A. (2023). Exploring the effects of e-service quality and e-trust on consumers' e-satisfaction and e-loyalty: insights from online shoppers in Pakistan. Journal of Electronic Business & Digital Economics. https://doi.org/10.1108/jebde-09-2023-0019
- Ataburo, H., Muntaka, A. S., & Quansah, E. K. (2017). Linkages among E-Service Quality, Satisfaction, and Usage of E-Services within Higher Educational Environments. International Journal of Business and Social Research, 7(3). https://doi.org/10.18533/ijbsr.v7i3.1040
- Badran, O. N., Al-Haddad, S. I., Badran, O., & Al-Haddad, S. (2018). The impact of software user experience on customer satisfaction. In Journal of Management Information and Decision Sciences, 21(1). https://www.researchgate.net/publication/329018487
- Bargas-Avila, J. A., & Hornbæk, K. (2011). Old wine in new bottles or novel challenges? A critical analysis of empirical studies of User Experience. Conference on Human Factors in Computing Systems Proceedings, 2689–2698. https://doi.org/10.1145/1978942.1979336
- Barnes, S. J., Barnes, S., & Vidgen, R. (2000). WebQual: An Exploration of Web-Site Quality. WebQual: An Exploration of Web-site Quality. https://www.researchgate.net/publication/221408366
- Bauer, H. H., Falk, T., & Hammerschmidt, M. (2006). eTransQual: A transaction process-based approach for capturing service quality in online shopping. Journal of Business Research, 59(7), 866–875. https://doi.org/10.1016/j.jbusres.2006.01.021
- Blut, M. (2016). E-Service Quality: Development of a Hierarchical Model. Journal of Retailing, 92(4), 500–517. https://doi.org/10.1016/j.jretai.2016.09.002
- Bozbay, Z., Yaman, Y., & Özkan, E. (2016). The Role of Service Quality on Customer Satisfaction in Internet Retailing: A Comparative Study of Apparel and Book Industries. Journal of Transportation and Logistics, 1(1), 19–19. https://doi.org/10.22532/jtl.237885
- Camilleri, M. A. (2022). E-commerce websites, consumer order fulfillment, and after-sales service satisfaction: the customer is always right, even after the shopping cart check-out. Journal of Strategy and Management, 15(3), 377–396. https://doi.org/10.1108/jsma-02-2021-0045
- Cao, Y., Ajjan, H., & Hong, P. (2018). Post-purchase shipping and customer service experiences in online shopping and their impact on customer satisfaction: An empirical study with comparison. Asia Pacific Journal of Marketing and Logistics, 30(2), 400–416. https://doi.org/10.1108/APJML-04-2017-0071
- Çelik, K. (2021). The effect of e-service quality and after-sales e-service quality on e-satisfaction. Business & Management Studies: *An International Journal*, 9(3), 1137–1155. https://doi.org/10.15295/bmij.v9i3.1898
- Chang, M. K., Cheung, W., & Lai, V. S. (2005). Literature-derived reference models for the adoption of online shopping. Information & Management, 42(4), 543–559. https://doi.org/10.1016/j.im.2004.02.006
- Cheng, C. C., Chang, Y. Y., & Chen, C. T. (2021). Construction of a service quality scale for the online food delivery industry. International Journal of Hospitality Management, 95. https://doi.org/10.1016/j.ijhm.2021.102938
- Chen, Y. H., Hsu, I. C., & Lin, C. C. (2010). Website attributes that increase consumer purchase intention: A conjoint analysis. Journal of Business Research, 63(9–10), 1007–1014. https://doi.org/10.1016/j.jbusres.2009.01.023
- Chepukaka, Z.K. and Kirugi, F.K. (2019). Service quality and customer satisfaction at Kenya national archives and documentation service, Nairobi county: servqual model revisited, International Journal on Customer Relations, 7(1).

- Chopdar, P. K., Korfiatis, N., Sivakumar, V. J., & Lytras, M. D. (2018). Mobile shopping apps adoption and perceived risks: A cross-country perspective utilizing the Unified Theory of Acceptance and Use of Technology. Computers in Human Behavior, 86, 109–128. https://doi.org/10.1016/j.chb.2018.04.017
- Cook, C., & Thompson, B. (2000). Reliability and Validity of SERVQUAL Scores Used to Evaluate Perceptions of Library Service Quality. http://acs.tamu.edu/bbt6147.
- Cristobal, E., Flavian, C. and Guinaliu, M. (2007). Perceived e-service quality (PeSQ), *Managing Service Quality: International Journal*, 17(3), 317-340.
