**REVIEW OF RELATED STUDIES**

Based on the study, the application of the Theory of Planned Behaviour in the research conducted by the proponents of the World Conference on Gender Studies in Malaysia is effective in determining the factors of reporting of child abuse cases. The aforementioned theory explained that it showed crucial points and information about human behavior through the level of beliefs and assumptions. These findings from the results can pinpoint the problems in intervention of child abuse cases or change existing policies that can help the authorities carry out duties more effectively.

On a function in the android application Abhaya, an android application for the safety of women, it uses Global Positioning System to track users and send their location to the application. Furthermore, it also contacts their immediate registered person in their contact numbers that alerts them and sends their location using a Google Map link every five minutes. The user can provide four available contacts in the app namely a Police Officer, their families and loved ones.

Visual Information Reporting is also regarded as one of the main features in the app Relayvio that documents domestic violence. Photos from the aftermath of the abuse is seen here as it shows the physical damage dealt by the abuser by providing a picture of the users’ wounds and injuries. This app is useful in documenting abuse as it captures the images, date, and notes that can help to inform the authorities, friends, and families.

One of the most commonly used in assessing risk is the Danger Assessment found in the Mobile Application for Survivors of Domestic Violence. It contains two parts, the calendar part and the instrument part. The calendar part can mark dates where abusive events are rated one to five based on the severity of aggressions. The instrumental part contains twenty items to answer and its result can predict the power of violence that occurred to the victim.

Having and creating an Awareness Module found in the application iJuanaHelpMo educates victims that can help to know their own rights, what resources they can find, and support that is applicable to any Filipinos regarding violence and abuse they experience inside their homes. In this application module, victims can read related laws and rights related to Violence Against Women and Children. They can educate themselves as it serves a series of references that is linked to their current state.

Due to lack of web-based systems or mobile applications, Malaysia previously does not have a means of handling out of available assistance to their potential domestic violence victims. Also, lack of manpower, funds, and resources of Non-Government Organization is also one of the primary causes of this. However with the cases rising, there are applications that started to launch to combat domestic violence but the application TINA (Think I Need Aid) provides additional features that can encourage users emotionally and psychologically by their numerous functions of the app. An example of this is the users participating in a domestic survivor group chat in WhatsApp and a free counselling with the Women's Aid Organization, a local non-governmental organization in Malaysia.

As with the rise of android mobile smartphones, its popularity and simplistic design became prominent to people as it has numerous functions and its portability. Therefore with this wide range of potential available users, in a certain function of We Safe App, a user can notify all users of the app to find missing persons. With their general appearance information and photograph provided by the user, other users will be notified through the app. This process of functionality can be used by the police to track down people who are potential criminals provided in their wanted list.

Users can add their friends and families into the contact information to the system as introduced in the Interactive Internet of Things for real time Crime Reporting as who they seem fit. In this way, the app alerts them first of the unexpected crime as the user sends alarms and current information about them. The individuals who were registered as immediate contacts can act swiftly as the app alerts them.

Furthermore, the contact system that alerts first their close relatives and friends is also seen at the study, Eyes and Apps on the Streets: From Surveillance to Sousveillance using Smartphones. According to the author, this is done to enhance the safety of the user. It also has an adding image function when users add an event in the app to provide possible evidence. This functionality can make documenting of abuses easier.

In a study from A Cloud-Based Crime Reporting System with Identity Protection, the informer uses an integrated circuit card or smart card to report an event even without his/her identity. The smart card will verify the identity of the reporter and can be used to log in the system without their identities being shown. Without compromising the reporter's identity information, their statements would hold more information and can provide more definite testament.

**References**

Abdullah, J., et al. (2020). An Application of the Theory of Planned Behavior in Predicting Child Abuse Reporting Intention of Malaysian Society. KnE Social Sciences, 225-238. https://doi.org/10.18502/kss.v4i10.7411

Balahadia, F., & Mortel, Z. (2020). iJuanaHelpMo: Web and Mobile Application for Reporting Violence: A Framework for Developing Violence Against Women Application. Asia, 30-36. https://www.researchgate.net/publication/344382104\_iJuanaHelpMo\_Web\_and\_Mobile\_Application\_for\_Reporting\_Violence\_A\_Framework\_for\_Developing\_Violence\_Against\_Women\_Application

Ceccato, V. (2019). Eyes and Apps on the Streets: From Surveillance to Sousveillance Using Smartphones. Criminal Justice Review, 44(1), 25-41. https://doi.org/10.1177/0734016818818696

Ibrahim, E., et al. (2021). Tina: Empowerment Based Design for Domestic Violence Survivors Mobile Application. Turkish Journal of Computer and Mathematics Education (TURCOMAT), 12(3), 2129-2135. https://doi.org/10.17762/turcomat.v12i3.1155

Neelam, V. (2018). Mobile Application for Survivors of Domestic Violence. Georgia State University. https://scholarworks.gsu.edu/iph\_capstone/94/

Norowi, N., Hairudin, S., & Abdullah, L. (2021). RELAYVIO: Mobile Application for Documenting Domestic Violence. Asia-Pacific Journal of Information Technology and Multimedia, 63-73. dx.doi.org/10.17576/apjitm-2021-1001-06

Shih, T., Chen, C., Syu, B., & Deng, Y. (2019). A Cloud-Based Crime Reporting System with Identity Protection. Symmetry, 11(2), 255. https://doi.org/10.3390/sym11020255

Srividhya, R., et al. (2021). Interactive Internet of things for real time crime reporting. Journal of Physics: Conference Series, 1916(1). doi.org/10.1088/1742-6596/1916/1/012134

Yadav, S. (2019). We Safe (Anti-Crime Application). International Journal of Scientific Research & Engineering Trends, 5(1), 185-188. https://ijsret.com/2019/01/09/ijsret-volume-5-issue-1-jan-feb-2019/

Yarrabothu, R. S., & Thota, B. (2015). Abhaya: An Android app for the safety of women. 2015 Annual IEEE India Conference (INDICON). https://doi.org/10.1109/indicon.2015.7443652

Connecting subscribers directly to an emergency hotline platform for quick response to emergency services is one of the functions of the mobile application named The Itaga Mo Sa Bato App (PNP Reporting App)/ Police Quick Response System intended to supplement the National Emergency Hotline 911.

PNP launches Mobile App for Frontline Services and Crime Awareness