

Applications for Tracking Close Contact with COVID-19 Patients in Malaysia

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Abstract: *This paper discusses the unending coronavirus (COVID-19) pandemic. The activity of detecting, testing those with symptoms and isolating their contacts is the most effective method of stopping the chain of coronavirus infection. The importance of the study is to identify smartphone applications that can track the movement of individuals in an effort to curb the spread of COVID-19, especially in Malaysia. This research method used a literature review, which included new insights into the quality of action and scientific papers. It synthesized information gleaned from a variety of sources. The findings of the study are that the Government of Malaysia has launched three main applications to track the movement of individuals, namely Gerak Malaysia, MyTrace, MySejahtera. Similarly, every state in Malaysia has its own state government application to track individual movements. Overall, Malaysia is one of the countries in the world that has successfully curbed the spread of COVID-19. COVID-19 cases in Malaysia are under control.*

Key Words: *COVID-19 app, National Security Council, Gerak Malaysia, MyTrace, MySejahtera.*

1. INTRODUCTION:

The users of the Gerak Malaysia application need to update the application to the latest version 2.5 to enable them to obtain state-of-the-art travel via the Quick Response (QR) Code. Bukit Aman Criminal Investigation Department (CID) director Datuk Huzir Mohamed said smartphone users of the Android system could update the app on their mobile [1] phones starting 1 May midnight for iOS system users.

The creation of the QR code was to prevent people from trying to take advantage of cross-country travel without applying for permission and/or without police approval to ensure that only those who are truly stranded in their respective states can travel cross country scheduled until May 10. So far, 98 roadblocks were set up at major cross-border routes including highways nationwide. Drivers wishing to pass roadblocks will need to display the QR code on their mobile phones to CID police officers who will scan it for verification purposes before allowing the driver to continue on their journey. People were reminded to generate the QR code before traveling on the appointed day since it was valid for only 24 hours [1].

Those having trouble downloading the Gerak Malaysia application were able to apply manually at the nearest police station. So far, 13,069 applications for approval letters for traveling were issued nationwide and drivers must ensure that they carry it during their journey. The date of June 9th, 2020 was the last day for all cross-country travel applications both through the Gerak Malaysia application and manually. The Royal Malaysian Police had earlier set up a schedule for the people stranded in Kuala Lumpur to return to their homes in other states in the Peninsula. On 8th May, those stranded in Perak, Johor and Kelantan states headed to their respective destinations in Kuala Lumpur while on 9th May, the movement was dedicated to those moving from Perlis, Kedah, Penang, Malacca and Pahang states. On 10th May, the movement was dedicated to those in Selangor, Negeri Sembilan and Terengganu states [1].

2. LITERATURE RESEARCH:

MyTrace, a mobile contact tracking application developed by the Ministry of Science, Technology and Innovation (MOSTI) and local expertise, was introduced to help the government detect COVID-19 infection through contact detection, thus resolving the outbreak as soon as possible. Senior Minister (Security), Datuk Seri Ismail Sabri Yaakob, said that MyTrace [2] allowed the government to detect individuals close to COVID-19 patients using a 'Bluetooth' wave with the data able to be stored within 21 days in a user's smart phone. MyTrace however only collects confidential user information and does not collect any geolocation information. MyTrace complements MySejahtera previously launched application using 'Bluetooth' for contact tracking, when the MyTrace user's mobile phone is in close proximity; it has the impact of their presence through the wave. The distance and duration of the user's discovery can be identified based on the power of the 'Bluetooth' detected waveform, and the data collected can be stored on the mobile phone for up to 21 days. Contact tracking is very important in order to identify when an individual has come in close

contact with someone who has positively tested for COVID-19 [2]. At the same time, he said that if a new COVID-19 cluster was detected, the MyTrace app would help the Ministry of Health (MOH) to detect the infection as soon as possible. To ensure its effectiveness, target usage is about 60% involving smartphone users nationwide. The government is hoping that as many people as possible will download and use the MyTrace app which is available through the Google Playstore for Android devices while the iOS version is available throughout the nation. Through the MyTrace application, in the event that a user tests positive for COVID-19, the authority will search the close contact detected via the MyTrace Contact Detection Log. There are two ways of registering to go to cities or vice versa. People have to register to the Gerak application or report to the police station on an appointment to inform their intention to move [2].

