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**JOHOR
INNOVATION
INVENTION
COMPETITION
AND
SYMPOSIUM
2023**



"Innovation Inspires a Society
to be Critical and Creative"

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**AHMAD KHUDZAIRI KHALID
NUR INTAN SYAFINAZ AHMAD**



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Preface

In the name of Allah, the Almighty who gives us the enlightenment, the truth, the knowledge and with regards to Prophet Muhammad (peace be upon him) for guiding us to the straight path. We thank to Allah for giving us guidance and strength to write this e-book.

This e-book compiles the extended abstracts that submitted to Johor Innovation Invention Competition and Symposium 2023 (JIICaS2023), where JIICaS2023 is a virtual platform for all creative minds to share and present their invention and innovation. The extended abstracts are divided into two categories, which are Category A (Higher Educational Student/ Any Recognized Institutional Students in Malaysia) and Category B (Primary/ Secondary School Students / Special Education School Students in Johor). Each abstract gives a brief background on the innovation or project.

We hope that this e-book will help the readers to get to know the innovation done by the students from both categories and get some ideas to develop future innovation products.



Vigilant-E: EMPOWERING ONLINE COMMUNITIES AGAINST FRAUDULENT ACTIVITIES

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ABSTRACT

Introducing Vigilant-E, a groundbreaking shared database combatting online scams through the collaborative efforts of social media users. With the surge in online fraud, this platform stands as a safeguard against scams, fostering a vigilant online community. Vigilant-E empowers users to report and access scammer information, displaying bank and mobile numbers with evidence, curbing future fraud and raising awareness for secure online transactions. Its key features include user reporting, efficient search and verification, and community engagement. Social media users contribute scam details and evidence such as screenshots, conversations from the social media platforms or instant messaging apps, or transaction records, while the platform facilitates swift verification, ensuring safer financial dealings. Vigilant-E provides a secure and user-friendly database that empowers individuals to actively combat scams and protect themselves and others from financial losses. Vigilant-E's secure database enables proactive scam prevention, magnifying impact through collective contributions. Its innovation lies in user-driven action, distinguishing it from conventional approaches reliant on limited data sources or authorities. This means that fraudulent activities that has not been officially reported to the law enforcement will be captured by Vigilant-E; as long as the social media users reported them, even for small value scams! Vigilant-E holds promising commercial prospects through subscriptions, partnerships, and collaborations with finance or e-commerce platforms, attracting cybersecurity backers. As a pivotal tool in fighting online fraud, it entices investors championing safer digital environments.

Keywords: online scammers, reporting, vigilant online community

1.0 INTRODUCTION

The rise of online scams and fraudulent activities in recent years has become a significant concern for individuals and businesses alike. With the growth of online transactions and social media usage, scammers have found new avenues to exploit unsuspecting victims. In response to this escalating problem, Vigilant-E emerges as a groundbreaking solution that harnesses the power of community collaboration to combat online scams effectively. This platform empowers social media users to actively participate in the fight against scams, creating a vigilant online community dedicated to the protection of individuals and their financial assets.

2.0 OBJECTIVE

The primary objectives of Vigilant-E are as follows:

- **Combat Online Scams:** Vigilant-E aims to serve as a comprehensive and real-time database for reporting, tracking, and preventing online scams. It encourages users to

report scam details, providing a platform to share evidence and information related to fraudulent activities.

- **Foster Community Engagement:** The platform seeks to foster a sense of community and shared responsibility among social media users. By enabling individuals to actively participate in identifying and reporting scams, it creates a collaborative environment dedicated to online safety.
- **Raise Awareness:** Vigilant-E intends to raise awareness about online scams and their various forms. Through the dissemination of scammer information and evidence, it educates users about potential threats and promotes secure online transactions.
- **Secure Financial Dealings:** The platform's ultimate objective is to ensure safer financial dealings by offering a reliable source of scammer information. It equips users with the tools to verify the legitimacy of individuals or entities involved in online transactions.

3.0 DESCRIPTION OF INNOVATION/METHODOLOGY

Vigilant-E is a user-driven platform designed to combat online scams through collaborative efforts. Its key features include:

- **User Reporting:** Social media users can report suspected scams, providing details such as bank and mobile numbers, along with supporting evidence such as screenshots, conversation logs, or transaction records.
- **Efficient Search and Verification:** Vigilant-E facilitates swift verification of reported scams, ensuring the accuracy of the information in the database. Users can efficiently search for specific scammer details to make informed decisions during online transactions.
- **Community Engagement:** The platform encourages community engagement by enabling users to contribute to the database actively. This collaborative approach magnifies the impact of scam prevention.
- **Secure Database:** Vigilant-E maintains a secure and user-friendly database, safeguarding the privacy and security of both contributors and users. It ensures that sensitive information remains protected.

4.0 ADVANTAGE/IMPACT/RESULTS/NOVELTY

Vigilant-E stands out due to its novel approach to combating online scams. It distinguishes itself from conventional methods that rely on limited data sources or authorities by harnessing the collective power of social media users. This unique approach presents several commercialization opportunities:

- **Subscriptions:** The platform can offer subscription plans to users who seek premium features, such as advanced search capabilities or priority scam verification. These subscriptions can generate recurring revenue.
- **Partnerships:** Vigilant-E can establish partnerships with financial institutions and e-commerce platforms to integrate its database and verification tools. This collaboration can enhance the security of these platforms and attract a broader user base.

- **Cybersecurity Backers:** As a pivotal tool in the fight against online fraud, Vigilant-E can attract cybersecurity investors and backers who are dedicated to creating safer digital environments. These backers can provide the necessary resources for the platform's growth and development.

5.0 CONCLUSION

In conclusion, Vigilant-E is a pioneering solution to combat the surge in online scams by empowering social media users to actively report, verify, and access scammer information. Its user-driven approach, efficient database, and community engagement set it apart from traditional methods of addressing online fraud. The platform not only contributes to safer online transactions but also holds promising commercial prospects through subscriptions, partnerships, and support from cybersecurity backers. Vigilant-E represents a significant step toward creating a more secure digital environment and fostering a vigilant online community dedicated to the protection of individuals and businesses.