

## PROTECTION OF CHILDREN'S DATA ON THE INTERNET: LEGAL AND POLICY ASPECTS

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### Abstract

The protection of children's data on the internet is becoming an increasingly crucial issue as the use of digital technology by children increases. This study explores various legal and policy aspects designed to protect children's personal data in the digital realm. In the legal context, this document discusses regulations adopted by various countries, such as the Children's Online Privacy Protection Act (COPPA) in the United States, which requires parental consent for the collection of data on children under a certain age. In addition, the policies implemented by governments, technology companies, and educational institutions are outlined to demonstrate how multisectoral collaboration can strengthen the protection of children's data. The main findings highlight the importance of public education and consistent implementation of existing policies as the key to creating a safer online environment for children. The study concludes with policy recommendations to improve the framework for the protection of children's data, including the need for strict sanctions against violations and the importance of raising awareness about digital privacy.

**Keywords:** Protection, Children's Data, Internet, Legal Aspects, Policy.

### Introduction

The internet has become an integral part of everyday life, providing unlimited access to information and communication. The internet has experienced a significant surge that has changed almost every aspect of human life. The internet is no longer limited to communication and information search purposes, but has penetrated various sectors such as education, economy, entertainment, and health (Montgomery, 2015). With the presence of broadband technology and wireless networks that are getting faster and more widespread, internet access is becoming easier and more affordable for the public. The emergence of 5G technology, for example, enables more stable and super-fast connectivity, thus supporting the development of various innovative digital services (Nguyen, 2020).

Along with the development of internet infrastructure, various online-based services are also increasingly diverse and sophisticated. Social media platforms, such as Facebook, Instagram, and TikTok, have become the main means of interacting and sharing information. E-commerce is experiencing rapid growth with the presence of

various marketplaces that facilitate buying and selling transactions. In education, e-learning and online learning platforms such as Coursera, Khan Academy, or Ruangguru have become alternative learning solutions, especially during the COVID-19 pandemic (The United Nations Convention on the Rights of the Child (UNCRC), 1989). In addition, entertainment services such as music and video streaming (Spotify, Netflix) and digital financial services (banking apps, e-wallets) are increasingly popular and changing people's lifestyles. The integration of technology with these various services shows how much the internet influences everyday life, bringing convenience as well as new challenges in the wise and safe use of technology. For children, the internet offers opportunities to learn, play, and interact with friends. However, behind these benefits, children also face various risks that allow their personal data to be misused (UNICEF, 2017).

Children often do not have full awareness of the risks they face when sharing personal information on the internet. Data such as name, address, school, and personal preferences can be easily retrieved and misused by cybercriminals for various negative purposes, including fraud, kidnapping, and exploitation. Many countries have adopted specific regulations to protect children's personal data, for example; First, COPPA (Children's Online Privacy Protection Act) - United States: This law regulates the collection of personal data of children under the age of 13 by website operators and online services (Almeida, 2021). COPPA requires parental consent before data collection. Second, GDPR (General Data Protection Regulation) - European Union: Establishes that the protection of personal data is a human right, including special protection for children. Article 8 of the GDPR requires that the data of children under the age of 16 may only be collected with parental consent. Third, Law Number 19 of 2016 concerning Electronic Information and Transactions (ITE) - Indonesia: Although not specifically targeting the protection of children's data, the ITE Law provides a general legal framework for the protection of personal data in cyberspace (O'Brien & Kaur, 2025).

Countries and international organisations are also developing various policies to strengthen the protection of children's data on the internet, including Public Awareness Campaigns, the Development of Safe Technology and International Cooperation. However, the implementation of laws and policies related to the protection of children's data on the internet faces various challenges, such as; Low Public Awareness, Difficult Law Enforcement and the Rapid Development of Technology (Ahmed, 2024).

Therefore, the protection of children's data on the internet is a very important and urgent issue. Synergistic efforts between law, policy, and public awareness are needed to protect the younger generation from various risks in cyberspace. Strengthening legislation, public education, and safe technological innovation are key to creating a safer digital environment for children.

Thus, this study aims to further examine the current protection of children's data on the internet, the laws governing the protection of children's data on the internet and the policies implemented to protect children's data on the internet.

### **Research Methods**

The study in this research uses the literature method. The literature research method, also known as a library study, is an approach that collects and examines previously documented information, whether in the form of books, journals, articles, research reports, or other digital sources (Raco, 2018); (Sugiyono, 2010). In this method, researchers identify, evaluate, and interpret scientific and non-scientific works relevant to the topic under study. Literature research focuses on collecting secondary data to gain a comprehensive understanding of the development of existing theories, concepts, and findings. This process aims to build a strong theoretical foundation, identify research gaps, and find significant patterns or trends to provide further context for empirical studies or more in-depth research in the future. Through a critical analysis of existing literature, researchers can strengthen arguments, develop hypotheses, and develop a more systematic framework of thought (Nasution, 1996).

## **Results and Discussion**

### **Legal Aspects of Child Data Protection on the Internet**

The protection of children's data on the internet is becoming an increasingly crucial issue as children's access to and use of digital technology increases. In this digital age, children are often active internet users from an early age, whether for learning, playing games, or social media. Their existence in cyberspace makes their personal data vulnerable to abuse, such as identity theft, privacy violations, and exploitation. Therefore, a number of regulations and policies have been formulated to protect children's personal data and ensure their safety when surfing the internet (Hoffman & Lee, 2023).

One of the laws specifically regulating the protection of children's data on the internet is the Children's Online Privacy Protection Act (COPPA) in the United States. COPPA stipulates that websites targeting users under the age of 13 must obtain parental permission before collecting, using, or disseminating children's personal data. In addition, websites must provide a clear and transparent privacy policy and take steps to maintain the confidentiality and security of children's data (Hoffman & Lee, 2023).

