UNDERSTANDING THE ROLE OF CUSTOMER TRUST IN E-COMMERCE

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ABSTRACT

Trust is a big part of how well e-commerce works and it is also a big part of how people decide what to buy. As more and more business is done online, companies that want to build customer loyalty and involvement must understand the complex relationship between trust and e-commerce. This study paper looks at the many distinct aspects of trust in e-commerce and how it affects people's actions. By looking at the various aspects and causes of trust and how to build and keep trust, this study shows how businesses can create a trustworthy online environment that makes customers happier and leads to long-term success.

KEYWORDS

e-commerce, online purchasing, trust, customer loyalty, data privacy

1. INTRODUCTION

For e-commerce platforms to be successful, trust is essential. Unlike traditional storefronts, online purchasing mostly depends on trust, where buyers may speak with merchants face-to-face and inspect things. Customers must have faith in the sellers to fulfil their promises, the things they buy to live up to their expectations, and the security of their personal and financial information. Since there is no personal interaction, customers feel vulnerable when shopping online. They can be worried about the quality of the products, dishonest business practices, privacy and security, delivery dependability, and customer service. These worries make them less likely to conduct business online, which could cost businesses sales opportunities. For businesses to succeed in the digital marketplace, it is crucial to recognize and address the elements that affect trust in e-commerce. By increasing trust, businesses can increase revenue, draw in new clients, keep existing ones, and cultivate enduring relationships with their target market. Trust is a crucial factor that impacts online consumer behaviour and e-commerce success. Therefore, it is imperative to understand the role of trust in e-commerce and explore ways to enhance it.

This study focuses on trust in online business transactions and emphasizes important findings from a previous literature assessment. Customer trust can be influenced by several factors, including the design of a website, its usability, the availability of transparent pricing, and the availability of simple return policies. Building trust requires both the reputation of an organization and the acceptance of its peers. Trust can also be increased using secure payment methods, SSL encryption, and transparent privacy rules. Customers are more likely to do business with vendors they trust, and sustained success depends on satisfied customers who return and help promote positive word-of-mouth.

Concerns about the abuse or theft of personal information can lead to a lack of trust; nonetheless, businesses have a responsibility to take safeguards to secure customer information and respect

customers' right to privacy. Adopting innovative technology such as blockchain, artificial intelligence, and virtual reality can boost customer confidence in online transactions, resulting in an overall enhanced shopping experience.

2. METHODOLOGY

We used the Systematic literature review (SLR) methodology to collect and analyse existing literature for this research paper. The research was conducted by searching for relevant studies and articles from academics. This study, which examines the role of trust in e-commerce, intends to learn more about how trust works in the age of digital commerce and give businesses suggestions on how to acquire and maintain customers' trust.

2.1. Research Design

To compile and evaluate the body of knowledge already available about trust in e-commerce, this study employed a systematic literature review (SLR) technique. SLR, a rigorous method that seeks to locate, evaluate, and synthesize relevant research studies, helps researchers grasp the topic.

2.2. Search Strategy

For the research, relevant studies and papers were looked up in scholarly databases like Scopus and Google Scholar. The following keywords are used in the search: "Trust in E-commerce," "User Trust in E-Commerce," and "Effect on E-Trust,". Peer-reviewed publications from a particular time are included in the search. The inclusion criteria for choosing studies consider things like relevance to the research topic, peer-reviewed status, publication within a certain date, and accessibility to full-text articles. Studies were not accepted if they didn't fit these requirements.

2.3. Data Extraction

Using a standardized data extraction form, pertinent data was culled from a few chosen studies. Authors, the year of publication, aims and methods of the study, major discoveries, and conclusions were all included in the extracted data.

2.4. Data Analysis

The obtained data were analysed thematically to pinpoint important themes, ideas, and trends associated with the function of trust in e-commerce. The study combined the results from many studies and pinpointed overlaps, differences, and research gaps.

Table 1. Systematic literature review

Identification	Screening	Eligibility	Included Studies
After scouring academic databases (IEEE, ResearchGate, Google Scholar) with a set of keywords relating to "Trust in E-commerce," "User Trust in E-Commerce," "Effect on E-Trust," a total of 418 articles were located	After eliminating duplicates, we reviewed the titles and abstracts of 254 papers. As a result of not meeting the inclusion criteria, 100 items were discarded at this point.	The entire texts of the remaining 64 articles were evaluated for inclusion. 15 articles were discarded for various reasons, including a lack of relevance to the research questions or a lack of emphasis on Trust in E-commerce and Effect on E-Trust.	In the end, 22 papers fulfilled the criteria for inclusion in the systematic literature review. Relevant information and data were extracted from this research after careful analysis.