Implementation of Use of Applications for Tracking Close Contact with COVID-19 Patients

A. MyTrace COVID -19: Take Advantage of MySejahtera

The MOH encourages all residents to use the MySejahtera and MyTrace applications that help monitor and track COVID-19 contacts. The MOH's chief executive officer, Datuk Dr Noor Hisham Abdullah, said that the two [3] smartphone applications developed by the Malaysian Government in collaboration with the various agencies could be downloaded for free. He also urged non-Malaysians in the country to download the application. MySejahtera is helping to monitor the spread of the COVID-19 epidemic in the country by empowering people or consumers to be concerned about the health and current condition of COVID-19 in Malaysia. MySejahtera enables users to carry out self-health assessments, while helping the MOH obtain early information on individual health levels in order to take prompt and effective action. MyTrace allows the government to conduct contact detection for individuals who test positive for COVID-19. MyTrace does not collect the geo-location information of users, but records Bluetooth wave logs when users are close to each other [3].

B. 'Hotspot Tracker'

People can detect COVID-19 positive cases reported within a kilometer of a specific area using the 'Hotspot Tracker' through the MySejahtera application. Director-General of Health, Datuk Dr Noor Hisham Abdullah, said that it was to help [4] the public carry out daily activities and plan daily trips more carefully after identifying risky areas. In the same vein, people were advised not to undertake non-essential travel to avoid COVID-19 infections. This app can be a guide for every user to plan to move from one place to another. This is in line with the empowerment of individuals as they get used to the new norm in everyday life. People need to take care of themselves, their families and the community around them to keep it free from COVID-19 infection. For those who have not downloaded the MySejahtera app, they can use other available apps functions, including self-assessment of health and access to the latest information from the MOH's National Crisis Preparedness and Emergency Response Center (CPRC) website [4].

3. METHODOLOGY:

Researcher uses comprehensive research design namely research synthesis. Research synthesis is the process of combining the results of a major research aimed at testing the same conceptual hypothesis. It can be used for quantitative or qualitative research. The overall goal is to make the results from various studies more versatile and feasible. The goal is to generate new knowledge by combining and comparing the results of various studies on specific topics. One method is to use a systematic survey method.

3.1 SAMPEL OF STUDY

Each document sampling represents a nuisance to the subject. Generally, sensitive objects such as mural sampling should be done by the custodian or at least with the custodian. The presence of analysts in the sample is important for obtaining necessary information from analysis and investigation. The accuracy of the analysis directly depends on whether the sample represents an object. Sampling is for answering specific questions, not for analysis. Therefore, the type, size and location of the sample must be selected to provide the desired answer.

3.2 STUDY INSTRUMENTS

Researchers will use several methods to collect data. These include supporting documents, observations, interviews, and reflection notes. These instruments will assist the researcher in obtaining the information needed to strengthen the researcher's research.

3.3 DATA COLLECTION PROCEDURE

Synthesizing information from relevant literature; Researcher used synthesis discussion that draws on one or more sources. Your ability to infer relationships among sources such as essays, articles, fiction and also non-written sources such as lecture, interviews and observations. It refers to the bringing together of materials from different sources and the creation of an integrated whole.

Digital contact tracing apps have been proposed as a method of controlling the spread of Covid-19. The effectiveness of this tool depends largely on adequate levels of uptake (e.g. whether the user downloads and registers on the application) and engagement (e.g. the extent of usage of the application or its components over time). It has been estimated that approximately 60% of the population would need to use the application in order for it to be effective in reducing the spread of COVID-19. It is therefore crucial that we understand the level of, and factors influencing, uptake and engagement with digital tracing applications in order to put appropriate measures in place to mitigate those issues.

3.4 DATA ANALYSIS PROCEDURES

The process of analyzing the data of the researcher is obtained through supporting documentary methods such as training and student worksheets, observations, interviews and reflection notes. The researcher analyzes all the forms that have been prepared such as supporting documents including student training and worksheets, observations, interviews and notes of reflections on the application of Mathematical Methods to students. The analysis of data from triangulation sources is to enable the researcher to obtain more in-depth information as stated by Anderson [3] as each data from different triangulations will provide a different analysis.

