UNIVERSITI TEKNOLOGI MARA

ANDROID APPLICATION FOR MONITORING SOLID WASTE & PUBLIC CLEANSING INVENTORY DATA AT ARAU, PERLIS

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Thesis submitted in fulfillment of the requirements for the degree of Bachelor of Surveying Science & Geomatics (AP 220)

Faculty of Architecture, Planning and Surveying

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

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ABSTRACT

The inventory map of solid waste and public cleansing are very important for E-Idaman Company to calculate the amount of claim of their service to the Perbadanan Sisa Pepejal. E-Idaman Company needs to printed map to identify the location of solid waste for verification and to show the inventory data of an area in many times that cause increasing the company costing and it not a handy equipment. This paper presents a study of using Android application to help E-Idaman Company have better platform to display the inventory map of solid waste and public cleansing in Arau, Perlis. The system use geographical information system (GIS) for processing the data of solid waste inventory and display the inventory in Android Application. The development of system is using Android Studio and ArcGIS 10.4.1. The result demonstrated that Android Application is a flexible tool with reasonable speed for developing solid waste management application and the inventory will display. The result feedback from user testing show that the majority of the user are positively agreed with the efficiently of this application in monitoring inventory data. User can easily find the location of solid waste by using this application. The map will display and give the information that need to be verifying after data editing before claim money to Perbadanan Pengurusan Sisa Pepejal dan Pembersihan Awam, PPSPPA. This application can help E-Idaman Company has a better platform and increasing the efficient in monitoring progress work include data collection.
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