3. LITERATURE REVIEW

The studies were looked for in the Scopus and Google Scholar databases. using key search terms like "Trust in E-commerce; User Trust in E-commerce; Effect on E-trust; literature review." Peer-reviewed.

Trust in e-commerce is a multifaceted idea with many psychological and behavioural elements. In the world of e-commerce, "trust" means that customers have faith that an online seller or platform will meet their needs and look out for their best interests. It means trusting the seller's credibility, skill, honesty, and kindness.

3.1. Building Trust in E-Commerce

For e-commerce platforms to draw and keep customers, they must be seen as trustworthy. Kim et al. (2016) found that how a website looks, how easy it is to use, and how honest it greatly affects how customers trust e-commerce platforms. Ha et al. (2017) say that clear return policies, safe payment gateways, and clear pricing help build trust.

3.2. Reputation and Social Proof

Reputation is one of the most important ways e-commerce builds trust. People often use reviews and customer scores to determine if they can trust a seller or product. (Cheung et al., 2008;) found that positive reviews, high ratings, and endorsements from trustworthy sources affect customers' trust and decisions about what to buy.

3.3. Trust in Online Transactions

Building trust still heavily relies on ensuring the security and privacy of online transactions. To allay customer concerns, studies have shown the value of secure payment gateways, SSL encryption, and open privacy policies (Hsieh et al., 2021;). It has been demonstrated that third-party certifications and seals, including trust marks and badges, favour consumer trust in online transactions. These accreditations indicate dependability and trustworthiness (Hossain et al., 2021;). Many different tactics have been suggested to increase confidence in online transactions. A few of them are providing thorough product information, offering guarantees or warranties, and putting secure payment mechanisms in place (Vukovi et al., 2021;).

3.4. Trust's Effects on Purchase Intentions and Behaviour

Trust directly affects what customers want to buy and how they act when shopping online. Studies have shown that people are more likely to buy from sellers and sites they trust (Koufaris, 2002). Higher confidence levels are linked to more online shopping, bigger shopping carts, and a higher conversion rate (Keiningham et al., 2019;). Gefen (2000) says that trust is also a big reason why customers buy from you again and why you can keep them for a long time. According to Cyr et al. (2007), consumers' trust in e-commerce platforms is significantly affected by their perception of the quality of websites they visit, including the visual design, usability, and information quality. Customers are more likely to place their trust in a company with a website that is aesthetically pleasing and simple to navigate. Regarding e-commerce, individuals' intentions to make purchases are influenced favourably by trust. According to Gefen et al. (2000) findings, trust and the desire to make a purchase is a significant and favourable connection. Higher levels of trust give customers more confidence in the online retailers they shop with, increasing their propensity to purchase.

3.5. Consumer Loyalty

Building customer loyalty in e-commerce is about building trust. Trustworthy e-commerce sites make shopping a pleasant experience, which makes customers happy and keeps them coming back. Kim et al. (2014) found that loyal customers are more likely to tell others about the platform, which boosts its image and brings in new customers. Loyal customers make more repeat purchases, contributing to the long-term income and profitability of e-commerce enterprises (Liu et al., 2016). Regarding e-commerce, providing excellent customer service is one of the key factors in retaining customers. According to Srinivasan et al. (2018), providing prompt and effective customer care, personalized assistance, and excellent complaint resolution all benefit customer loyalty.

3.6. Reducing Risk Perception

When consumers do business online, there is always an amount of risk perception. Trust reduces risks by making things less uncertain and giving people more trust in buying decisions (Pavlou, 2003). Trustworthy e-commerce platforms take steps to deal with risk factors, such as giving full product descriptions, offering warranties, and making it easy to return items. The need to provide accurate and thorough product information, including in-depth descriptions and photographs, was emphasized by Choi and Kim (2020). They also emphasized the importance of open return policies and customer support in lowering perceived risk and fostering trust. According to McKnight et al. (2002), increasing customer loyalty can be accomplished by establishing trust using secure payment systems and privacy protection measures.

3.7. Trust in Emerging Technologies

Increased consumer confidence in online transactions may be possible with the help of blockchain technology. Transparency in supply chains, product identification, and secure transactions are all possible thanks to their decentralised and immutable nature (Fan et al., 2020). Blockchain technology might be implemented on e-commerce sites to verify the legitimacy of products and increase customer confidence in their purchases. AI-driven tools can help fight fraud and boost confidence in online transactions. Users' actions can be analysed by sophisticated algorithms to spot fraud or fake goods. Using AI-based solutions to automate fraud detection, e-commerce platforms can lessen the likelihood of fraudulent transactions and increase users' confidence in the site. Building trust requires enhancing the validity and veracity of online

reviews and ratings. E-commerce platforms can use verification processes to ensure that genuine customers publish reviews. Chatbots, virtual assistants, and immersive experiences powered by artificial intelligence are examples of how emerging technologies can make information transmission more open, accurate, and accessible (Ngai et al., 2021).