4. FINDINGS :

Study One Question: What are the Levels of Understanding of Applications for Tracking Close Contact with COVID-19 Patients?

MySejahtera For Check-In

The public can now use the MySejahtera app to register and control the influx of visitors to business premises, construction sites, factories and offices. Senior Minister (Security), Datuk Seri Ismail Sabri Yaakob, said that the registration and control of [5] structured visits could be made possible through an additional function in the application known as MySejahtera Check-In. The additional functionality in the MySejahtera application would assist the government in the management and control of the COVID-19 outbreak during the country's economic re-operation. MySejahtera Check-In will be available starting June 2 at three AEON outlets. Therefore, he urged the public to download the MySejahtera application to assist the government's effort to break the COVID-19 infection chain. The app can be downloaded through the Government of Malaysia Mobile App Gallery (GAMMA), Apple App store, Google Play store and Huawei AppGallery. He said this at a press conference after attending a special ministerial committee meeting on the Conditional Movement Control (PKPB) in Putrajaya on 31st May, 2020. The MySejahtera application had 770,216 signatures and 929,276 health assessments. The MySejahtera application was introduced in April 2020, as part of a government effort to break the COVID-19 infection chain, with the function of helping consumers identify health levels throughout the outbreak. MySejahtera also works to help users get the medical help and actions they need to take if they are infected with COVID-19, as well as identify nearby hospitals and clinics for screening and treatment [5].

Study Question Two: What Are The Levels Of Mastering Of Applications for Tracking Close Contact with COVID-19 Patients?

QR Code for Cross-State

A total of 1.47 million users downloaded the Gerak Malaysia application with 503,276 of them applying for state-wide movement since April 25 until May 6 [6]. Director of Criminal Investigation (CID) Datuk Huzir Mohamed said that [6] the department had also received 13,069 applications made at the police station as 5th May, 2020. However, the number of users who have already endorsed the movement across the state is just 148,516 people or 29.5% of the total applications. The remaining 354,760 were found to be unconfirmed by not updating their original address and destination address. Also present at this press conference was the Chairman of the Malaysian Communications and Multimedia Commission (MCMC), Al-Ishsal Ishak. Huzir said that applicants were asked to update the Gerak Malaysia 2.5 application which is accessible for Android system phone users, and for iOS (iPhone) users for approval through the QR Code [6].

There were two possible new versions of the 12 MB that could not be downloaded, possibly due to the smartphone version as well as the mobile phone's network speed. However, those with this problem have the option of either manually applying to the nearest police station or showing the profile of the application made in the previous version 2.0 application. Huzir directed the roadblock personnel to allow the people who are facing this situation to just show a profile on the application. In addition, express bus and motorcycle services are not allowed to be used as vehicles for cross-country trips beginning from 10th May. The ban has been finalized. Public vehicles such as buses and motorcycles are not allowed for cross-country travel. For motorcycles, they are difficult to control due to social exclusion. For all air travel, flights were allowed on the Peninsula. However, for travel to Sabah and Sarawak, people were required to apply online through the state government-provided platform before purchasing a flight ticket [6].

COVID-19: Smartphone Application of Motion Effects

Malaysia developed a smartphone application that can track individual movements in an effort to limit the spread of COVID-19. Minister of Science, Technology and Innovation, Khairy Jamaluddin, said that a similar [7] application was launched in Singapore, which was referred to as one of the countries to successfully detect the outbreak through contact tracking. Singapore launched a mobile phone app called 'TraceTogether' that could track people's movements so that in the event of a positive case, they would be able to see the history of the movement. They can also warn others close to the patient to do the test (screening), he said when he was a moderator of the MOSTI official Facebook forum on 26th March, 2020 [7].

Launched on March 20, the TraceTogether app can detect individuals within two meters of a COVID-19 patient for at least 30 minutes, using Bluetooth signal technology. The developer of the application said that it was useful when the infected could not remember who they were in contact with for a period of time. Meanwhile, Mahendhiran said that the implementation of such applications should be in line with effective regulations, besides educating the public on the importance of using technology and data in the healthcare industry. It is about educating residents on how data are being used, having a lot of awareness and having a regulatory framework on who sees and uses the data, and under what circumstances [7].

Study Three Questions: What Are the Forms of Applications for Tracking Close Contact with COVID-19 Patients?