- Cronbach, L. J. (1951). Coefficient alpha and the internal structure of tests. In Psychometrika, 16(3).
- Dalbehera, S. (2020). Measuring service quality in digital library services by the research scholars of SOA University of Odisha using ES-QUAL model, in International Perspectives on Improving Student Engagement: Advances in Library Practices in Higher Education, Emerald Publishing.
- De Vos, J. M., Joppa, L. N., Gittleman, J. L., Stephens, P. R., & Pimm, S. L. (2015). Estimating the normal background rate of species extinction. Conservation Biology, 29(2), 452–462. https://doi.org/10.1111/cobi.12380
- Della Prisanti, M. (2017). Pengaruh E-Service Quality Dan E-Trus Terhadap E-Customer Satisfaction Serta Implikasinya Terhadap Ecustomer Loyalty. Journal of Business Studies, 2(1), 19-38.
- Ding, D. X., Hu, P. J. H., & Sheng, O. R. L. (2011). E-SELFQUAL: A scale for measuring online self-service quality. Journal of Business Research, 64(5), 508–515. https://doi.org/10.1016/j.jbusres.2010.04.007
- Doğan, H., Burucuoğlu, M. (2018). Consumers' Perceived Service Quality of and Intention to Re-Use Mobile Banking: An Empirical Study, Journal of Management Economics and Business, 14(4), 1183-1198.
- Dominique Winter and Jörg Thomaschewski. (2015). Faktoren der User Experience. Systematische Übersicht über produktrelevante UX-Qualitätsaspekte. In Mensch und Computer 2015 Usability Professionals (pp. 33–41). De Gruyter. https://doi.org/10.1515/9783110443882-005
- Durmuş, B., Erdem, Y. C., Özçam, D. S., Akgün, S. (2015). A New E-Trade Model in Turkish Clothing Sector: Elektronic Retailing Offer, Journal of Marmara University, 11(44), 17-32.
- Durukal, E., Okursoy, A., Armağan, E. (2019). An Analysis of The Effect of Electronic Customer Management Applied in Airline Companies on e-Loyalty by Structural Equation Modelling, Journal of Current Researches on Business and Economics, 9 (1), 61-84.
- EC insider. (2018, February 1). The food delivery battle has just begun in Malaysia. ecInsider.https://www.ecinsider.my/2018/02/food-delivery-companies-malaysia.html
- Elsharnouby, T. H., & Mahrous, A. A. (2015). Customer participation in online co-creation experience: the role of e-service quality. Journal of Research in Interactive Marketing, 9(4), 313–336.
- Erçetin, C., Arıkan, E. (2020). E-Service Quality, E-Satisfaction, E-Stickiness, and E-Loyalty Behaviors: A Study on E-Retail Shopping Sites, Dokuz Eylul University Faculty of Business Journal, 21 (1), 67-93.
- Faiz, E. (2018). The Effect of Service Quality of Online Travel Shopping on the E-Satisfaction and E-Loyalty, Electronic Journal of Social Sciences, 17(68).
- Farooq, M. S., Salam, M., Fayolle, A., Jaafar, N., & Ayupp, K. (2018). Impact of service quality on customer satisfaction in Malaysia Airlines: A PLS-SEM approach. Journal of Air Transport Management, 67, 169–180. https://doi.org/10.1016/j.jairtraman.2017.12.008
- Fasihah, W. N., Jasni, W., Raziff, M., Mohd, J., & Hanafiah, H. (2020). Online travel agencies (OTAs) e-service quality, brand image, customer satisfaction, and loyalty. In Journal of Tourism, Hospitality & Culinary Arts (JTHCA), 12(2).
- Fuentes-Blasco, M., Moliner-Velázquez, B., Servera-Francés, D., & Gil-Saura, I. (2017). Role of marketing and technological innovation on store equity, satisfaction and word-of-mouth in retailing. Journal of Product and Brand Management, 26(6), 650–666. https://doi.org/10.1108/JPBM-07-2016-1279
- Giannakos, M. N., & Vlamos, P. (2013). Educational webcasts' acceptance: Empirical examination and the role of experience. British Journal of Educational Technology, 44(1), 125–143. https://doi.org/10.1111/j.1467-8535.2011.01279.x
- Giovanis, A. N., & Athanasopoulou, P. (2014). Gaining customer loyalty in the e-tailing marketplace: the role of e-service quality, e-satisfaction and e-trust. In Journal for International Business and Entrepreneurship Development and Journal of Modelling in Management, 9(3).
