INTRODUCTION

1.1 Introduction

e-DOA is a mobile application that develop for autism children. This application exposing and teaching an autism children about basic daily prayer or do’a. The application will be using a mobile application software platform and can be run on smartphone and other mobile devices. This mobile application purpose is to make autism children will practice Doa in their daily life.

Autism is an neurodevelopmental disorder that ussually during first three years[1]. Autism cannot be cured, but can be reduced by early identificatin and treatment. Autism can affect one who is not dependent on ethnicity, educational level, social and economic[2].

Doa is a request for help and assistance by a servant of God for benefit of us, family, and afterlife (Al-Imam al-Khattabi). In Islamic religion, prayer is the necessary (fardhu) for a Muslim. Daily prayer is a collection of prayers, but crucial in our daily work and as was practice by our prophet Muhammad[3]. Because all prayer and remembrance is in Arabic, then recommended to the reader to learn reading prayer text or remembrance of those who may or understand Arabic so that every sentence is read correctly in terms of reading and meaning as when reading changes, then means also will change.
1.2 Problem Statement

e-DOA is a mobile application that will be develop to enhance the functionality of the previous system. The application is develop based on these problems below:

i. From the previous mobile application system that teaches Doa only develop for normal children. So, e-DOA will develop the prototype of mobile application for autism children that teaches daily Doa.

ii. Learning process confined to textbooks is not interactive. This is because textbook can only be read and seen in the 2-dimension. As a result, the system is developing in 3-dimensional effect to get children attraction and give them an effect of 'realism' so that the child will feel more fun while learning.

iii. There a lot of Doa in Muslim daily life that we have to remember. So, the application will only include 20 types of basic Doa in our daily life (reference: Jabatan Kemajuan Islam Malaysia-JAKIM 2010).

1.3 Objectives

The objectives of this project are shown below;

i. To develop a prototype of a Doa mobile application using Android smartphone for autism children.

ii. To teach autism children’s about the daily Doa by using a voice teaching technique.

iii. To study the effectiveness of Doa modules teaching of for autism children by conducting a testing to users.
1.4 Scope

The scope and the limitation of the system that will be implemented are below:

i. e-DOA users
   - Autism Children
   - Teacher (assistant)

ii. e-DOA will be used Arabic & Malay Language

iii. e-DOA only cover 20 type of different daily Doa and 5 Zikir

iv. Software requirement
   - Adobe Flash – For editing and develop the application
   - Adobe Photoshop – For editing an icon and cartoons images
   - Windows 7 (OS) – For project development
   - Microsoft Word 2010 – Documentation
   - Mobile Device (Android) – For system product testing
   - Audacity – For recording the audio

1.5 Thesis Organization

This thesis consists of this project have five chapters:

Chapter 1 discuss on the introduction of the courseware. The purpose of this chapter is to briefly explain about the overview courseware that is developed. This chapter also include the problem statements, objectives and the scope of the study.