COVID-19: Directional Application, Police Blockbuster Navigation

The number of roadblocks will be increased, as the Movement Control Order (MCO) enters the second week with a focus on non-main or 'back roads'. Home Minister Datuk Seri Hamzah Zainudin said that the move to curb the movement of a few leftist groups in violation of the MCO's directive to stay in their homes [8]. It was necessary to adopt this strategy because road users who use direction and navigation applications like Waze would be notified of locations with roadblocks. This would allow them to look for alternative routes to avoid via the roadblocks; thus, it is necessary to impose restrictions on the route forcing them to enter roadblocks existing routes. For example, in Kota Damansara there are many routes, so we will make restrictions, he told reporters after completing a roadblock survey at the exit at the Kota Damansara Toll Plaza on 28th March, 2020. The action was necessary for the people to obey the MCO's instructions and not to move around for any purpose [8].

Earlier, the police authority surveyed five other roadblock locations around Petaling Jaya area, accompanied by Petaling Jaya District Police Chief Assistant Commissioner Nik Ezanee Mohd Faisal. By the 12th day of the MCO implementation, the percentage compliance rate had increased to 95% and that figure was expected to improve later. Although the rate of compliance had shown an improvement over the first week, there were still some ignoring the advice to stay at home if there is no need to move. Police urged all people to obey the MCO's instructions as best as possible. The government and people of Malaysia do not want the MCO to continue since it will bring more problems and create greater pressure on citizens. Meanwhile, the number of arrests against those who failed to comply with the MCO to curb the COVID-19 outbreak since 18th March increased to 1,354 people. Of the total, 73 people have been charged in court. The increase in the number of people charged shows that the police were taking sterner action on those who breach the MCO. However, police will now take more stringent action in accordance with existing legal remedies for those who fail to comply with the MCO [8].

Study Four Questions: How Implementing Applications Helps Improve Understanding and Mastery of Tracking Close Contact with COVID-19 Patients?

MySejahtera Application, MyTrace Makes it Easy to Track Contacts

The government established MySejahtera and MyTrace applications to facilitate contact detection of COVID-19 infections. Prime Minister Tan Sri Muhyiddin Yasin said that [9] in the fight against COVID-19, contact tracking was very important. The health care provider must know who has been close to the person identified positive for COVID-19. To facilitate contact tracking, he hoped that all the people in Malaysia have the smartphones to download this application to help the MOH conduct contact detection in the event of a new infection. "This is our responsibility", he said in a special message on Labor Day (May 1, 2020) [9].

MySejahtera app, what people need to know is importance of Covid close contact detection. Prior to this, the government introduced "Gerak Malaysia" which is a special application to facilitate the handling of applications for public movement permits, especially those based in their hometowns prior to the enactment of the MCO. MySejahtera application is now being introduced to assist in monitoring the spread of COVID-19 outbreaks in the country. It enables consumers to carry out self-health assessments while at the same time helping the MOH obtain early information to take prompt and effective action. This is what Malaysians need to know about MySejahtera [10].

1. User friendly

 - Assists the government in resolving the next chain of infection in addressing the COVID-19 outbreak,

- Helps individuals identify their health status during the course of COVID-19 transmission,
 - Helps individuals access health care and learn what action to take if they are infected with COVID-19.
 - Helps individuals identify nearby hospitals and clinics for COVID-19 screening and treatment.
2. The Prior of the MySejahtera app: The MySejahtera application was developed through a strategic collaboration between the National Security Council (NSC), MOH, Malaysian Administrative Modernization and Management Planning Unit (MAMPU), MCMC and the MOSTI.
 3. MySejahtera application users: There are two categories of application users:
 - Malaysians and foreigners residing in Malaysia,
 - Application administrator at MOH.
 4. Laws relating to application implementation: The MySejahtera Application was developed to support the implementation of the Prevention and Control of Infectious Diseases Act 1988 (Act 342). Submitting false information is an offense under Section 22 of the Prevention and Control of Infectious Diseases Act 1988 (Act 342) and Section 233 of the Communications and Multimedia Act 1998 (Act 588) [10].