3.8. Trust Recovery Strategies

The safety of their private and financial information is a major issue for online shoppers. The widespread occurrence of data breaches and identity theft has caused users to lose faith in Internet services. To combat this issue, e-commerce companies should use stringent security measures, including encryption and two-factor authentication (Chan & Mishra, 2022). When trust is broken, e-commerce platforms need effective ways to rebuild customer trust. It is essential to invest in strong cybersecurity measures and ensure that the technological infrastructure is secure to regain trust. According to Pavlou et al. (2019), addressing customer concerns over data breaches and privacy can be aided by implementing encryption, using secure payment channels, and the routine updating of security measures. According to Gommans et al. (2018), providing consumers with responsive and effective customer service can help minimize the negative impacts of trust violations and reestablish consumer confidence.

4. RESULT

Based on the literature review conducted above the figure for the role of trust in e-commerce is constructed.
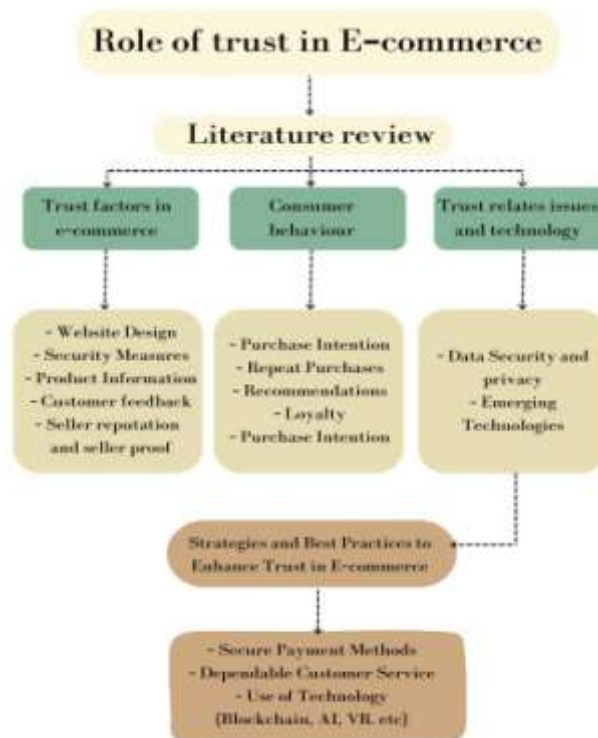

Figure 1. Role of Trust in E-Commerce

5. LIMITATIONS

5.1. Time Dependence

The literature evaluation is based on existing studies that were accessible at the time of the study cutoff date. Because the e-commerce landscape and technologies are constantly evolving, the findings may not accurately reflect the status of e-commerce confidence. The review may not sufficiently reflect new developments and trends in the industry.

5.2. Lack of Primary Research

The research report is purely based on a systematic literature review, with no primary research or empirical data. While the review contains useful insights from current studies, it may lack direct observations and viewpoints from e-commerce consumers and businesses.

5.3. Limited Recommendations

While the research paper strives to advise businesses to improve e-commerce trust, the recommendations may not be thorough or targeted to certain industries or business circumstances. More research and case studies are required to generate more specific and practical recommendations for establishing and maintaining confidence in e-commerce.

6. CONCLUSIONS

E-commerce can only thrive with consumers' faith in their purchases. The purpose of this research was to examine the various facets of trust in online commerce and the effects it has on shoppers. Key facts and insights have been obtained through a systematic literature study to provide a holistic picture of trust in e-commerce. The results show that several elements, such as website layout, safety precautions, product details, customer feedback, and seller reputation, all play a role in establishing consumer confidence in online shopping. These elements significantly influence consumers' trust and confidence in online platforms. The appearance of a website, its ease of use, and the openness of its policies are all factors in establishing credibility in the eyes of its visitors.

Trust is built in part through a person's reputation and social proof, such as recommendations from others. Customers often look at the reviews and feedback of others before making a purchase. Furthermore, guaranteeing the security and privacy of personal and financial information is intimately tied to fostering confidence in online transactions. Trust can be established using trusted payment processors, SSL encryption, and open privacy policies. Trust shapes consumer actions, including consideration, conversion, and advocacy. The more confident customers are on a website, the more likely they will purchase. To increase client retention and generate new business, companies must prioritize earning their customers' trust. Businesses can use various methods and best practices to boost consumers' confidence in online transactions. Provide safe methods of payment, clear guidelines, and trustworthy service. Incorporating state-of-the-art technologies like blockchain, AI, and VR can further strengthen credibility and elevate the standard of service for online buyers. This research sheds light on why trust is so crucial to the success of online businesses and how different elements affect consumers' willingness to shop online. Businesses may establish credibility in the digital space, build loyal customer bases, and thrive overall if they consider these considerations.