- Gounaris, S., Dimitriadis, S., & Stathakopoulos, V. (2010). An examination of the effects of service quality and satisfaction on customers' behavioral intentions in e-shopping. Journal of Services Marketing, 24(2), 142–156. https://doi.org/10.1108/08876041011031118
- Güllülü, U., Uçan, Ö., F., Karabulut, T. (2016). The Measurement of The Service Quality of The Web Sites Selling Book, and The Service Quality's Effect on Perceived Value and Loyalty Intention Thereby Using Esqual;

- A Research on The Academicians of Erzincan University, Journal of Economics and Administrative Sciences, 30(1), 121-141.
- Guo, X., Ling, K. C., & Liu, M. (2012). Evaluating factors influencing consumer satisfaction towards online shopping in China. Asian Social Science, 8(13), 40–49. https://doi.org/10.5539/ass.v8n13p40
- Hamid, A. B. A., Uzir, M. U. H., & LATIFF, A. S. A. (2019). Does customer satisfaction exist in purchasing and usage of Electronic Home Appliances in Bangladesh through the interaction effects of Social Media? International Journal of Business Excellence, 1(1), 1. https://doi.org/10.1504/ijbex.2019.10024965
- Hansemark, O. C., & Albinsson, M. (2004). Customer satisfaction and retention: The experiences of individual employees. Managing Service Quality: An International Journal, 14(1), 40–57. https://doi.org/10.1108/09604520410513668
- Hassenzahl, M. (2008). User experience (UX): Towards an experiential perspective on product quality. ACM International Conference Proceeding Series, 11–15. https://doi.org/10.1145/1512714.1512717
- Horn, D., & Salvendy, G. (2006). Consumer-based assessment of product creativity: A review and reappraisal. In Human Factors and Ergonomics in Manufacturing, 16(2), 155–175. https://doi.org/10.1002/hfm.20047
- Hossain, M.J. (2019). Redefining expectancy disconfirmation theory using LIS SERVQUAL: an integrated framework for evaluating library service quality and user satisfaction, International Information and Library Review, 51(3), 203-216
- Jain, R., Aagja, J., & Bagdare, S. (2017). Customer experience a review and research agenda. In Journal of Service Theory and Practice, 27(3), 642–662). https://doi.org/10.1108/JSTP-03-2015-0064
- Jaiswal, A., K., Niraj, R., Venugopal, P., (2010). Context-General and Context-Specific Determinants of Online Satisfaction and Loyalty for Commerce and Content Sites, *Journal of Interactive Marketing*, 24, 222-238.
- Jasin, M., & Firmansyah, A. (2023). The Role of Service Quality and Marketing Mix on Customer Satisfaction and Repurchase Intention of SME Products. Uncertain Supply Chain Management, 11(1) 383-390.
- Joyce, A. S., Ogrodniczuk, J. S., Piper, W. E., & McCallum, M. (2003). The alliance as a mediator of expectancy effects in short-term individual therapy. Journal of Consulting and Clinical Psychology, 71(4), 672–679. https://doi.org/10.1037/0022-006X.71.4.672
- Juwaini, A., Chidir, G., Novitasari, D., Iskandar, J., Hutagalung, D., Pramono, T., Maulana, A., Safitri, K., Fahlevi, M., Sulistyo, A. B., & Purwanto, A. (2022). The role of customer e-trust, customer e-service quality, and customer e-satisfaction on customer e-loyalty. International Journal of Data and Network Science, 6(2), 477–486. https://doi.org/10.5267/j.ijdns.2021.12.006
- Kandulapati, S., & Shekhar Bellamkonda, R. (2014). E-service quality: a study of online shoppers in India. American Journal of Business, 29(2), 178–188. https://doi.org/10.1108/ajb-05-2013-0030
- Kang, J. W., & Namkung, Y. (2019). The information quality and source credibility matter in customers' evaluation of food O2O commerce. International Journal of Hospitality Management, 78, 189–198. https://doi.org/10.1016/j.ijhm.2018.10.011
- Kansra, P., & Jha, A. K. (2016). Measuring service quality in Indian hospitals: an analysis of SERVQUAL model. In Int. J. Services and Operations Management, 24(1).
