

Universiti Teknologi MARA

**An Interactive Gaming Approach for children with
Autism: An Islamic perspective**

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ABSTARCT

Nowadays, computer learning based have become more popular way for a children to learn. With the interesting design interface, user friendly interface and good interactivity will attract the children's attention. This interactive game application for children with autism (5 to 8 years old) is focusing on the way to help the children to improve their moral and behavior skills. Game-based application will be used to helps the children with autism learn the situation of Islamic behavior (akhlak) for them to improve their moral and behavior skills.

There are many Muslim immigrant families who have children with disabilities. There is a growing identification in research on children with disabilities that religious beliefs can play an important role in how individuals understand and explain disability. Attractive and simplistic game is needed for children with Autism Spectrum Disorder (ASDs) to keep the children engaged with the computer application.

In developing this project, the purpose of the research is to design an interactive game for children with autism to help them to understand moral values with an Islamic perspective.

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CHAPTER 1

INTRODUCTION

1.1 Background of Study

Autism patient have difficulty in behavior skills and due to this disability, they cannot get along with others like other human being. A study from (Mohamed, Sehaba, Courboulay, & Menard, 2006) stated that autism is not affection, but a developmental disability of the brain function. According to Johnson (2004) said that autism is a life-long developmental disability that affects the way a person communicates and relates to people around them. Furthermore, to encourage the children with autism there are many technologies and games that design to help them to overcome their daily limitations. The effective way through games, player emotions need to be recognized and interpreted, and an emotional experience needs to be created that motivates players and deepens learning (Dormann & Biddle, 2008).

In this project, it will involve the computer based game which requires the children with the autism to learn Islamic moral (akhlak). With the improvement of computer technologies in word processing, multimedia and communication can help children with autism to be at the same level with any other normal kids (Wan Ahmad, P. Akhir, & Azmee, 2010). Nowadays, there are lots of games that related to autism but there is no games related to autism with an Islamic perspective.