REFERENCES

[1]   Gefen, D., & Straub, D.W. (2000). The Relative Importance of Perceived Ease of Use in IS Adoption: A Study of E-Commerce Adoption. J. Assoc. Inf. Syst., 1, 8.
[2]   Gefen, D. (2000). E-commerce: the role of familiarity and trust. Omega, 28(6), 725-737.
[3]   Cheung, C. M., Lee, M. K., &Rabjohn, N. (2008). The impact of electronic word-of-mouth: The adoption of online opinions in online customer communities. Internet research, 18(3), 229-247.
[4]   Ha, S., Stoel, L., & Lee, M. (2017). The effect of website perceptions on purchase intention: The role of trust, usability, and design aesthetics. Journal of Business Research, 70, 200-210R. Nicole, "Title of paper with only first word capitalized," J. Name Stand. Abbrev., in press.
[5]   Kim, S., Ferrin, D. L., & Rao, H. R. (2014). A trust-based consumer decision-making model in electronic commerce: The role of trust, perceived risk, and their antecedents. Decision support systems, 57, 242-253.
[6]   Kim, S., Park, H., & Ryu, K. (2016). Role of trust in customer online shopping behaviour: Trust building measures in the context of electronic commerce. In 2016 49th Hawaii International Conference on System Sciences (HICSS) (pp. 507-516). IEEE.
[7]   Koufaris, M. (2002). Applying the technology acceptance model and flow theory to online consumer behaviour. Information Systems Research, 13(2), 205-223.
[8]   Keiningham, T. L., Cooil, B., Aksoy, L., Andreassen, T. W., & Williams, L. (2019). How e-commerce changes consumer behaviour. Journal of Business Research, 96, 267-276.
[9]   Choi, S. M., & Kim, Y. K. (2020). Factors influencing consumers' trust in e-commerce: A systematic review. Frontiers in Psychology, 11, 1627.
[10]   Liu, Y., Li, H., & Hu, F. (2016). Website attributes in urging online impulse purchase: An empirical investigation on consumer perceptions. Decision Support Systems, 83, 57-65.
[11]   McKnight, D. H., Choudhury, V., &Kacmar, C. (2002). Developing and validating trust measures for e-commerce: An integrative typology. Information Systems Research, 13(3), 334-359.
[12]   Fan, K., Wang, S., Ren, Y., Li, J., & Liu, X. (2020). Research on the Application of Blockchain Technology in E-commerce Trust Enhancement. IEEE Access, 8, 137846-137857.
[13]   Hsieh, J. P. A., Wu, Y. H., & Tang, C. H. H. (2021). Understanding the determinants of consumers' perceived security and satisfaction in mobile commerce. Journal of Business Research, 132, 514-524.
[14]   Chan, J. S., & Mishra, A. (2022). Strengthening Security Measures in E-commerce: A Review of Encryption and Two-Factor Authentication. Journal of Internet Commerce, 21(1), 47-63.
[15]   Hossain, M. M., Sharif, A. M., & Al Mahmud, A. (2021). The impact of trust seals on consumers' online purchase intention: The mediating role of trust. International Journal of Electronic Commerce, 25(2), 191-219.
[16]   Vuković, V., Ćurčić, N., &Soro, M. (2021). E-commerce websites' attributes and online shopping intentions: A systematic review of the empirical literature. Computers in Human Behaviour, 119, 106725.
[17]   Pavlou, P. A. (2003). Consumer acceptance of electronic commerce: Integrating trust and risk with the technology acceptance model. International journal of electronic commerce, 7(3), 101-134.
[18]   Pavlou, P. A., Zhang, C., &Chellappa, R. K. (2019). Privacy calculus in the context of online services: A customer-centric approach. Journal of the Association for Information Systems, 20(7), 938-966.
[19]   Cyr, D., Hassanein, K., Head, M., & Ivanov, A. (2007). The role of social presence in establishing loyalty in e-Service environments. Interacting with Computers, 19(1), 43-56
[20]   Cyr, D., Hassanein, K., Head, M., & Ivanov, A. (2007). The role of social presence in establishing loyalty in e-Service environments. Interacting with Computers, 19(1), 43-56.
[21]   Ngai, E. W., Tao, S. S., & Moon, K. L. (2021). Blockchain-based electronic marketplaces for green consumers: An empirical analysis of trust, perceived value, and sustainable consumption behaviour. Journal of Business Research, 124, 140-149.
[22]   Gommans, M., Krishnan, K. S., &Scheffold, K. B. (2018). From brand loyalty to e-loyalty: A conceptual framework. Journal of Economic and Social Research, 3(1), 43-58