- Kaya, B., Behravesh, E., Abubakar, A. M., Kaya, O. S., & Orús, C. (2019). The Moderating Role of Website Familiarity in the Relationships Between e-Service Quality, e-Satisfaction and e-Loyalty. Journal of Internet Commerce, 18(4), 369–394. https://doi.org/10.1080/15332861.2019.1668658
- Kesharwani, A., Mani, V., Gaur, J., Wamba, S. F., & Kamble, S. S. (2021). Service Quality Measurement in Information Systems: An Expectation and Desire Disconfirmation Approach. Journal of Global Information Management, 29(6). https://doi.org/10.4018/JGIM.20211101.oa30
- Kettinger, W. J., & Lee, C. C. (2005). Zones of Tolerance: Alternative Scales for Measuring Information Systems Service Quality V JllCil KXZl ly Research Note Zones of Tolerance: Alternative Scales for measuring information systems Service Quality1. In Source: MIS Quarterly, 29(4).
- Khalifa, M., & Liu, V. (2007). Online consumer retention: Contingent effects of online shopping habit and online shopping experience. European Journal of Information Systems, 16(6), 780–792. https://doi.org/10.1057/palgrave.ejis.3000711
- Khan, M. A., Zubair, S. S., & Malik, M. (2019). An assessment of e-service quality, e-satisfaction, and e-loyalty: Case of online shopping in Pakistan. South Asian Journal of Business Studies, 8(3), 283–302. https://doi.org/10.1108/SAJBS-01-2019-0016
- Khan, S. A., Liang, Y., & Shahzad, S. (2015). An Empirical Study of Perceived Factors Affecting Customer Satisfaction to Re-Purchase Intention in Online Stores in China. Journal of Service Science and

- Management, 08(03), 291-305. https://doi.org/10.4236/jssm.2015.83032
- Kim, J. H., & Kim, C. (2010). E-service quality perceptions: A cross-cultural comparison of American and Korean consumers. Journal of Research in Interactive Marketing, 4(3), 257–275.
- Kim, M., Kim, J. H., & Lennon, S. J. (2006). Online service attributes available on apparel retail websites: An E-S-QUAL approach. Managing Service Quality, 16(1), 51–77. https://doi.org/10.1108/09604520610639964
- Kitapci, O., Akdogan, C., & Dortyol, İ. T. (2014). The Impact of Service Quality Dimensions on Patient Satisfaction, Repurchase Intentions, and Word-of-Mouth Communication in the Public Healthcare Industry. Procedia-Social and Behavioral Sciences, 148, 161–169. https://doi.org/10.1016/j.sbspro.2014.07.030
- Komara, A., & Ariningrum, H. (2013). Analisis faktor-faktor yang mempengaruhi kinerja sistem informasi akuntansi. Jurnal Riset Akuntansi Dan Manjemen, 2(1), 2
- Kopalle, P.K., Lehmann, D.R., 2001. Strategic management of expectations: the role of disconfirmation sensitivity and perfectionism. J. Market. Res, 38 (3), 386–394.
- Kotler, P. (2000). Marketing Management, Millenium Edition. www.pearsoncustom.com
- Krejcie, R. V, & Morgan, D. W. (1970). Determining sample size for research activities. Educational and Psychological Measurement, 30.
- Kumar, M., Ramaswamy, V., Mathan Kumar, V. & Velmurugan, R. (2017). Customer Satisfaction Towards Online Shopping in Coimbatore District. *International Journal of Pure and Applied Mathematics*, 117(15), 41–49.
- Leonnard. (2019). Exploring the relationship among e-service quality, e-trust, e-satisfaction, and loyalty at higher education institutions. Journal on Efficiency and Responsibility in Education and Science, 12(4), 103–110. https://doi.org/10.7160/eriesj.2019.120401
- Libaque-Sáenz, C. F., Wong, S. F., Chang, Y., & Bravo, E. R. (2021). The effect of Fair information practices and data collection methods on privacy-related behaviors: A study of Mobile apps. Information and Management, 58(1). https://doi.org/10.1016/j.im.2020.103284
- Liu, V., & Khalifa, M. (2003). Determinants of Satisfaction at Different Adoption Stages of Internet-Based Services. Journal of the Association for Information Systems, 4(1), 206–233. https://doi.org/10.17705/1jais.00039
- Loiacono, E. T., & Watson, R. T. (2002). Webqual: a measure of website quality 1.
