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"Digital Safety for Moms: Cyber Security and Digital Security Education" Socialization for PKK Mothers in Kertamukti Village

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Abstract

The community service team of academics and students from STMIK Mardira Indonesia has executed a community service initiative focused on digital safety concerns for the PKK moms in Kertamukti Village, Cipatat District. This initiative aims to educate the PKK moms in Kertamukti Village. The swift progression of digital technology has simplified daily tasks for homemakers. Nonetheless, these conveniences entail possible digital security threats, including online fraud, personal data theft, and malware proliferation stemming from a lack of awareness of safe technology usage.

This community service initiative aims to enhance digital literacy and raise awareness of cybersecurity among PKK mothers in Kertamukti Village, with a specific focus on recognizing digital scam tactics, creating secure passwords, and implementing preventive measures against cyberattacks. This activity employs interactive presentations, actual case simulations, and direct coaching via conversations and interviews regarding the safe use of digital applications. The outcomes of this initiative are anticipated to enhance mothers' understanding and competencies in safeguarding personal data, as well as to cultivate a positive digital culture within their households.

Keywords: Cyber Security, Digital Security, Digital Literacy, PKK Mothers .

Introduction

The swift advancement of information technology (IT) has profoundly affected human civilization and societal existence. Since the advent of computers, the world has transitioned into a more dynamic information age. Information technology, propelled by computers, has transformed all aspects. Computer-based information processing has been made accessible to the public, with numerous software packages available for data processing to produce information (Fauzi et al., 2022). Technology fundamentally exists to enhance human efforts. This information technology is extensively utilized to handle and evaluate data, yielding relevant, rapid, clear, and precise information (Putri & Sutabri, 2023).

In the contemporary digital age, knowledge disseminates effortlessly to all individuals. The internet facilitates the rapid and convenient dissemination of information among users. The proliferation of social media enhances accessibility by facilitating the dissemination of knowledge. Social media serves as a digital platform that facilitates user engagement through the sharing of opinions, information, and inquiries. The utilization of social media and cellphones renders the information disseminated by users readily available and comprehensible to a broad audience. The increasing ubiquity of social media has altered lifestyles and behaviors. Individuals are currently preoccupied with devices in their hands. A culture has emerged alongside this new lifestyle, characterized by the propensity to share posts or news with other internet users (Tri Yulianti et al., 2023).

The swift advancement of information and communication technologies necessitates that people comprehend digital literacy. Digital literacy is crucial for engagement in contemporary society, particularly in an age where information technology predominantly influences human existence (Lapiana & Oktaviana, 2024). The use of digital literacy empowers society to utilize and access technology more judiciously. In the realm of

technology, specifically information and communication, digital literacy pertains to users' competencies. This encompasses the ability to utilize technology judiciously to foster constructive connections and communication (Edy et al., 2021).

Literacy is typically characterized as the capacity to utilize language and media for reading, writing, listening, speaking, viewing, expressing, and critically reflecting on concepts. It is also linked to social context and application. Digital literacy is a form of literacy that pertains to a person's ability to effectively handle, analyze, and utilize information, ideas, or concepts in digital media (Lapiana & Oktaviana, 2024).

The community's constraints in regulation and the escalating dissemination of information on social media are the primary variables complicating the differentiation between veritable and spurious information. Disputes among communities can stem from this erroneous or deceptive information. Every community group asserts that the information it disseminates is accurate, while questioning the veracity of information from other groups, frequently categorizing it as misinformation (Tri Yulianti et al., 2023).

Homemakers, especially in semi-urban and rural areas, often lack sufficient education on privacy maintenance, personal data management, identifying digital scams, and securing their everyday devices. The inadequate digital literacy within this category renders them susceptible to numerous digital security threats, including online fraud via shopping applications, instant messaging, or social media platforms. Personal data breaches, encompassing financial information, arise from inadequate comprehension of password and account management. The dissemination of misinformation can result in suboptimal decision-making. Exposure to detrimental content can impact children who use digital devices without sufficient parental oversight.

With adequate digital security education, the PKK moms of Kertamukti Village will be empowered to safeguard themselves against digital crimes and foster a family environment that prioritizes digital security awareness.

