

Universiti Teknologi MARA (Perak)

**The Prototype of Mobile Application for
Dyslexic Children In Writing Skill Ability**

(CinTA)

WAN NORAZLIN BINTI WAN AZMAN

**Thesis submitted in fulfillment of the requirements for
Bachelor of Computer Science (Hons) Computer
Science Faculty of Computer and Mathematical
Science**

29 January 2016

SUPERVISOR'S APPROVAL

MOBILE APPLICATION FOR DYSLEXIC CHILDREN IN WRITING ABILITY SKILL

By

**WAN NORAZLIN WAN AZMAN
2013565383**

This report was prepared under the supervision of the project supervisor, Puan Nur Hasni Nasrudin. It was submitted to the Faculty of Computer and Mathematical Science and was accepted in partial fulfillment of the requirements for the degree of Bachelor of Computer Science (Hons) Computer Science.

Approved by


.....
NUR HASNI BINTI NASRUDIN
Thesis Supervisor

JANUARY 29, 2016

STUDENT'S DECLARATION

I certify that this report and the project to which it refers is the product of my own work and that any idea or quotation from the work of other people, published or otherwise are fully acknowledgment in accordance with the standard referring practices of the discipline.



.....
WAN NORAZLIN WAN AZMAN
2013565383

JANUARY 29, 2016

ACKNOWLEDGEMENT

Alhamdulillah praises and thanks to Allah because of His Almighty and His utmost blessings, I was able to finish this report for final year project (CSC650) within the time duration given. Firstly, my special thanks go to my supervisor Puan Nur Hasni Nasrudin and co-supervisor Puan Anis Zafirah Azmi. I am grateful of having and for guiding me to complete this research. Furthermore, with the continual support and cooperation in assisting me all the way through this semester by them I have been able to complete this research completely. Basically, when I totally blank when doing this research my supervisor always give me mentality motivation to complete it.

Special appreciation to Puan Nor Hayati Ismail, teacher at SK Sultan Ahmad Tajuddin, Kedah that willing to spend time and give me a lot of useful and accurate meaningful information about dyslexic student. Special appreciation goes to my parents Che Noriza Ahmad and Wan Azman Wan Yahaya for giving me motivation and support. Without them, I totally cannot finish this research.

Last but not least, I would like to give my gratitude to my dearest friend Noor Ismahani Hasbullah, Nur Dalila Mustapha, Nur Syazatul Nadia Rosli for sharing information and give contribution when doing this project. Furthermore for beloved classmate and housemate for their support and help for this project because given me courage and energy to complete this project.

ABSTRACT

This research is about developing the mobile application for dyslexic children that having writing skill ability between ages 5 years to 10 years. This mobile application was choosing Android as the main platform because the ratings of user that use mobile phone in Android platform are rapidly increased. The dual coding theory has been implemented in this project because dyslexic children use the right brain to learn and understand something that make them confuse. When a lot of multimedia component be added in this application, it totally can get 100 % of dyslexic children interest. Basically, the writing skill ability of dyslexic children is chosen because the writing skills are important part before the children being able to writing and reading. A dyslexic child has to know the alphabetic knowledge first before start to next step. The alphabetic knowledge means how the structure of the alphabet, what are the name of the alphabet, how to identify the alphabet and others. The writing skill ability will chose as the main ability problem and the alphabetic knowledge will be focused because it related with the problem that has been discussed. Puan Nor Hayati Ismail, a teacher that teach dyslexic children in SK Sultan Ahmad Tajuddin has been used the wonderful technique to dyslexic children to overcome the alphabetic knowledge problem. This technique will be applied in this mobile application due to the awareness to share this technique to the society. For the future work, the databases that can keep children score and add more module is being suggested. The more interactive and module being added can make the children more enjoying to do it.