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# Strengthening Consumer Protection in Indonesia's E-Commerce: Legal Framework, Cyber Security, and Sustainable Digital Trust

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#### **Abstract**

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The rapid growth of e-commerce in Indonesia has significantly influenced economic development and transformed consumer behavior, while simultaneously creating new challenges in consumer protection. Issues such as aggressive marketing, information uncertainty, personal data breaches, cybercrime have highlighted the need for robust legal safeguards. The Consumer Protection Act (Undang-Undang tentang Perlindungan Konsumen/UUPK) and the Electronic Information and Transactions Act (Undang-Undang Informasi dan Transaksi Elektronik/UU ITE) provide a normative framework, reinforced by constitutional guarantees under Article 28G of the 1945 Constitution. However, effective implementation depends on consistent enforcement, strict oversight, and increased public awareness. This study emphasizes the importance of strengthening cyber security enhancing digital literacy, and collaboration among government, businesses, and society to ensure a safe and fair e-commerce ecosystem. Protecting consumer rights is not only a legal obligation but also a strategic approach to sustaining trust and loyalty in the digital marketplace, ensuring that economic progress is accompanied by security, justice, and long-term sustainability.

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#### 1. Introduction

The development of information and communication technology in the last two decades has triggered significant transformations in various aspects of life, including the economic sector and consumer behavior. One of the most tangible manifestations of this development is the emergence and rapid growth of electronic commerce (e-commerce), which has fundamentally changed the way producers, traders, and consumers interact. E-commerce not only provides opportunities for businesses to expand their markets without geographical boundaries, but also makes it easier for consumers to access various products and services quickly, efficiently, and conveniently. In Indonesia, the growth of e-commerce is supported by increasingly widespread internet penetration, the development of digital infrastructure, and a shift in public preferences towards online shopping activities. The shift from offline to online transactions is a global trend reinforced by changes in lifestyle, urbanization, and the need for time efficiency. The COVID-19 pandemic further accelerated this transition, as physical activity restrictions encouraged people to adapt to a digital-based consumption model.

However, behind the convenience and opportunities offered by e-commerce, there are various challenges and risks that need to be anticipated. Aggressive marketing strategies, manipulative practices in price offers, and the use of consumer

<sup>&</sup>lt;sup>1</sup> Md Azhad Hossain, Mahafuj Hassan, Rabeya Khatoon, Md Kamruzzaman, and Anupom Debnath. "Technological Innovations to Overcome Cross-Border E-Commerce Challenges: Barriers and Opportunities." *Journal of Business and Management Studies 2*, no. 2 (2020): 70-81.

<sup>&</sup>lt;sup>2</sup> Kasmad Ariansyah, Emyana Ruth Eritha Sirait, Badar Agung Nugroho, and Muhammad Suryanegara. "Drivers of and barriers to e-commerce adoption in Indonesia: Individuals' perspectives and the implications." *Telecommunications Policy* 45, no. 8 (2021): 102219.

psychology-based marketing techniques can cause emotional and psychological pressure. Consumers often feel pressured to make quick decisions for fear of missing out on the best offers, and it is not uncommon for them to feel deceived by unethical practices. Another no less important risk is the issue of privacy and personal data security. In the e-commerce ecosystem, consumer data becomes a strategic asset used to personalize services and enhance the user experience.<sup>3</sup>

However, if this data is not properly protected, it can open up opportunities for privacy violations, identity theft, or cybercrime. The relationship between privacy, data security, and consumer loyalty is very close: the more secure personal data is, the higher the level of consumer trust and loyalty towards the service provider. From a legal perspective, consumer protection in the digital era has been regulated through various laws and regulations. The Consumer Protection Law (UUPK) provides the legal basis for consumer rights, including the right to correct information, the right to safety, and the right to privacy. Meanwhile, the Electronic Information and Transactions Law (UU ITE) provides a legal umbrella for electronic transactions, including the obligation of electronic system operators to maintain the confidentiality and security of personal data. Furthermore, constitutional protection for the right to a sense of security is also contained in Article 28G paragraph (1) of the 1945 Constitution, which affirms every person's right to protection of their personal self, family, honor, dignity, and property.

<sup>&</sup>lt;sup>3</sup> Olalekan Hamed Olayinka. "Data driven customer segmentation and personalization strategies in modern business intelligence frameworks." *World Journal of Advanced Research and Reviews 12*, no. 3 (2021): 711-726.