- Luther, L., Tiberius, V., & Brem, A. (2020). User experience (UX) in business, management, and psychology: A bibliometric mapping of the current state of research. Multimodal Technologies and Interaction, 4(2). https://doi.org/10.3390/mti4020018
- Madrigal, R. (1995). Cognitive and Affective Determinants of Fan Satisfaction with Sporting Event Attendance. Journal of Leisure Research, 27(3), 205–227. https://doi.org/10.1080/00222216.1995.11949745
- Mahadevan, A., Monther, W., & Mahadevan, A, (2019). The impact of Service Quality on Customer Satisfaction: A Study of Arab restaurants in Malaysia.
- Mamakou, X. J., Zaharias, P., & Milesi, M. (2023). Measuring customer satisfaction in electronic commerce: the impact of e-service quality and user experience. International Journal of Quality and Reliability Management. https://doi.org/10.1108/IJORM-07-2021-0215
- Malaysia Market Research. (2023). The rise of online food delivery services in Malaysia. Current Trends in Online Food Delivery Services in Malaysia. https://www.malaysiamarketresearch.com/insight/the-rise-of-online-food-delivery-services-in-malaysia
- Matolo, R.J. and Salia, P.J. (2021). International tourists'satisfaction with service quality at Serengeti National Park in Tanzania, Journal of Co-operative and Business Studies (JCBS), 6(2).
- Mohd Yusrizal, R. (2022, July 29). Department of Statistics Malaysia. https://www.dosm.gov.my/portal-main/release-content/current-population-estimates-malaysia-2022
- Mongdong, V. G. & Tumewu, F. J. (2015) Analyzing the Effect of Marketing Mix, Service Quality and Brand Equity on Consumer Buying Decision. Journal EMBA, 3(2).
- Muhammad Maladi, N. N. A. F. (2019). The Impact of Service Quality, Company Image and Switching Barrier on Customer Retention: Mediating Role of Customer Satisfaction. International Journal of Applied Business & International Management, 4(3), 58–64. www.ejournal.aibpm.or/IJABIM
- Mustafa. (2011). Determinants of E-Commerce Customer Satisfaction, Trust, and Loyalty in Saudi Arabia Eid:
  Determinants of E-Commerce Customer Satisfaction, Trust, and Loyalty in Saudi Arabia determinants
  of e-commerce customer satisfaction, trust, and loyalty in Saudi Arabia.

- https://www.researchgate.net/publication/228867201
- Nguyen, D.H., de Leeuw, S. and Dullaert, W.E. (2018). Consumer behavior and order fulfillment in online retailing: a systematic review", International Journal of Management Reviews, 20(2), 255-276.
- Nugroho, R. A., & Suprapti, N. W. S. (2022). The Role of Customer Engagement in Mediating the Influence of Brand Experience and Customer Satisfaction on the Customer Loyalty of Full-Service Airlines in Indonesia. Journal of Business and Management Review, 3(2), 138–157. https://doi.org/10.47153/jbmr32.3132022
- Nunnally, J.C. (1978). Psychometric Theory, 2nd ed., Mcgraw Hill Book Company, New York.
- Nursiva, R.T. (2021). The effect of service quality on member satisfaction mediated by cooperative image: Indonesia", Jurnal Pendidikan Ekonomi, Perkantoran, Dan Akuntansi-JPEPA, 2(2), 199-217.
- Oliver, R. L., & Desarbo, W. S. (1988). Response Determinants in Satisfaction Judgments. Journal of Consumer Research, 14(4). http://www.jstor.orgURL:http://www.jstor.org/stable/2489156Accessed:20-03-201522:48UTChttp://www.jstor.org/page/info/about/policies/terms.jsp
- Oliver, R. (2014). Satisfaction: A Behavioral Perspective on The Consumer. New York: Routledge.
- Ou, W. M., Shih, C. M., Chen, C. Y., & Wang, K. C. (2011). Relationships among customer loyalty programs, service quality, relationship quality, and loyalty: An empirical study. Chinese Management Studies, 5(2), 194–206. https://doi.org/10.1108/17506141111142825
- Parasuraman, A., Zeithaml, V. A., & Berry, L. L. (1985). A Conceptual Model of Service Quality and Its Implications for Future Research. Journal of Marketing, 49(4), 41. https://doi.org/10.2307/1251430
- Parasuraman, A., Zeithaml, V. A., & Malhotra, A. (2005). E-S-QUAL is a multiple-item scale for assessing electronic service quality. Journal of Service Research, 7(3), 213–233. https://doi.org/10.1177/1094670504271156
- Park, E. (2019). Motivations for customer revisit behavior in online review comments: Analyzing the role of user experience using big data approaches. Journal of Retailing and Consumer Services, 51, 14–18. https://doi.org/10.1016/j.jretconser.2019.05.019
- Petnji Yaya, L. H., Marimon, F., & Casadesús, M. (2017). The expert experience in adopting the E-S-QUAL scale. Total Quality Management and Business Excellence, 28(11–12),1307–1321.