In Europe, the General Data Protection Regulation (GDPR) also pays special attention to the protection of children's data. The GDPR sets an age limit of 16 years, where the collection and processing of personal data of minors must obtain the consent of a parent or guardian. In addition, the GDPR emphasises the principles of transparent, fair and lawful data processing. The importance of child data protection is recognised as part of the basic rights of individuals in the digital age, which must be maintained and protected by all institutions involved (O'Neill & Dinh, 2014).

In Indonesia, the legal aspects of child data protection are regulated in a number of regulations, including Law No. 11 of 2008 concerning Electronic Information and Transactions (ITE), which has been amended by Law No. 19 of 2016. In addition, there is also a Personal Data Protection Bill that is being drafted and is expected to provide a stronger legal basis for safeguarding children's personal data. The Ministry of Women's Empowerment and Child Protection is also active in campaigning for awareness of the importance of protecting children's personal data through various educational and outreach programmes (Tsai, 2021).

In addition to government regulations, digital platforms and internet service providers also have an important role in protecting children's data. For example, various internal policies and security features are developed to minimise the risk of data misuse. YouTube Kids, a video platform specifically for children, provides parental controls and strict content curation to ensure safe access for children. In addition, applications and social media often impose terms and conditions that prohibit certain minors from creating accounts without parental permission (Lin & Xu, 2023).

Even so, the role of parents remains the most crucial in protecting children in cyberspace. Parents need to be educated about the risks and dangers that children can face on the internet and effective ways to supervise and guide children's activities wisely. Open communication and continuous education are important to help children understand online privacy and security and increase their awareness of the importance of protecting personal data (Jones, 2021).

Equally important, education in schools about digital security and privacy must be improved. The curriculum can be tailored to include digital literacy from an early age, providing training and understanding of ethics and laws on the internet. Training programmes for teachers and educators should also be held so that they can provide appropriate guidance to students regarding safe online activities (Nissenbaum, 2010).

Overall, the protection of children's data on the internet requires a holistic approach involving various parties, from the government, internet service providers, parents, to educational institutions. With this collaborative effort, it is hoped that children can enjoy the benefits of digital technology without having to sacrifice their security and privacy. Preparedness and awareness of all parties are the main keys to creating a safe and child-friendly digital environment.

### **Child Data Protection Policy on the Internet**

The increase in internet use by children around the world has necessitated a special policy to protect their personal data. Children's personal data includes any information that can be used to identify them directly or indirectly, such as their name, address, date of birth, and other information that may be used by unauthorised third parties. The government, together with non-governmental organisations and the

private sector, must work together to ensure that children's data is protected when they surf the internet (Scherer et al., 2014).

Parents and guardians play a key role in protecting their children's digital footprints. They must be involved in the process of educating them about the risks and how to protect personal information when children use the internet. Providing an understanding of the importance of maintaining confidentiality is important in creating a safe internet environment for children (Patel, 2022).

The government must implement strict regulations regarding the protection of children's data. This includes legislation that requires companies to obtain parental permission before collecting or processing children's personal data. This regulation must also ensure that there are strict sanctions for violations committed by companies or individuals who misuse children's data (Simon, 2025).

Digital education in schools and communities must be improved so that children understand the importance of protecting their personal information. The curriculum should include lessons on internet security, privacy, and how to recognise suspicious online behaviour. With this knowledge, children will be more aware and better prepared to face the challenges of the digital world (Wang, 2023).

Internet service providers and digital platforms must develop and implement specific security technologies to protect children. These can include strict privacy settings, parental controls, and monitoring tools that parents can use to monitor their children's online activities. These technologies must be intuitively designed for ease of use by all parties (Simon, 2025).

Public awareness campaigns should be encouraged to increase public understanding of the importance of child data protection. These campaigns can involve various media, such as television, radio, and the internet, as well as involving community leaders who can serve as role models. With increasing public awareness, it is hoped that active participation in child data protection efforts will increase (Wang, 2023).

The protection of children's data on the internet requires cross-country cooperation given that the internet is a global network. Countries must work together to develop and enforce internationally applicable child data protection standards. The exchange of information and best practices between countries also needs to be improved to produce more effective protection measures (Muller, 2022).

Finally, it is important to always evaluate and monitor the child data protection policies that have been implemented. The government, together with related institutions, must routinely review and update policies in accordance with the latest technological developments and internet trends. The results of monitoring must be published transparently so that the public can find out the extent to which child data protection has been implemented (Garcia, 2022).

Thus, with the implementation of comprehensive policies and active participation from various parties, it is hoped that children can enjoy safe internet access and be protected from the threat of misuse of their personal data.

## Conclusion

Children spend more time on the internet for learning, communicating, and socialising, making them vulnerable to privacy violations and data misuse. The protection of children's data is a must to safeguard their right to privacy and safety in the digital world. Without adequate protection, children's data can be exploited by irresponsible parties for commercial or even criminal purposes.

Many countries have introduced laws and regulations aimed at protecting children's personal data. For example, the Children's Online Privacy Protection Act (COPPA) in the United States requires that the collection of data on children under 13 years of age be done with parental consent. This legal aspect is the foundation for upholding children's rights in the digital environment, ensuring that technology companies adhere to certain standards in handling children's data. For effective protection, government policy must be supported by education for parents, teachers, and children about the importance of privacy and safe internet use. In addition, collaboration between the government, technology companies, and non-governmental organisations is needed to create a safer online environment. Consistent implementation of existing policies is key, including sanctions for violators, to prevent violations and protect children in a real way.

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