UNIVERSITI TEKNOLOGI MARA

EVALUATING SERVICE QUALITY OF TOTAL HOSPITAL INFORMATION SYSTEM (THIS): A CASE STUDY AT HOSPITAL SUNGAI BULOH

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IT Project submitted in partial fulfillment of the requirements for the degree of Master of Science in Information Technology

Faculty of Computer and Mathematical Sciences

January 2015

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 is the results of my own work, unless otherwise indicated or acknowledged as referenced work. This thesis has not been submitted to any other academic institution or nonacademic 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 the conduct of my study and research.

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ABSTRACT

The quality of services play important roles in influence the success of information systems and user satisfaction. As one of the information system, Hospital Information System also can be evaluated in terms of service quality measurement. There are various types of users that using Total Hospital Information System (THIS) such as physician, nurse, allied health and others. Therefore, this research is focused on evaluating the service quality of Total Hospital Information System (THIS). There are three objectives in this research. The first objective is to investigate the service quality of Total Hospital Information System (THIS) for Hospital Sungai Buloh, second is to evaluate the service quality level of Total Hospital Information System (THIS) and while the third objective is to provide the recommendation to improve the service quality of Total Hospital Information System (THIS) at Hospital Sungai Buloh. In order to explore the concept of service quality based on information system (IS) context, the literature review has been conducted. There are five elements of service quality that has been identified in this research which are tangible, reliability, responsiveness, assurance and empathy. Besides, other components from User Information Satisfaction (UIS) measurement also has identified that influence the satisfaction of service quality which are user involvement, IS staff service and product quality. The IS SERVQUAL model has been adapted from Jiang et al. (2012) and has modified to suit this research objective. The descriptive analysis, inferential analysis and regression analysis have been chosen to measure the service quality level and getting the findings. Based on the results obtained, this study showed that the results in evaluating the service quality level which is perceived service quality are strongly related to the user satisfaction, expectation and perceptions are positively affecting the perceived service quality. Meanwhile, the different type of job positions positively affects the user satisfaction. Furthermore, all the SERVQUAL measurements had a Cronbach's alpha well above 0.7 that indicates high reliability and validity.

ACKNOWLEDGEMENT

In the name of God, the Most Gracious and the Most Merciful Alhamdulillah, all praises to Allah for the strengths and His blessing in completing this research. Without His blessing, I could not complete this research. Moreover, I would like to convey my appreciation for several people who giving me the guidance, support and contribution in completing this project.

First and foremost I offer my sincerest gratitude to my supervisor, Dr Jasber Kaur A/P Gian Singh, who has supported me throughout my thesis with his patience and knowledge whilst allowing me the room to work in my own way. I attribute the level of my Masters degree to her encouragement and effort and without him this thesis, too, would not have been completed or written. One simply could not wish for a better or friendlier supervisor.

In addition, I would like to thank to my Research Methodology for Information Technology's Lecturer, Dr. Emma Ibrahim, for her guidance and information. All the guidance and information are valuable to me.

Last but not least, I would like the thank and express my great appreciation to my understanding husband Hasnirol Mat Hassan, who support me a lot and encouraged me in completing this research. Besides, I would like to thank to my parents, families and friends who also gave a support to me and their pray throughout my master's studies. Thank you so much. May Allah bless all you.

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