5. DISCUSSION :

DISCONNECTS THE COVID-19 CHAIN

MySejahtera application has been developed by the government as a control initiative of worldwide pandemic COVID-19 outbreak. The application was developed in collaboration with the NSC, MOH, MAMPU, MCMC and the MOSTI. Two categories of users of this application are Malaysians and foreigners residing in the country. It is available for download through the GAMMA, Apple App Store, Google Play store and Huawei AppGallery for free. Consumer information will be used to help the MOH plan and implement appropriate action. Therefore, the honest attitude of the users when transmitting information has an impact in helping the MOH to break the pandemic chain. However, the government assures consumers that they do not have to worry as all information is kept under the confidentiality of medical records. Additionally, through MySejahtera users can get help through the 'Technical Assistance' function. In just eight steps, users were able to register and help the government to break the Covid-19 chain [11].

Three government applications related to the MCO and development of COVID-19 in Malaysia have been the most downloaded applications by the people. According to a recent report by SimilarWeb.com, the “Gerak Malaysia” [12] app topped the list as the most downloaded app among those available on the Google Play store, followed by MySejahtera and MyTrace. This is followed by the app Ultraman: Legend of Heroes and NERF Epic Pranks! which occupies a place in the top five. The rankings are based on recent download factors and active users over a 28-day period, but the report does not detail the total number of downloads during that period. The three government applications are among the 100 most popular new applications listed through the SimilarWeb.com algorithmic system. The company, based in New York, USA provides analytical website services for businesses and customers including website traffic volume data, referral sources, word analysis and other website-related studies [12].

The Gerak Malaysia application was developed for the purpose of facilitating the application for obtaining a state-wide movement permit for the displaced people in villages to return to the city as soon as the CPP was announced on 18th March. Citing Bukit Aman CID director Datuk Huzir Mohamed's statement at a media conference, Gerak Malaysia's application had been downloaded for 1.4 million times, with 503,276 inter-state motion requests received. The MySejahtera and MyTrace applications, respectively, play a similar role developed by the government to enable users to carry out self-health assessment and contact detection of the COVID-19 outbreak [13].

A. 'Sabahttrace'

State Government Secretary-General Datuk Safar Untong in his statement said that the Sabahttrace application was for use by ministries, departments, government agencies and entrepreneurs in all sectors of industry and business activities in Sabah. According to him, to use the Sabahttrace application, users only need to sign up on the <https://sabahttrace.my> website for a QR ID. Users can then print 'QR Code Sheet' to display in the main entrance area of their premises. Workers and visitors only need to use the 'QR Code Reader' application. QR Code Reader application to enable scanning of Premises. The users could register their name and phone number into the system [14].

B. COVIDTrace And Qmunity Applications

Two smartphone applications for tracking COVID-19 close contacts were officially launched in Sarawak on 29th May, 2020. The two applications, COVIDTrace and Qmunity, were developed by Sarawak Multimedia Authority (SMA) and Sarawak Information Systems Sdn Bhd (Science). Chief Minister Datuk Patinggi Abang Johari Tun Openg said that the [15] application was an extremely important technology as a tool to help Sarawak break the COVID-19 chain. One of its applications is Qmunity for the business community to store data and detect COVID-19 cases. Next is COVIDTrace to detect cases of importing the virus. Many individuals are expected to return to Sarawak and this may invite a second wave of COVID-19 infections since the state government does not know whether they are infected. Also present in Sarawak was Deputy Chief Minister Datuk Amar Douglas Uggah Embas. Additionally, Abang Johari said that all data were to be stored and managed through QR code detection. The app also made it easier for the authorities

to detect individuals who were in close contact with the COVID-19 positive cases. When they know the infected persons, they try to break the chain. They can easily identify the data with the storage information. The QR code detection also helps those who are reluctant to write information when entering a business premises. Both of these apps can be uploaded to the Google Play store and Apple App store [15].

