UNIVERSITY TEKNOLOGI MARA

GEOGRAPHICAL INFORMATION SYSTEM DEVELOPMENT FOR LICENSING AND ENFORCEMENT DEPARTMENT OF MBSA (GIS-LED) USING SPATIAL DATA ANALYSIS

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2012

ACKNOWLEDGEMENT

Assalamualaikum W.B.T

All praises to Allah S.W.T, for all His bless during the completion of this proposal. I want to dedicate the deepest gratitude to those who had involved in contributing their help and support either directly or indirectly in making this proposal successful in reality. It has been a good to have the advices and guidance from many talented people, whose knowledge and skills have enhanced this proposal in many ways.

First of all, I would like to express profound gratitude to my supervisor, Pn Norisan Abd Karim, for her invaluable support, encouragement, supervision and useful suggestions throughout this research work. Her moral support and continuous guidance enabled me to complete my work successfully. I am also highly thankful to my coordinator, Assoc. Prof Rashidah Rawi and Mrs. Wan Amalina for their valuable suggestions throughout this study. Also not to forg*et al.*l the lecturers those always support and guide me throughout completing this thesis, Dr Ariza Nordin, Assoc. Prof Aisyah Ahmad, Mrs. Jamaliah Taslim and Dr Sharifalillah Nordin.

Special thanks go to Mr Sahrul Nizam, Mr Zakria Abdullah, and Mrs Noraziah Masara for his cooperation during the interview session. I am also grateful for cooperation of the all staffs those woks at Majlis Bandaraya Shah Alam for helping me gathering requirements for this project.

Moreover I would also like to convey my gratitude to my beloved parents that supported me along the way up here and all the respondents who contribute their answers in the observations that have been conducted.

To all of my friends who helped along the way, in completing this proposal, thank you so much and may success lead you.

Finally, to all mentioned here, may Allah S.W.T bless you all. Thank you.

ABSTRACT

This project aims to develop a Geographical Information System for Licensing and Enforcement Department (GIS-LED) of MBSA. The functionality of this system is to help the department monitor the information license registration and renewal for the enterprise signboard license, billboard license and bunting license in Shah Alam. The information on the license is basically a location based so an information system that based on geographical and location is needed. Geographical Information System (GIS) are software system that used for capturing, storing, managing and displaying spatial data. The ability of GIS to capture information such as the location of offenders, on to a GIS has important implications for the rapid and timely accumulation of spatial data and the conduct of the analysis. In order to develop the system, few analysis must been made using the spatial data analysis, and the system must integrate with spatial database management system. This thesis has four objectives that need to be achieved. The first objective is described the spatial data analysis used in developing GIS-LED. The second objective is identified the requirement in order to develop GIS-LED. The third and fourth objective is designed and demonstrates the design using a prototype of GIS-LED. The first objective is achieved through the description of GIS and spatial data analysis done in chapter literature review. Other objectives are achieved through interviewing the License and Enforcement Department and Information and Communication Technology Department. The result of the interview is been analyzed to obtain the requirement of the system development. The development of GIS-LED using spatial data analysis will assist the department of Licensing and Enforcement through the management and monitoring the license registration and renewal, and it also gives lots of benefit to the department.

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