The urgency of consumer protection in e-commerce is increasing with the development of cybercrime threats such as malware, ransomware, and phishing. These attacks not only cause financial losses, but can also damage the reputation of businesses and erode public trust in the digital ecosystem. Therefore, strengthening regulations, increasing legal awareness, and developing security technology are urgent needs to create a safe, fair, and sustainable e-commerce ecosystem. This research attempts to comprehensively examine the role of e-commerce in the transformation of the economy and consumer behavior, with a focus on the aspect of consumer protection in the digital era. By using a normative juridical research method, this study will analyze the relationship between the provisions of laws and regulations, the principles of consumer protection, and e-commerce practices in the field. The research results are expected to contribute to formulating effective consumer protection strategies, in line with technological developments and the demands of the times.

#### 2. Literature Review

The development of e-commerce in Indonesia has become a digital economic phenomenon that encourages structural changes in the trade of goods and services. According to research conducted by Hastuti and Jauhari,<sup>4</sup> e-commerce penetration in Southeast Asia is growing rapidly, with Indonesia as one of the largest markets. The main driving factors are advances in information technology, increased internet

<sup>4</sup> Ika Sri Hastuti and Asep Kusdiman Jauhari. "Middle economic growth towards to development of e-commerce in Southeast Asia." *Journal of Economic Empowerment Strategy (JEES)* 4, no. 1 (2021): 1-6.

access, and a shift in consumer preferences towards online shopping models. From a consumer behavior perspective, Faulds et al.<sup>5</sup> explain that convenience, speed, and personalization are three important elements that influence purchasing decisions in the digital era. E-commerce utilizes algorithms and big data to analyze consumption patterns, which allows for the implementation of more targeted marketing strategies, such as personal targeting and dynamic pricing. However, these strategies also pose risks to consumers, especially related to aggressive marketing and psychological manipulation.

In the legal aspect, Law No. 8 of 1999 concerning Consumer Protection (UUPK) is the main basis that guarantees consumer rights, including the right to correct information, the right to product safety, and the right to compensation for losses. Law No. 11 of 2008 in conjunction with Law No. 19 of 2016 concerning Electronic Information and Transactions (UU ITE) also regulates the obligation of electronic system operators to maintain the security of users' personal data. Furthermore, Article 28G paragraph (1) of the 1945 Constitution provides constitutional protection for every person's right to feel safe and protected from threats that endanger themselves, their families, and their property. In the context of e-commerce, this protection includes the security of personal data and protection from fraud or fraudulent practices.

<sup>&</sup>lt;sup>5</sup> David J. Faulds, W. Glynn Mangold, P. S. Raju, and Sarath Valsalan. "The mobile shopping revolution: Redefining the consumer decision process." *Business Horizons* 61, no. 2 (2018): 323-338.

The main challenge faced is the increase in cybercrime such as phishing, hacking, malware, and ransomware, which often targets consumer data. According to a BSSN report, cyberattacks in Indonesia have increased significantly, with the ecommerce sector being one of the main targets. Therefore, synergy is needed between strict regulations, the application of advanced security technology, and an increase in public digital literacy. This literature review shows that the success of ecommerce is not only determined by technological innovation and marketing strategies, but also highly dependent on legal certainty and consumer protection. The balance between freedom of business innovation and the protection of consumer rights is key to creating a sustainable e-commerce ecosystem.

#### 3. Method

This research uses a normative juridical research method, which is a method that focuses on the study of applicable legal norms, both those written in laws and regulations and those that develop in practice. This method was chosen to analyze the extent to which legal regulations in Indonesia are able to provide adequate protection to consumers in e-commerce transactions. In its application, this research uses three approaches. First, a statutory approach which is carried out by examining the provisions in the 1945 Constitution, the The Consumer Protection Law (UUPK), the Electronic Information and Transactions (UU ITE), as well as other implementing regulations related to consumer protection in the digital realm. The

<sup>6</sup> Sanne Taekema. "Theoretical and normative frameworks for legal research: Putting theory into practice." *Law and Method 2018*, no. 2 (2018): 1-17.

analysis in this approach is focused on regulations regarding consumer rights, business obligations, and dispute resolution mechanisms.

Second, a conceptual approach is used to examine key concepts such as consumer protection, data privacy, cyber security, and the relationship between legal protection and consumer loyalty. This approach functions to understand the theoretical basis underlying the urgency of consumer protection in the e-commerce era, so that it can connect legal theory and the reality that occurs in the field. Third, a case approach is used to examine cases of violations of consumer rights in the ecommerce sector. Sources used include court decisions, official reports from consumer protection agencies, and publications from government agencies such as National Consumer Protection Agency (Badan Perlindungan Konsumen Nasional/BPKN) and National Cyber and Crypto Agency (Badan Siber dan Sandi Negara/BSSN).