C. The 'Johor Track' App

The Johor state government has taken initiative to prevent transmission of COVID-19 by launching the 'Johor Track' application to assist with contact detection. Johor Chief Minister Datuk Ir Hasni Mohammad in a statement said that [16] the Johor Tracking application would enable the Johor State Department of Health (JSDH) to obtain user contact records and notify them immediately if there was a risk of COVID-19 infection. Applications developed by the Iskandar Regional Development Authority (IRDA), the United Nations Development Program (UNDP) and the University of Technology Malaysia (UTM) used the combination of Iskandar Malaysia Urban Observatory COVID-19 Crisis (IMUOCC) Iskandar Malaysia Urban Observatory data analysis platform. The application uses the smartphone's Bluetooth wave to identify contacts between users of the app up to a meter. The launch of the application was in line with the current governmental announcement which allowed more government and private sector entities to operate which resulted in more people returning to work or traveling abroad for employment [16]. Therefore, it is important to not only monitor the transmission of COVID-19, but also to take more proactive steps by conducting analysis for early detection of transmission in specific regions or clusters in the near future. Users will only be identified by a unique ID; as well, only the user's registered phone number is stored in the application for ease of contact by JSDH for notification delivery via SMS. In fact, only JSDH and the Johor State Security Special Committee could use the platform to analyze positive patient data, close contacts and patients in the COVID-19 investigation, to enable the government to take immediate steps to address the epidemic. The system will also produce an analysis of the relationship between positive patients, close contacts and patients in the COVID-19 investigation to identify clusters of infections. By identifying the connection between them, the authorities will be able to anticipate potential areas of future transmission, and therefore take appropriate precautions. The app could be downloaded through the Google Play store and was expected to be made available in the future through Apple Store [16].

D. SELangkah Application

A total of 148,432 business premises in Selangor utilized the SELangkah (Selangor-step) application to facilitate the detection of coronavirus (COVID-19) contact detection. Selangor Menteri Besar Datuk Seri Amirudin Shari said that [17] so far, there were large companies and international companies operating in the state using the SELangkah applications at their premises. Among the big companies are SP Setia Berhad, a 7-Eleven convenience store, and the coffee chain, Bean and Tea Leaf, in Selangor. The SELangkah application showed that the system was being developed with full confidence, after the Restu Foundation's Al-Quran Wakaf Contribution Ceremony to Frontlines and the Selangor COVID-19 Quarantine Center at the Selangor Menteri Besar's residence. Selangor introduced the SELangkah system of entry and exit of individuals to business premises or government departments to track COVID-19 infection. SELangkah aims to protect business premises, customers and front-line teams easily and quickly. It uses the same concept as the use of manual registration books on business premises but it is digitally modified. The owners of the premises are asked to print and display the QR code at their respective businesses through the one-step portal.mbiselangor.com.my or one-step, while the customer must scan the QR code on entry [17].

E. The PGCare App

Penang introduced the 'Penang Contact Tracer (PGCare)' application, which is a registration system for contact tracking to facilitate compliance with standard operating procedures (SOPs) by business premises in the state. The PGCare application is a joint project of 'Public, Private, Partnership' (PPP) between the state government through the Penang Chief Minister's Corporation with Madison Technologies backed by Maxis Broadband Sdn Bhd. Penang Chief Minister Chow Kon Yeow said that the application could reduce the risk of transmission of COVID-19 when business owners did not have to provide pen and paper to record customer information. Through this application, it can replace the SOP method as prescribed by the NSC and thus provide more convenience to residents of the state. To use this application, it is necessary to scan the QR code, fill in the required information and make it known to the premises after check-in. The system not only saves time and avoids contact but also ensures that the personal information provided is safe and not misused. PGCare will only record the names and phone numbers, all of which is accessible to the state government only. All the databases will be managed by the state government and the information will be accessible in the event of any request from the MOH for the purpose of tracking COVID-19 contacts. However, the database would only be retained for a period of 30 days and would be automatically deleted upon the request and approval of the Penang State Health Department (PSHD). As such, the state government is calling on Penang business and the general public to cooperate to use the system responsibly. The government carried out this kind of SOP to control people for defying the MCO. To access the system users can visit the website, www.pgcare.my or through www.penanglawancovid19.com [18].

