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WEB-BASED APPLICATIONS FOR TRANSMISSION TOWER INFORMATION SYSTEM IN SELANGOR

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DECLARATION

I declare that the work on this project/dissertation was carried out in accordance with the regulations of Universiti Teknologi MARA (UiTM). This project/dissertation is original and it is the result of my work, unless otherwise indicated or acknowledged as referenced work.

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ABSTRACT

A transmission tower information system is a digital platform that helps monitor, analyze, and manage data related to their essential services, enhancing efficiency and decision-making in transmission tower management. This matter is very familiar in countries worldwide, but Malaysia still needs exposure to the transmission tower information system. In this study, the problem statement is the challenges managers and planners face in managing data and spatial integration within Management Information Systems. This study aims to develop an interactive web-based transmission tower information system. The objective is to design a user-friendly web platform for transmission tower data display and to evaluate the effectiveness of GIS web-based in Urban Planning. The methodology involves gathering requirements from urban utility providers, creating the interactive web-based system using ArcGIS Pro, and conducting comprehensive testing to ensure functionality, security, and usability. The results are web based development and evaluating effectiveness using Statistical Package for the Social Science (SPSS) that can significantly contribute to various sectors achieving Sustainable Development Goals (SDGs) number 11, which is sustainable cities and communities. This research deeds to revolutionize urban utility management and facilitate sustainable development across different domains.

Keywords: Transmission Tower, Information Systems, web-based, Urban Planning

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