The legal material sources in this research consist of primary legal materials which include the 1945 Constitution, UUPK, UU ITE, Government Regulation No. 71 of 2019 concerning the Implementation of Electronic Systems and Transactions, as well as other relevant regulations. Secondary legal materials include books, scientific journals, articles, and research reports that discuss the topic of consumer protection and data security in e-commerce. Tertiary legal materials include legal dictionaries, encyclopedias, and other supporting sources that can enrich the analysis. Data analysis is carried out through legal interpretation techniques, including grammatical, systematic, and teleological interpretation, to find the meaning of legal norms and their relevance in the context of the rapid development

of e-commerce. With this method, the research is expected to provide a comprehensive picture of the suitability between existing regulations and the needs of consumer protection in the rapidly developing digital era.

#### 4. Results

### 4.1. The Role of E-Commerce in Economic Transformation and Consumer Behavior

E-commerce has become a very important driving force in the process of economic transformation in Indonesia, especially in the last decade. This rapid development cannot be separated from advances in digital technology that are able to change the way people interact, transact, and access various needs for goods and services. Through the use of this technology, e-commerce has succeeded in breaking down the geographical boundaries that previously limited market access, facilitating the process of distributing goods and services to various regions, and creating new business opportunities for business players, from micro, small, and medium enterprises (MSMEs) to large, established companies. The digital platform-based business model allows sellers and buyers to interact directly in an integrated system, thereby reducing operational costs, optimizing the supply chain, and accelerating the transaction process. This advantage encourages more and more

<sup>&</sup>lt;sup>7</sup> OK Mohammad Fajar Iksan, Rabiul Islam, Kamarul Azman Khamis, and Ariroza Sunjay. "Impact of digital economic liberalization and capitalization in the era of industrial revolution 4.0: Case study in Indonesia." *Problems and Perspectives in Management 18*, no. 2 (2020): 290.

business players to switch or expand their businesses to the digital realm, because the market reach that can be achieved is wider than conventional methods.

From a consumer perspective, changes in shopping behavior are very clear.8 Today's consumers tend to prioritize ease of access, fast delivery, a more diverse variety of products, and flexibility in payment methods. This trend is reinforced by the increasing penetration of the internet and smartphones across all levels of society, coupled with the support of continuously improving logistics infrastructure. According to data from the Asosiasi Penyelenggara Jasa Internet Indonesia (APJII), the number of internet users in Indonesia had exceeded 215 million people, most of whom use the internet to conduct online shopping activities. This behavioral shift does not only have an impact on the retail sector, but also triggers innovation in various related sectors, including the financial sector through digital payment and financial technology (fintech) services, the logistics sector with more efficient delivery systems, and increasingly responsive after-sales services. However, this transformation brings certain consequences for people's consumption patterns, where consumers are increasingly vulnerable to impulse buying practices due to very persuasive digital marketing strategies that are psychologically designed to encourage quick purchases<sup>9</sup>.

On a macro level, the development of e-commerce makes a significant contribution to the national Gross Domestic Product (GDP), strengthens economic

<sup>8</sup> Jozef Bucko, Lukáš Kakalejčík, and Martina Ferencová. "Online shopping: Factors that affect consumer purchasing behaviour." *Cogent Business & Management 5*, no. 1 (2018): 1535751.

<sup>&</sup>lt;sup>9</sup> Yoesoep Edhie Rachmad. Unveiling Consumer Behavior: Marketing Research Strategies for the Digital Era. *International Journal of Consumer Research, Volume 30*, No 1., 2020.

competitiveness, and is one of the main drivers of digital economic growth in Indonesia. However, behind these great opportunities, the speed of e-commerce growth also creates challenges in the field of regulation, especially related to consumer protection, data security and privacy, and supervision of business practices that have the potential to harm the public if not properly monitored. Therefore, this development requires serious attention from the government, business players, and the public so that the benefits of e-commerce can be optimized without ignoring the principles of justice and security for all parties.

#### 4.2. Risks and Challenges of Consumer Protection in the Digital Era

Behind the rapid progress of e-commerce in Indonesia, there are a number of significant risks that need to be given serious attention, especially from a consumer protection perspective. These risks arise as the volume of transactions, the intensity of digital marketing, and the complexity of the technology-based trading ecosystem increase. First, very aggressive marketing practices often take advantage of the Fear Of Missing Out (FOMO) phenomenon or the fear of being left behind to encourage consumers to make quick purchases without much consideration. This marketing technique, which combines time-limited promotions, massive discounts, and persuasive messages, is proven to be commercially effective in increasing sales. However, on the other hand, this strategy has the potential to manipulate consumer psychology and encourage unplanned purchases (impulse buying), which can lead to waste or regret later.