F. Online Bazaar

Terengganu created an online Ramadan bazaar application following a cancellation of bazaar operations by all local authorities to deal with the spread of COVID-19. State Tourism, Human Resources, Micro Industries and Hawker Affairs Executive Councilor Mohd Nurkhozaini Ab Rahman said the special application to assist the Ramadan bazaar traders was to be launched in March 2020. All Ramadan bazaar traders were able to register with the application, which will be monitored by the Terengganu Entrepreneur Development Foundation (TEDF) and run by 32 State Assembly Service Centers. The TEDF recommends traders set up an online Ramadan bazaar platform. All traders at each of the bazaar could register with this application and would be provided a complete solution where customers could make purchases that would be delivered to their homes. The company also proposed using an online payment method via e-wallet to reduce cash transactions. For the record, Terengganu has 76 Ramadan bazaar locations in all districts involving 7,180 traders. The Terengganu government had decided to cancel the operation of Ramadan bazaars in all local authorities to minimize and contain the spread of COVID-19. The cancellation was approved at the Terengganu Special Security Committee meeting chaired by Menteri Besar Datuk Seri Dr Ahmad Samsuri Mokhtar on 29th March, 2020. Terengganu Local Government, Housing, Health and Environment Exco, Dr Alias Razak had said that the order was notified to all local authorities based on the classification of Ramadan bazaars not which is in the 'essential services' category [19].

6. STUDY IMPLICATIONS :

The implications of the applications for tracking close contact with COVID -19 patients show evidence that apps for COVID-19 contact-tracing are secure and effective. Malaysian Federal and State Governments see coronavirus apps as key to releasing lockdowns. In exchange for people's health data, they must promise to work together to develop the highest standards of safety and efficacy. Like any health-care intervention, coronavirus apps need to conform to the highest standards of safety and efficacy. And yet, despite the pandemic's global nature, Malaysia has developed apps independently, and there are no global standards which is rightly raising concerns.

7. CONCLUSION :

All residents of Malaysia were encouraged to download the application MySejahtera. The government recommended that people download the MySejahtera app to enable self-assessment of their health. The application would also enable the MOH to take quick, accurate and effective action to identify and inform close contacts in the event of COVID-19 infections in the community. The government will also lend RM50 to the consumer e-wallet after they download the MySejahtera application as announced by Prime Minister Tan Sri Muhyiddin Yassin at the National Economic Re-creation Plan (Generator) to encourage people to use the MySejahtera app. The aim was to encourage people to download and use the MySejahtera app. Similar applications in each state also play a role in helping the federal government to track Covid-19's close contacts to curb the spread of this pandemic. The states; applications can help break the Covid-19 chain and flattening the Malaysia Covid-19 graph curve.

REFERENCES :

1. Nor Azizah Mokhtar. 2020. Covid-19 Updated the Latest Version of Gerak Malaysia Application. Kuala Lumpur: Daily News. Retrieved June 10, 2020 from <https://www.bharian.com.my/berita/nasional/2020/05/685866/covid-19-kemas-kini-aplikasi-gerak-malaysia-versi-terkini-25>
2. Zanariah Abd Mutalib dan Suzalina Halid. 2020. MyTrace Helps Government Impact, Decides The COVID-19 Outbreak. Kuala Lumpur: Daily News. Kuala Lumpur: Berita Harian. Retrieved May 3, 2020 from <https://www.bharian.com.my/berita/nasional/2020/05/684655/mytrace-bantu-kerajaan-kesan-putuskan-wabak-covid-19>
3. Rafidah Mat Ruzki; Mohd Iskandar Ibrahim; Ilah Hafiz Aziz dan Fahmy A Rosli. 2020. COVID-19: Take Advantage of MySejahtera. Kuala Lumpur: Daily News. Retrieved May 4, 2020 from <https://www.bharian.com.my/berita/nasional/2020/05/685133/covid-19-manfaatkan-mysejahtera>
4. Zanariah Abd Mutalib, Luqman Arif Abdul Karim & Faris Fuad. 2020. 'Hotspot Tracker' helps detect COVID-19 positive 1km radius. Kuala Lumpur: Daily News. Retrieved May 28, 2020 from <https://www.bharian.com.my/berita/nasional/2020/05/693767/hotspot-tracker-bantu-kesan-kes-positif-covid-19-radius-1km>
5. Ahmad Suhael Adnan & Ilah Hafiz Aziz. 2020. Use the MySejahtera Check-In visitor list. Kuala Lumpur: Daily News. Retrieved May 31, 2020 from <https://www.bharian.com.my/berita/nasional/2020/05/694798/guna-mysejahtera-check-daftar-pelawat>
6. Nor Azizah Mokhtar. 2020. COVID-19: No QR code cross-state is not available. Kuala Lumpur: Daily News. Retrieved May 6, 2020 from <https://www.bharian.com.my/berita/nasional/2020/05/685926/covid-19-tiada-kod-qr-tak-boleh-rentas-negeri>

