

CHAPTER 1

INTRODUCTION

1.1 Background

Nowadays, people in the world are prefer to use smart phone, which is a mobile phone that can interact more advanced in computing ability rather than mobile phone or cellular phone, which is an electronic device that can be used for two way radio communication because it has the multimedia capabilities like video and music viewing with high contrast screen are better than mobile phone. Also, the user interface of smart phone is much faster navigation and more attractive. Then, smart phone can connect to the internet for e-mail, web browser and some cellular provider provides to always connect to the internet (ex: internet unlimited for BlackBerry, and unlimited internet). There are a few examples of smart phone operating system which are BlackBerry, Android, Symbian, iOS (iPhone OS), and Windows Phone. According to Gartner, the share of the worldwide 2010 Q4 smart phone sales to end users by operating system can be summarized as following [1]:

**Worldwide Smartphone Sales to End Users by Operating System in 2010
(Thousands of Units)**

Company	2010 Units	2010 Market Share (%)	2009 Units	2009 Market Share (%)
Symbian	111,576.7	37.6	80,878.3	46.9
Android	67,224.5	22.7	6,798.4	3.9
Research In Motion	47,451.6	16.0	34,346.6	19.9
iOS	46,598.3	15.7	24,889.7	14.4
Microsoft	12,378.2	4.2	15,031.0	8.7
Other Oss	11417.4	3.8	10432.1	6.1
Total	296,646.6	100.0	172,376.1	100.0

Source: Gartner (February 2011)

Figure 1: Share of worldwide 2010 Q4 smart phone sales to end users by operating system [1]

Based on Gartner research and analysis, it can be concluded that in the fourth quarter of 2010, Symbian market share dropped 9 percent from 2009 to 2010. Android took this chance and grew 888 percent in the end of 2010, and moved from last position to number 2. Also, Research in Motion decreased its market share from 19.9 percent to 16 percent.

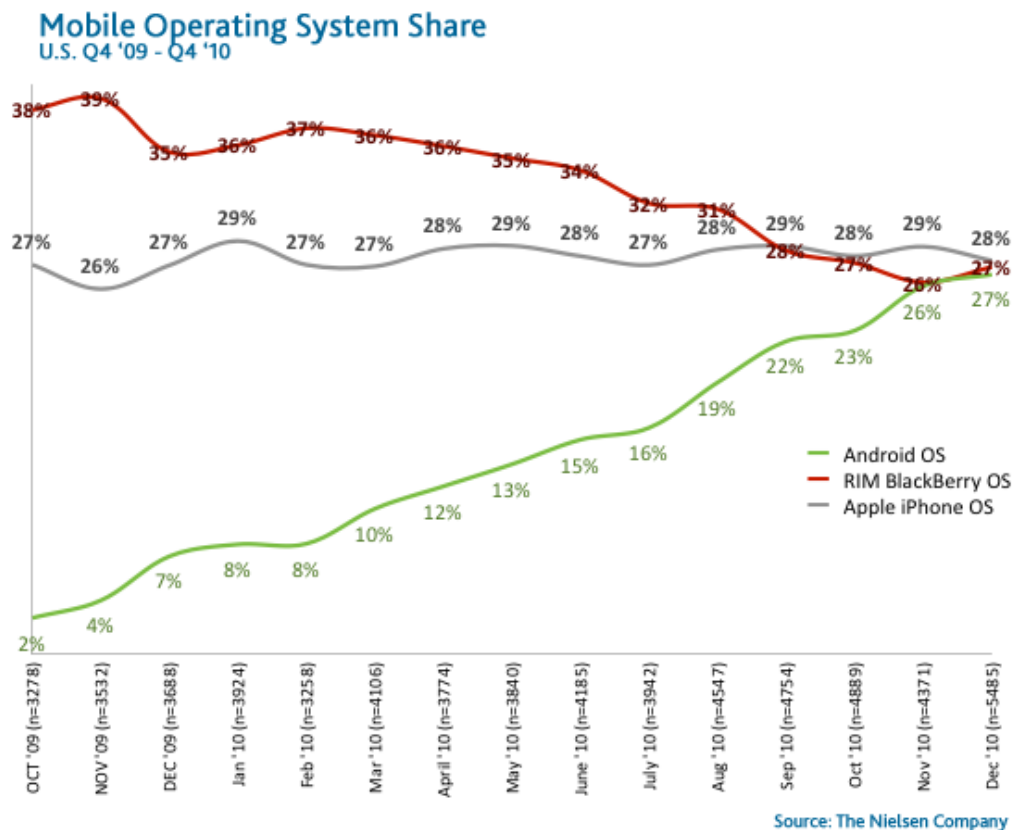


Figure 2: Mobile Operating System Share in U.S. Q4'09 – Q4'10 [2]

Based on Nielsen Company, Android Operating System is highly increasing their market share from fourth quarter of 2009 until fourth quarter of 2010. There are a few factors that make Android is rocketing their market share. First, Android is an open source platform, it means that the code is available for people to view and even edit the code. Also, the application you want to download is much more free rather than paid. Android allows the user to install the third application, so that the user freely to install or not. In fact, the other developer must get the permission before the installation. Android also has the cooperation with Google. On the other hand, RIM BlackBerry OS is decreasing their market share from 38% until 28% although the Apple iPhone OS is quite stable their market share.

Based on the statistic, the author wants to give the explanation to the users about the market share of BlackBerry and Android. Then the users will see the opportunities for the future of both operating systems. Also, the other reason that the author wants to research is BlackBerry and Android are quite unique because one is decelerating and the other one is accelerating, so that the author wants to show why the Android is accelerating and want to show why the BlackBerry still have future for their decelerating. Besides, the author wants to give the more in technical aspects like performance, features, and security to the users then the user will decide which one is better than the other that is why the research the author want to do is about the comparison between BlackBerry Torch 9800 (latest RIM BlackBerry OS) and Samsung Galaxy S (Android OS).

1.2 Scope:

The scope will cover about comparison and usage of BlackBerry Smartphone and Android Smartphone as state bellow:

- Explanation about BlackBerry OS and Android OS.
- Compare the technical aspects both of the operating system.

1.3 Aims and Benefits:

The purpose of this research is to identify the reason why the Android is accelerating and to show the reason whether the BlackBerry still has future with the technological aspect and practical aspect. Also, the author gives the information about

the advantages, disadvantages, and the user's perspective about this operating system. Then it will give more knowledge to people who want to use a smart phone either BlackBerry Torch 9800 or Samsung Galaxy S as a case study. The author also expects that this research will be journal articles.

1.4 Structures:

The structures of this thesis are:

Chapter 1 Introduction

This chapter contains the thesis background, scope, aims and benefits of reasoning to choose this topic.

Chapter 2 Theoretical Foundation

This chapter covers theoretical foundation and frameworks about the technologies in general; the history, features, specifications, security, and applications which will be support the solution of the problem.

Chapter 3 Problem Analysis

This chapter covers the main problems and analyzes the thesis.

Chapter 4 Research Design

This chapter describes the comparison, analysis, and the different between both operating systems and steps of designing the solution for the problem.

Chapter 5 Results

This chapter discusses the results and observations of the solution.

Chapter 6 Evaluation and Discussion

This chapter is to evaluate and clarify the most important results.

Chapter 7 Conclusion

This section contains the general conclusion of the result and contains suggestion of all research method.