

CHAPTER I

INTRODUCTION

1.0 Introduction

Nowadays, pupils in primary schools in Malaysia always been burdened by bunch of textbooks on their back in their backpacks which considered to be the factor of the backbone problems on those pupils. Parents been complaining and murmuring about this problems and obstacles since this problems is still being an issue among teachers and parents; it is however still not solved. Teachers still working hard in finding the solution for the pupils.

Hence, iBook is promoted and invented in order to overcome those constrains faced by those pupils. This new invention will be able to eliminate bunches of books on those pupils' back, thus solving the parents' and teachers' problems. This new products of high technological application will be applied in Apples' iPad Tablet, a line of tablet computers designed, developed and marketed by Apple Inc. , which primarily invented as a platform for audio-visual media consisting books, periodicals, movies, music, games and also web content which will be supplied in the classroom. So, those pupils will refer to their e-Textbooks during the learning process and do not have to bring those heavy old-fashioned textbooks anymore.

There is one general method used to discover services on a Local Area Network (LAN), which is also widely used through Mac OS X and allows user to set up or build up any network without any configuration, called Apple's Bonjour Protocol. This protocol earlier known as Rendezvous which is Apple Inc.'s trade name for its implementation of Zeroconf, a service discovery protocol. This Rendezvous application later renamed as Bonjour in 2005 because of some trademark issues. Bonjour able to enable the auto discovery of computers, devices and services on IP networks by using the industry standard IP protocols.

The transfer of information or data between two or more points that are not connected is known as Wireless telecommunications. So, the implementation of this technology inward the school learning process will turn the old-fashioned classrooms to become one electronic classroom. This type of classroom is called electronic because it will consume no textbooks but all the electronic gadgets in their learning process. All the contents and the subject outcomes of the subject will be delivered using the iPad, and no more books.

This way, the obstacles n constrains faced by pupils, parents, and especially teachers would be solved and overcome by the invention of e-Textbook using Apples' Bonjour Protocol for wireless electronic classrooms.

1.1 Problem Statement

One of the current issues in the education department is the heavy backpacks of pupils in primary schools, which caused of bunch of textbooks in their backpacks. These happens when the syllabuses for the pupils nowadays are increasing as years passes, hence the textbooks also increase in number. Nevertheless, this problem keeps bothering every party, teachers, parents, and even the pupils themselves.

On the other hand, teachers always worried of their pupils in the range of 6 to 12 years old kids, who are so young and might not be able to manage even themselves to manage all their bunch of textbooks, exercise books, and other handouts or many more

papers. Some of them might also forget or leave their textbooks behind or at home and will have problems in following and joining the lessons because of them having no textbooks.

In fact, teachers nowadays are getting worried towards the pupils because in this challenging era, the pupils who are kids, are more interested and attracted to technologies, televisions, games and cartoons rather than attending classes with all those tedious textbooks. They always seem full of tediousness during the lessons and not paying their full attentions on the lesson.

As from this entire problem, it seems that they need something to deal with the problem. They need an invention that will help them to deal with heavy book problem, and to have a more interesting learning session, so that their performance in class is improved, thus helping the students to achieve better grades in exams.

1.2 Objectives

The objectives of this project are:

- To implement Apple's Bonjour Protocol in electronic classrooms.
- To apply the Bonjour Protocol in a wireless, zero-configuration teaching, learning and assessment process.
- To explore the feasibility of a wireless and paperless classroom environment.

1.3 Scopes

The scopes of this project are:

- The iBook developed is implementing Apples' Bonjour Protocol
- The Apple's iPads are used in electronic classroom process
- The e-Textbook displays all the contents in the textbooks