7. Bernama. 2020. COVID-19: Smartphone application of motion effects. Kuala Lumpur: Daily News. Retrieved March 26, 2020 from <https://www.bharian.com.my/berita/nasional/2020/03/669648/covid-19-aplikasi-telefon-pintar-kesan-pergerakan>
8. Nor Azizah Mokhtar. 2020. COVID-19: Directional application, police blockbuster navigation. Kuala Lumpur: Daily News. Retrieved March 29, 2020 from <https://www.bharian.com.my/berita/nasional/2020/03/670717/covid-19-aplikasi-panduan-arrah-navigasi-dedah-sekatan-polis>
9. Daily Nwes Reporter. 2020. MySejahtera application, MyTrace makes it easy to track contacts. Kuala Lumpur: Daily News. Retrieved May 1, 2020 from <https://www.bharian.com.my/berita/nasional/2020/05/683831/aplikasi-mysejahtera-mytrace-mudahkan-pengesanan-kontak>
10. Khairunnisa Kasnoon. 2020. MySejahtera app, what you need to know. Kuala Lumpur: Astroawani. Retrieved May 11, 2020 from <http://www.astroawani.com/berita-malaysia/aplikasi-mysejahtera-apa-yang-anda-perlu-tahu-242310>
11. Nabihah Kamal. 2020. MySejahtera Initiative disconnects the Covid-19 chain. Kuala Lumpur: Daily Metro. Retrieved May 6, 2020 from <https://www.hmetro.com.my/mutakhir/2020/05/575441/mysejahtera-inisiatif-putuskan-rantaian-covid-19-metrotv>
12. Bernama. 3 government app for Play Store. 2020. Kuala Lumpur: Daily Metro. Retrieved May 7, 2020 from <https://www.hmetro.com.my/mutakhir/2020/05/575652/3-aplikasi-kerajaan-ungguli-play-store>
13. Zubir Sulaiman. 2020. People are encouraged to download the application MySejahtera. Kuala Lumpur: Daily Shine. Retrieved June 8, 2020 from <https://www.sinarharian.com.my/article/86814/KHAS/Koronavirus/Rakyat-disaran-muat-turun-aplikasi-MySejahtera>
14. Siti Aisyah Narudin. 2020. Sabah launches 'sabahtrace' application. Kota Kinabalu: Borneo Online Messenger. Retrieved May 18, 2020 from <https://www.utusanborneo.com.my/2020/05/18/sabah-lancar-aplikasi-sabahtra>
15. Astro Awani. 2020. Fight COVID-19: Sarawak launches COVIDTrace and Qmunity applications. Kuala Lumpur: Astroawani. Retrieved May 29, 2020 from <http://www.astroawani.com/berita-malaysia/perangi-covid-19-sarawak-lancar-aplikasi-covidtrace-dan-qmunity-244766>
16. Bernama. 2020. The 'Johor Track' app helps with contact detection, preventing COVID-19 transmission. Kuala Lumpur: Bernama. Retrieved May 21, 2020 from https://bernama.com/bm/am/news_covid-19.php?id=1844079
17. Muhammad Aminnuraliff. 2020. 148,432 premises to use A Single Step Trace Covid-19 application. Kuala Lumpur: Daily Shine. Retrieved May 9, 2020 from <https://www.sinarharian.com.my/article/82707/EDISI/Selangor-KL/148432-premis-guna-aplikasi-SELangkah-kesan-Covid-19>
18. Nur Izzati Mohamad. 2020. The PGcare app helps trace contacts. Kuala Lumpur: Daily Metro. Retrieved May 15, 2020 from <https://www.hmetro.com.my/mutakhir/2020/05/578727/aplikasi-pgcare-bantu-kesan-kontak>
19. Rahayu Mustafa. 2020. Terengganu set up an online bazaar following no Ramadan bazaar. Kuala Lumpur: Daily Shine. Retrieved March 30, 2020 from <https://www.sinarharian.com.my/article/76423/EDISI/Terengganu/Terengganu-wujudkan-bazar-online-susulan-tiada-bazar-Ramadan>