- Phillips, D.M., Baumgartner, H., (2002). The role of consumption emotions in the satisfaction response. J. Consum. Psychol. 12(3), 243–252.
- Pigatto, G., Machado, J. G. de C. F., Negreti, A. dos S., & Machado, L. M. (2017). Have you chosen your request? Analysis of online food delivery companies in Brazil. British Food Journal, 119(3), 639–657. https://doi.org/10.1108/BFJ-05-2016-0207
- Poushneh, A., & Vasquez-Parraga, A. Z. (2017). Discernible impact of augmented reality on retail customer's experience, satisfaction, and willingness to buy. Journal of Retailing and Consumer Services, 34, 229–234. https://doi.org/10.1016/j.jretconser.2016.10.005
- Pushparaja, V., Yusoff, R.C.M., Maarop, N., Shariff, S.A. and Zainuddin, N.M. (2021). User experience factors that influence users' satisfaction of using the digital library, *Open International Journal of Informatics*, 9(1), 28-36.
- Puspasari, A., Nurhayaty, E., Riftiasari, D., YUniarti, P. Suhayardi, D., & Martiwi, R. (2022). The Effect of Service Quality Perception and Company Image On Customer Satisfaction and Their Impact on Customer Loyalty. International Journal of Social and Management Studies.
- Radziszewska, A. (2018). Quality Assessment of E-Commerce Service in the Context of Customer Experiences. Multidisciplinary Aspects of Production Engineering, 1(1), 635–640. https://doi.org/10.2478/mape-2018-0080
- Rafiq, M., Lu, X., & Fulford, H. (2012). Measuring Internet retail service quality using E-S-QUAL. Journal of Marketing Management, 28(9–10), 1159–1173. https://doi.org/10.1080/0267257X.2011.621441
- Ranganathan, C., & Ganapathy, S. (2001). Key dimensions of business-to-consumer websites. www.priceline.com
- Raza, S. A., Umer, A., Qureshi, M. A., & Dahri, A. S. (2020). Internet banking service quality, e-customer satisfaction, and loyalty: the modified e-SERVQUAL model. TQM Journal, 32(6), 1443–1466. https://doi.org/10.1108/TQM-02-2020-0019
- Riaz, A., Hanif, M., & Hafeez, S. (2010). Factors Affecting Customer Satisfaction. In International Research Journal of Finance and Economics. http://www.eurojournals.com/finance.htm
- Rita, P., Oliveira, T., & Farisa, A. (2019). The impact of e-service quality and customer satisfaction on customer behavior in online shopping. Heliyon, 5(10). https://doi.org/10.1016/j.heliyon.2019.e02690

- Ritonummi, S., & Niininen, O. (2021). User experience of an e-commerce website: A case study. In Contemporary Issues in Digital Marketing (61–71). https://doi.org/10.4324/9781003093909-8
- Rodgers, W., Negash, S., & Suk, K. (2005). The moderating effect of online experience on the antecedents and consequences of online satisfaction. Psychology and Marketing, 22(4), 313–331.
- Roto, V., Law, E., Vermeeren, A., & Hoonhout, J. (2011). User Experience White Paper Bringing clarity to the concept of user experience. www.allaboutux.org/ux-definitions.
- Sahadev, S., & Purani, K. (2008). Modelling the consequences of e-service quality. Marketing Intelligence and Planning, 26(6), 605–620. https://doi.org/10.1108/02634500810902857
- San, W. H., Von, W. Y., & Muhammad Imran Qureshi. (2020). The Impact of E-Service Quality on Customer Satisfaction in Malaysia. Journal of Marketing and Information Systems, 3(1), 46–62.
- Santika, I. W., & Pramudana, K. A. S. (2018). Peran Mediasi E-Satisfaction pada Pengaruh E-Service Quality terhadap ELoyalty Situs Online Travel di Bali. INOBIS: Jurnal Inovasi Bisnis dan Manajemen Indonesia, 1(3), 278-289.
- Santos, J. (2003). E-service quality: a model of virtual service quality dimensions", Managing Service Quality: International Journal, 13(3), 233-246, doi: 10.1108/09604520310476490.