The community service initiative titled "Digital Safety for Moms: Cyber Security and Digital Safety Education" aims to equip homemakers with training and resources to comprehend fundamental digital security principles, adopt preventive strategies against cybercrime, and improve overall family digital literacy. The education will be imparted through practical, visual methodologies and pertinent real-life case studies, facilitating comprehension and direct application in the moms' daily lives. This initiative aims to cultivate a community of homemakers who are more informed, proactive, and proficient in digital security, hence fostering a secure and healthy digital society.

Method

The community service team of academics and students from STMIK Mardira Indonesia has initiated efforts to deliver education and outreach on cybersecurity and digital safety in Kertamukti Village, Cipatat District, West Bandung Regency, West Java. This team's objective is to socialize and educate PKK moms in Kertamukti Village regarding cybersecurity and digital safety. These mothers are susceptible to numerous digital security threats, including online scams via shopping applications, instant messaging, or social media, due to their insufficient understanding of the hazards present in the digital realm.

The team provides resources to educate PKK mothers about the risks associated with clicking on links in social media as a precautionary strategy against prevalent scams. Subsequently, the team engages in debates and a question-and-answer session. Discussion functions as a pedagogical approach that entails the exchange of ideas, opinions, and information among participants and specialists. This strategy seeks to cultivate critical thinking, communication, and teamwork abilities and may manifest in numerous formats, including small group talks, class discussions, or debates. Consequently, the discussion technique serves as

an excellent instrument for fostering interactive and participative activities (Ruslandi et al., 2025). This discussion and Q&A approach is employed to improve comprehension and mitigate uncertainties and misconceptions regarding the offered topic.

Subsequently, the team conducted interviews to ascertain the comprehension of the training content on cybersecurity and digital safety among the PKK mothers. This allows facilitators to tailor the information delivery to align with the knowledge and comprehension of the PKK moms in Kertamukti Village. An interview is a method employed to collect information or data from a person or group. Interviews may be conducted verbally or in written form and can be administered by an individual or a group referred to as the interviewer (Merti Paensi et al., 2023).

Results and Discussion

Subsequently, the team performed interviews to ascertain the comprehension of the training content on cybersecurity and digital safety among the PKK mothers. This enables facilitators to tailor the information dissemination to correspond with the knowledge and comprehension of the PKK moms in Kertamukti Village. An interview is a method employed to collect information or data from a person or group. Interviews may be executed verbally or in written form and can be administered by an individual or a collective referred to as the interviewer (Merti Paensi et al., 2023).



Figure 1. Submission of Notification Letter to Kertamukti Village

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On June 25, 2025, faculty and students from STMIK Mardira Indonesia conducted a community service initiative in accordance with the Tri Dharma of Higher Education. This initiative sought to enhance the broader community by delivering education and outreach on cybersecurity and digital safety to the PKK moms in Kertamukti Village, Cipatat District, West Bandung Regency, West Java.



Figure 2. Location of Community Service Activities

The outcomes derived from the community service conducted for the PKK moms in Kertamukti Village indicate heightened vigilance among the mothers over social media usage. The PKK moms in Kertamukti were highly engaged and participatory during the event, facilitating the seamless execution of activities from beginning to end. This document outlines the implementation of community service for the PKK moms in Kertamukti Village.



Figure 3. Implementation of Joint Activities with PKK Mothers of Kertamukti Village



Figure 4. Implementation of Material Presentation

Following the lecture, the last session comprised a discussion and interviews with multiple PKK mothers. This was conducted to ascertain the comprehension of the information and to identify any inquiries they may have had. A discussion and interviews were undertaken for a more intensive session. The subsequent photographs depict the conversation and interviews.

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Figure 5. Discussion and Interview

Conclusion

¹ The community service team, comprising lecturers and students from STMIK Mardira Indonesia, effectively executed an initiative to educate the PKK mothers in Kertamukti Village, Cipatat District, West Bandung Regency. Every step, from securing authorization from the village officials to presenting the information, fostering debates, and conducting interviews, was executed with commitment.

The team leader and members effectively finished the service, garnering favorable feedback from the attendees. This activity enhanced the moms' comprehension of the significance of safeguarding personal data, identifying potential cyber risks such as online scams, phishing, and hazardous links, along with straightforward preventive steps applicable to their regular digital practices.

The community service initiative in Kertamukti Village, titled "Digital Safety For Moms: Cyber Security and Digital Safety Education for PKK Mothers," has resulted in an enhanced awareness among PKK mothers regarding the significance of digital security. They increased their attentiveness in acquiring information, scrutinizing, and validating its correctness before clicking on links or disseminating it to friends and relatives.

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