UNIVERSITI TEKNOLOGI MARA

EXPLORATORY STUDY OF LEARNING INTERFACE FOR SLOW LEARNER CHILDREN

SUHAIDA BINTI YUSOF

Report submitted in partial fulfillment of the requirements for the degree of

Master of Science (Information Technology)

Faculty of Computer and Mathematical Sciences

July 2013

CANDIDATE'S DECLARATION

I declare that the work in this thesis that was carried out in accordance with the regulations of Universiti Teknologi MARA. It is original and is the result of 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 other master or qualification.

In the event that my thesis found to violate the conditions mentioned above, I voluntarily waive the right of conferment of my master and agree to be subjected to the disciplinary rules and regulations of Universiti Teknologi MARA.

Name of candidate   :   Suhaida binti Yusof
Candidate's ID No   :   2011377877
Programme   :   Master of Science in Information Technology
Faculty   :   Faculty of Computer and Mathematical Sciences
Thesis title   :   Exploratory Study of Learning Interface for Slow Learner Children

Signature of candidate   :
Date   :   31 July 2013

ABSTRACT

Slow learner children always being left behind because of their status of not qualified for special education but they all have trouble learning and keeping up in school. Currently, there are not many research studies done on the technology that can help slow learner children learned better in their classroom. This study explored the suitable design elements of learning interface for the slow learner children based on their learning behaviours and learning style. Qualitative research methodology was used for data collection such as semi-structured interview, direct observation and user study. The instruments used were the questionnaires, checklist and audio/video recording. The study was conducted with the 3 slow learner children aged 7-9 years old at one primary school in Kuala Lumpur. The purposed of this study was to recommend suitable design elements of learning interface for slow learner children and hope that for the future research, some prototype can be design and develop based on the recommended interface design.

Keywords : *Interface Design, Slow Learner Children*

ACKNOWLEDGEMENT

"In the name of ALLAH, the Most Merciful, the Most Gracious"

Bismillahhirrahmanirrahim...

Assalammualaikum, wbrth

First of all I would like to thankful to Allah SWT because I have successfully completed my research on "Exploratory Study of Learning Interface for Slow Learner Children". Hence, I want to take this opportunity to thanks and give my appreciation to my supervisor, Dr. Fariza Hanis bt Abdul Razak which always help me in doing my research project, give me ideas and opinions, and always guidance me in completing this research. Thank you for being understanding and patient supporting me from beginning until end of this research.

Secondly, I also would like to give my appreciation to Datin Sakinah binti Omar, as her permission to conduct the observation at the Sekolah Kebangsaan Sri Hartamas, and Puan Natrah binti Abdul Manaf for helping me in selecting the children and also during conducting the observation. Also to my beloved husband, En Hamzah Bin Kasim, mother Pn Hajah Latifah Abdul Majid and mother-in-law Pn Hajah Rabiah binti Yatim that always give support behind me and pray for my success. Last but not least, my adorable sons and daughter, Muhammad Haziq Hamzah, Muhammad Hadi Hamzah and Siti Khadijah Hamzah for being such understanding and patient towards finishing my research.

Lastly, I would like to thanks to all of my friends and other persons that involved either direct or indirectly in completing this research and I hope that this research does not end here but it can be used for future educational and can give beneficial for children with slow learner problem research area.

Thank you.

TABLE OF CONTENTS