Second, the problem of price uncertainty and the accuracy of product information is also a challenge that is often encountered in e-commerce

transactions.<sup>10</sup> Some sellers often do not include complete, clear, and accurate product information, and some even provide misleading or deliberately exaggerated information. This condition violates the consumer's right to obtain correct, clear, and honest information as regulated in the Consumer Protection Law (UUPK). As a result, consumers can experience financial losses or a decrease in satisfaction with the goods or services purchased. Third, the issue of privacy and personal data security is becoming an increasingly crucial concern.<sup>11</sup> Consumer data, which includes personal identity, address, telephone number, and payment information, is stored in the e-commerce platform's database and is often the target of theft or misuse by irresponsible parties. This data leak can be used to commit fraud, extortion, or identity theft, which not only causes financial losses but also has a negative impact on the consumer's sense of security and trust in digital services.

Fourth, the increasing threat of cyberattacks such as malware, ransomware, and phishing which specifically target e-commerce platforms. Based on the report by the National Cyber and Crypto Agency (BSSN), the online trading sector in Indonesia is one of the main targets of cyberattacks, given the large volume of daily transactions and the large amount of sensitive personal data stored in the system. These attacks have the potential to disrupt platform operations, damage data integrity, and threaten the security of consumer transactions. This series of challenges shows that the success of e-commerce in Indonesia cannot only be

Ying Wang, Fu Jia, Tobias Schoenherr, and Yu Gong. "Supply chain-based business model innovation: the case of a cross-border E-commerce company." Sustainability 10, no. 12 (2018): 4362.

<sup>11</sup> Calvin Lee and Gouher Ahmed. "Improving IoT privacy, data protection and security concerns." *International Journal of Technology Innovation and Management (Ijtim)* 1, no. 1 (2021): 18-33.

measured by the high growth of transactions or the increasing number of users. True success also depends on the extent to which the digital ecosystem is able to guarantee legal protection, maintain system security, and protect consumer rights. Therefore, collaboration is needed between the government, platform providers, business players, and the public to build a safe, transparent, and fair e-commerce environment for all parties.

#### 4.3. Legal Framework and Implementation of Consumer Protection in E-Commerce

Consumer protection in the Indonesian e-commerce ecosystem is based on a number of main legal instruments that complement each other. Law Number 8 of 1999 concerning Consumer Protection (UUPK) establishes various fundamental rights for consumers, including the right to correct, clear, and honest information, the right to safety and comfort in using goods and services, and the right to compensation or indemnification if they suffer losses. More specifically, Article 8 of the UUPK explicitly prohibits business players from producing and trading goods or services that do not comply with the promises, descriptions, or labels stated, both in advertisements and packaging. This provision is intended to prevent fraudulent practices or information manipulation that can harm consumers.

Apart from the UUPK, consumer protection in the digital realm is also strengthened through Law Number 11 of 2008 concerning Electronic Information and Transactions (UU ITE) and its amendments.<sup>12</sup> The UU ITE provides a legal

<sup>&</sup>lt;sup>12</sup> Dian Maris Rahmana and Susilowati Suparto. "Consumer protection and responsibility of business actors in electronic transactions (e-commerce)." *ACTA DIURNAL Jurnal Ilmu Hukum Kenotariatan 2*, no. 2 (2019): 213-225.

framework that regulates the implementation of electronic transactions, including the obligation of electronic system operators to maintain the confidentiality and security of users' personal data. Article 26 of the UU ITE states that the use of a person's personal data in an electronic medium can only be done with the consent of the person concerned. This is an important basis for preventing the misuse of personal data by irresponsible parties. Even higher, at the constitutional level, Article 28G paragraph (1) of the 1945 Constitution of the Republic of Indonesia provides a guarantee for the protection of one's personal self, family, honor, dignity, and property. In the context of e-commerce, this provision means that consumers have the constitutional right to feel safe from various forms of threats, including cybercrime, digital fraud, and attacks that can cause both material and immaterial harm.

The implementation of consumer protection in e-commerce involves the active role of various parties. The government, through the Ministry of Trade and the Ministry of Communication and Information, has responsibility for supervision, law enforcement, and the preparation of policies that are adaptive to technological developments. On the other hand, e-commerce platforms are obliged to provide adequate security systems, provide transparent information, and ensure that consumer complaint mechanisms run effectively. Consumer protection agencies

such as the National Consumer Protection Agency (BPKN) also play a role in advocacy, education, and dispute resolution<sup>13</sup>.

