USER INTERFACE DESIGN AND HANDWRITING RECOGNITION FOR PRESCHOOL CHILDREN (HLN)

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UNIVERSITI UTARA MALAYSIA
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USER INTERFACE DESIGN OG HANDWRITING
RECOGNITION FOR PRESCHOOL CHILDREN
(HLN)

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By
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ABSTRACT

This project will find about the requirement that involve developing the user interface of handwriting recognition for preschool children. The requirement will focus on the functional requirement and design requirement. Observation, survey, interview and questioner are used to get the entire requirements that are need. The relative advantage and disadvantage of each method are discussed. Prototype develops based on the gathering further requirement by surveying children outline. The handwriting recognition system will improve the preschool children learn how to write the alphabet using computer besides using the pen and paper.
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<tr>
<td>HLN</td>
<td>Handwriting- based Learning Number</td>
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<td>OHR</td>
<td>Optical Handwriting Recognition</td>
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<td>QUIS</td>
<td>Questionnaire for User Interface Satisfaction</td>
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<td>swf</td>
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CHAPTER 1

INTRODUCTION

This chapter contains an overview of the study, problem statement, objectives, scope and significance of study. This chapter ends by describing the report's structure.

1.1 Introduction

Learning to write is one of the most-essential skills children will ever learn. Typing on the keyboard is obviously a very useful skill but writing by hand more important especially for preschool children[1]. This is because writing can develop sensorimotor and it must develop in early aged. Sensorimotor skills tasks require an established or optimal strategy and a sequence of operation/movement. In the UK classroom, children spend between 30% and 60% of their school classroom time doing writing activities[2]. A person can learn how to carry out a sensorimotor skills task by seeing how an expert or a video does the same task. However, there is certain learning tasks that are require a trainer to physically interact with a trainee. For example learning handwriting, medical procedures, painting/sculpting techniques and sport that need
The contents of the thesis is for internal user only
For future development and expansion of this research, the followings are suggested:

i. Implement the visual and audio guided information to attract the preschool children to use it and enhance user learning by follow step by step write number.

ii. Enhance the system to online handwriting recognition.

6.4 Summary

Overall the objective of this study has been achieved which is to produce a prototype and find the requirement for user interface design. Handwriting – based Learning Number (HLN) prototype was developed to enhance handwriting for preschool children to write number. The prototype was evaluated and the results confirms that the user satisfy the user interface design.
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