- Şenel, B., Şenel, M., Gümüştekin, G. E. (2012). According to E-Service Quality, Evaluated Virtual Shopping Sites, Dumlupınar University Journal of Social Sciences, (33).
- Shao, Z., Zhang, L., Chen, K., & Zhang, C. (2020). Examining user satisfaction and stickiness in social networking sites from a technology affordance lens: uncovering the moderating effect of user experience. Industrial Management and Data Systems, 120(7), 1331–1360. https://doi.org/10.1108/IMDS-11-2019-0614
- Sarwar, H. (2016). Importance of Service Quality in Customer Satisfaction (A Study on Fast Food) Restaurants. Entrepreneurship and Innovation Management Journal. 4(4).
- Shujaa Alotaibi, R. (2021). Understanding Customer Loyalty of M-Commerce Applications in Saudi Arabia. International Transaction Journal of Engineering, 12(6), 1–12.
- Shukla, S. (2014). Teaching Competency, Professional Commitment and Job Satisfaction Study of Primary School Teachers, 4(3). www.iosrjournals.org
- Singh Shergill, G., Shergill, G. S., & Chen, Z. (2005). Web-based shopping: consumers' attitudes towards online shopping in New Zealand. In Journal of Electronic Commerce Research, 6(2). https://www.researchgate.net/publication/228620838
- Statista. (2023). Online food delivery-Malaysia: Statista market forecast. https://www.statista.com/outlook/dmo/online-food-delivery/malaysia
- Su, D. N., Nguyen-Phuoc, D. Q., Duong, T. H., Dinh, M. T. T., Luu, T. T., & Johnson, L. (2022). How does the quality of mobile food delivery services influence customer loyalty? Gronroos's service quality perspective. International Journal of Contemporary Hospitality Management, 34(11), 4178–4205.
- Suhartanto, D., Helmi Ali, M., Tan, K. H., Sjahroeddin, F., & Kusdibyo, L. (2019). Loyalty toward online food delivery service: the role of e-service quality and food quality. Journal of Foodservice Business Research, 22(1), 81–97. https://doi.org/10.1080/15378020.2018.1546076
- Tobagus, A. (2018). Pengaruh E-Service Quality Terhadap E-Satisfaction Pada Pengguna Di Situs Tokopedia. AGORA, 1-10.
- Udo, G. J., Bagchi, K. K., & Kirs, P. J. (2010). An assessment of customers' e-service quality perception, satisfaction, and intention. International Journal of Information Management, 30(6), 481–492.
- Uma Sekaran. (2013). Research Methods for Business A Skill-Building Approach. www.wileypluslearningspace.com
- Uzir, M. U. H., Jerin, I., Al Halbusi, H., Hamid, A. B. A., & Latiff, A. S. A. (2020). Does quality stimulate customer satisfaction where perceived value mediates and the usage of social media moderates? Heliyon, 6(12). https://doi.org/10.1016/j.heliyon.2020.e05710
- Valdez-Juárez, L. E., Gallardo-Vázquez, D., & Ramos-Escobar, E. A. (2021). Online buyers and open innovation: Security, experience, and satisfaction. Journal of Open Innovation: Technology, Market, and Complexity, 7(1), 1–24. https://doi.org/10.3390/joitmc7010037
- Van Der Wal, R.W.E., Pampallis, A., & Bond, C. (2002). Service quality in a cellular telecommunications company: A South African experience. *Managing Service Quality: An International Journal*, 12(5), 323–335.
- Venkatesh, V., Thong, J. Y. L., & Xu, X. (2012). Consumer acceptance and use of information technology: Extending the unified theory of acceptance and use of technology. MIS Quarterly: Management Information Systems, 36(1), 157–178. https://doi.org/10.2307/41410412

- Vesel, P., & Zabkar, V. (2009). Managing customer loyalty through the mediating role of satisfaction in the DIY retail loyalty program. Journal of Retailing and Consumer Services, 16(5), 396–406.
- Wang, Y. S., Tseng, T. H., Wang, W. T., Shih, Y. W., & Chan, P. Y. (2019). Developing and validating a mobile catering app success model. International Journal of Hospitality Management, 77, 19–30.
- Wang, Y. S., Wang, Y. M., Lin, H. H., & Tang, T. I. (2003). Determinants of user acceptance of Internet banking: An empirical study. International Journal of Service Industry Management, 14(5), 501–519.
- Wen, H. Pookulangara, S. & Josiam, B, M. (2022). A Comprehensive Examination on Consumers Intentions to use Food Delivery Apps. British Food Journal, 124(5), 1737-1754.
