



UNIVERSITI TEKNOLOGI MARA

**iCovMAS: INTERACTIVE WEB MAPPING OF
NOVEL CORONA-VIRUS CLUSTER**

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Thesis submitted in fulfilment of
requirements for the degree of
Bachelor of Surveying Science and Geomatics (Hons)

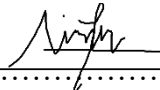
Faculty of Architecture, Planning, and Surveying

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AUTHOR'S DECLARATION

I declare that the work in this thesis/dissertation was carried out in accordance with the regulations of Universiti Teknologi MARA. It is original and results from my own work unless otherwise indicated or acknowledged as referenced work. This thesis has not been submitted to any other academic institution or non-academic institution for any degree or qualification.

I, hereby, acknowledge that I have been supplied with the Academic Rules and Regulations for Post Graduate, Universiti Teknologi MARA, regulating my study and research.

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ABSTRACT

Coronavirus disease (COVID-19) is an infectious disease caused by a newly discovered coronavirus disease. Many people infected with COVID-19 will experience mild to moderate symptoms and recover without the use of antiviral agents. The aim of this study to develop an interactive web-mapping of the COVID-19 cluster. The objectives of this study are to obtain the perspective of the respondent about the need for web-mapping. Secondly, to visualize current online datasets of cluster COVID-19 disease cases. The study areas will cover Malaysia's whole since a rapidly increasing number of citizens are affected by this virus. To be specific, this study will focus on a cluster of COVID-19. The data are freely shared by referring to the Ministry of Health (MOH) channel, and it is in real-time. Thus, all the data are manually inserted using Mobile Data Collection (MDC) and process in ArcGIS Online. This study is significant to raise public awareness of the virus, especially among Malaysian citizens. Therefore, people are more concerned and obey all the Standard Operating Procedure (SOP) provided by the government to prevent the spread of the COVID-19. Finally, map information will also help the MOH assess the disease's severity if it occurs elsewhere, and to achieve the Sustainable Development Goals (SDGs), which is i) Goal 3: Good Health and Well-Being, ii) Goal 11: Sustainable Cities and Communities, and iii) Goal 8: Decent works and economic growth.

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