Although a legal framework is available, the biggest challenge lies in the effectiveness of law enforcement and the level of public awareness. Many consumers still do not fully understand their rights in the digital era or do not know the complaint procedures available. On the other hand, some business players have not complied with consumer protection provisions, especially in terms of data security and information accuracy. Therefore, strengthening regulations, increasing digital literacy, and synergy between institutions are needed to form an e-commerce ecosystem that is safe, transparent, and fair for all parties.

#### 5. Discussion

The research results show that the development of e-commerce in Indonesia has a complex dual impact. On the one hand, this progress makes a significant contribution to national economic growth and encourages the transformation of consumer behavior towards a more modern and technology-based direction. Consumers can now access various products and services easily, quickly, and without geographical boundaries. However, on the other hand, this phenomenon also creates serious challenges that cannot be ignored, especially related to consumer

<sup>13</sup> Stefan Koos. "Consistency and Law Comparison in Consumer Protection Law Design in the Light of the Socially Responsible Market Economy Approach." *Indonesian Journal of Economics, Social, and Humanities 3*, no. 2 (2021): 97-104.

protection.<sup>14</sup> These challenges include very aggressive marketing practices, psychological manipulation through Fear Of Missing Out (FOMO) strategies, product information uncertainty, potential personal data leaks, and the increasing threat of cybercrime.

From a legal perspective, the existence of the Consumer Protection Law (UUPK) and the Electronic Information and Transactions Law (UU ITE) has provided a clear normative basis for protecting consumers in the digital realm. However, the effectiveness of this protection is entirely dependent on consistent implementation, strict supervision mechanisms, and firm and non-discriminatory law enforcement. Article 28G paragraph (1) of the 1945 Constitution even provides a constitutional umbrella that strengthens the argument that personal data security and privacy are not just technical issues, but are part of human rights that must be protected by the state. The relationship between privacy, data security, and consumer loyalty is a crucial point in this discussion. Consumers who feel secure about the protection of their personal data tend to have a high level of trust in an e-commerce platform. This trust in turn has the potential to increase loyalty and the sustainability of the relationship between consumers and business players. Conversely, personal data leaks can quickly destroy a company's reputation and trigger a drastic decline in public trust.

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<sup>&</sup>lt;sup>14</sup> Ridwan Arifin, Juan Anthonio Kambuno, Waspiah Waspiah, and Dian Latifiani. "Protecting the Consumer Rights in the Digital Economic Era: Future Challenges in Indonesia." *Jambura Law Review* 3 (2021): 135-160.

Jingjing Zhang, Farkhondeh Hassandoust, and Jocelyn E. Williams. "Online customer trust in the context of the general data protection regulation (GDPR)." *Pacific Asia Journal of the Association for Information Systems 12*, no. 1 (2020):
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From a policy perspective, the government needs to strengthen effective supervision and sanction mechanisms against business players who violate consumer protection provisions. For example, business players who are proven negligent in maintaining the security of personal data must be subject to administrative, civil, and criminal sanctions in accordance with the UU ITE and its implementing regulations. Furthermore, it is necessary to develop and implement comprehensive minimum cyber security standards that must be applied consistently by all electronic system operators, including but not limited to e-commerce platforms, online marketplaces, digital banking services, and other internet-based business entities, in order to ensure the highest possible level of data protection and resilience against cyber threats. These standards should cover multiple critical aspects, such as secure data storage, robust encryption protocols, multi-factor authentication, regular security audits, vulnerability assessments, and mandatory incident reporting mechanisms, all of which are essential to prevent unauthorized access, data breaches, identity theft, and other forms of cybercrime.

#### 6. Conclusion

The development of e-commerce in Indonesia has brought major changes in the economic landscape and consumer behavior. Through digital technology, ecommerce facilitates market access, accelerates transactions, and opens up new business opportunities. However, this progress is accompanied by risks that cannot be ignored, such as aggressive marketing, product information uncertainty, personal data leaks, and the threat of cybercrime. The legal framework in Indonesia, especially the UUPK and UU ITE, has provided a basis for protecting consumers in the digital realm. This protection is strengthened by Article 28G paragraph (1) of the 1945 Constitution which affirms every individual's right to security and protection from threats that endanger themselves and their property. However, the effectiveness of this protection depends on consistent implementation, strict supervision, and firm law enforcement. Consumer protection is not only the responsibility of the government, but also a moral and strategic obligation for business players. The security of consumer personal data and privacy is proven to be closely related to the level of trust and loyalty. Therefore, e-commerce business players must integrate the principles of security and privacy into every business process. With adaptive regulations, effective supervision, and an increase in public digital literacy, the Indonesian e-commerce ecosystem can develop sustainably, providing optimal economic benefits, while guaranteeing consumer protection in the digital era.

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