- Wayan, S. (2018). Peran Mediasi E-Satisfaction Pada Pengaruh E-Service Quality Terhadap E-Loyalty Situs Online Travel di Bali. Jurnal Inovasi Bisnis Dan Manajemen Indonesia, 1(3).
- Widiaputri, Y. S., Suharyono, S., & Bafadhal, A. S. (2018). Pengaruh E-Service Quality Terhadap Perceived Value Dan ECustomer Satisfaction (Survei Pada Pelanggan Go-Ride Yang Menggunakan Mobile Application Go-Jek Di Kota Malang). Jurnal Administrasi Bisnis, 61(1), 1-10.
- Wolfinbarger, M., & Gilly, M. C. (2003). eTailQ: Dimensionalizing, measuring, and predicting retail quality. Journal of Retailing, 79(3), 183–198. https://doi.org/10.1016/S0022-4359(03)00034-4
- Xu, X., Zeng, S., & He, Y. (2017). The influence of e-services on customer online purchasing behavior toward remanufactured products. International Journal of Production Economics, 187, 113–125.
- Yaşin, B., Özkan, E., Baloğlu, S. (2017). The Role of Consumers' Satisfaction, Trust and Perceived Quality on Loyalty to Online Retail Sites, İstanbul Management Journal, 28(83), 24-47.
- YellowBees. (2021). Top 12 food delivery platforms for F&B merchants in Malaysia. Yellow Bees. https://www.yellowbees.com.my/top-food-delivery-platforms-malaysia/
- Yi, H. T., Yeo, C. K., Amenuvor, F. E., & Boateng, H. (2021). Examining the relationship between customer bonding, customer participation, and customer satisfaction. Journal of Retailing and Consumer Services, 62. https://doi.org/10.1016/j.jretconser.2021.102598
- Yi, Y., Nataraajan, R., (2018). Customer satisfaction in Asia. Psychol. Market. 35 (6), 387–391.
- Yıldız, B. (2020). The Effect of E-Commerce Logistics Service Quality on Trust, Satisfaction and Loyalty, Giresun University Journal of Economic and Administrative Sciences, 6(1), 38-61.
- Yin, A. C. P. (2021, October 25). KPDNHEP sets up a dedicated channel for complaints on food delivery services. RinggitPlus. https://ringgitplus.com/en/blog/personal-finance-news/kpdnhep-sets-up-dedicated-channel-for-food-delivery-complaints.html
- Yoo, B., & Donthu, N. (2001). Developing and validating a multidimensional consumer-based brand equity scale. Journal of Business Research, 52(1), 1–14. https://doi.org/10.1016/S0148-2963(99)00098-3
- Yoo, B., & Donthu, N. (2001). Developing a Scale to Measure the Perceived Quality of an Internet Shopping Site (PQISS). In Developments in Marketing Science: Proceedings of the Academy of Marketing Science (p. 471). Springer Nature. https://doi.org/10.1007/978-3-319-11885-7\_129
- Zeithaml, V. A. (1988). Consumer Perceptions of Price, Quality, and Value: A Means-End Model and Synthesis of Evidence. Journal of Marketing, 52(3), 2–22. https://doi.org/10.1177/002224298805200302
- Zeithaml, V. A., Parasuraman, A., & Malhotra, A. (2002). Service quality delivery through websites: A critical review of extant knowledge. *Journal of the Academy of Marketing Science*, 30(4), 362–375.
- Zeithaml, Valarie A., Bitner, Mary Jo and Dwayne D. Gremler. (2013). Services Marketing. Integrating Customer Focus across the Firm, 6th Edition, New York: McGraw-Hill Irwin.
- Zhang, K. Z. K., Zhao, S. J., Cheung, C. M. K., & Lee, M. K. O. (2014). Examining the influence of online reviews on consumers' decision-making: A heuristic-systematic model. Decision Support Systems, 67, 78–89. https://doi.org/10.1016/j.dss.2014.08.005
- Zhou, R., Wang, X., Shi, Y., Zhang, R., Zhang, L., & Guo, H. (2019). Measuring e-service quality and its importance to customer satisfaction and loyalty: an empirical study in a telecom setting. Electronic Commerce Research, 19(3), 477–499. https://doi.org/10.1007/s10660-018-9301-3
- Zhuang, W., & Babin, B. J. (2015). The influence of e-service-quality on customer value perception and satisfaction: the case of third-party web sites.