A STUDY OF ANDROID OPERATING SYSTEM WITH RESPECT WITH USERS SATISFACTION

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ABSTRACT

Android mobile operating system is based on the Linux kernel and is developed by Google. Android operating system is primarily designed for smart phones and tablets. Since Android is an open source it has become the fastest growing mobile operating system For Android, based on results from several research firms, using current market statistics and popularity among developers and end-users.

All the flimflams and excitement about the costlier iphones and Blackberrys are vanishing, after the arrival of the most anticipated, open source mobile operating system, the Google Android, which is fated to turn the industry upside down.

This Project Report is to measure the Satisfaction level of Android Operating System; Customer Satisfaction is a measure of how products and services supplied by a company meet customer expectation. Customer satisfaction is critical if a company is to register high sales profits.

The project is done to know, how much a consumer is satisfied about the Android Operating System and current market scenarios of Android Operating System and what additional features should company introduce to increase the potential customer

Keywords: Android, Operating System, Security

I. INTRODUCTION

Today in present era, the usage of cell phones which also called as mobile phones is increasing day by day throughout the world. The same thing is also happening in India. There are various technologies are introduced in cell phones day by day. According to India, there are so many marketers/ companies are producing various mobile phones with different operating system and technologies. The main popular OS used in India are Android, Symbian, and Apple OS etc. The mobile operating system had clearly a big impact over the smart phone market, additionally with a lot of users down the line and also some tech giants like Google Android OS has a great leap OS in market.

A mini survey has been taken among the people who are using this OS. Android operating system is one of the most widely used mobile Operating System these days. Since Android is an open source it has become the fastest growing mobile operating system. Due to its open nature it has become favourite for many consumers and developers. Moreover software developers can easily modify and add enhanced feature in it to meet the latest requirements of the mobile technology. Android Powerful development framework users as well software developers are able to create their own applications for wide range of devices.

Some of the key features of Android operating system are:

- Application Frame work, Dalvik virtual machine, Integrated browser, Optimized Graphics, SQLite.

- Media Support, GSM Technology, Bluetooth, Edge, 3G, Wi-Fi, Camera and GPS etc. To help the developers for better software development Android provides Android Software development kit (SDK).

- It provides Java programming Language for application development. The Android software development kit includes a debugger, libraries, a handset emulator based on QEMU (Quick Emu).

The Study of this Project helped me to know current marke Scenarios of User Satisfaction on Android Operating System and also variety of services it offers to Users

II. LITERATURE REVIEW

Android is a Linux-based operating system designed primarily for touch screen mobile devices such as smartphones and tablet computers. Initially developed by Android, Inc., which Google backed financially and later bought in 2005. Android was unveiled in 2007 along with the founding of the Open Handset Alliance: a consortium of hardware, users. Using a mobile OS would be more effective than using a desktop OS because the resource. Requirements of mobile OS are smaller. This section discusses to construct multitenant Architecture for Android. Figure shows an overview of the architecture Android on a server. Android system info is drawn upon Google's "Application Developers" document. There are three types of approach, hypervisor-layer, kernel layer And framework-layer, for multi-tenant architecture. The hypervisor-layer approach uses the Virtual Smartphone over IP system. Each user owns his/her Android OS image on a server and freely runs his/her application in a separate VM Multi-tenancy is achieved by running multiple users VMs in a server via a hyper-visor. This approach has the advantage of application usability and maintenance. From the viewpoint of application usability, every mobile application that can run on Android-x86 is usable because each Android OS runs only one application. Android has different versions and version up is currently on going. The second approach implements multi-tenant function in kernel-layer.This approach changes Android OS to run multiple user applications in Separate processes. This approach is similar to an ordinary thin client server running multiple user applications in a server. The main challenge is that original Android supports only one display and keypad device since Android is mainly designed to work on a smartphone.

2.1 Research Methodology
This study is based on both primary and secondary data sources. Primary data was collected through questionnaire

2.2 Research Design
The data have been grouped into two main categories - primary and secondary data. The Secondary data have been compiled from newspaper, journals, magazines, and web links and also research papers. The primary data have been collected through an exploratory research –Questionnaire with user and non user of mobile banking.

2.3 Primary Data
The data for the research is extracted from a survey conducted in Pune, India. A Total of 150 respondents participated in the research of Mobile banking application. The demographic Profile of respondents in each research is shown in Table and
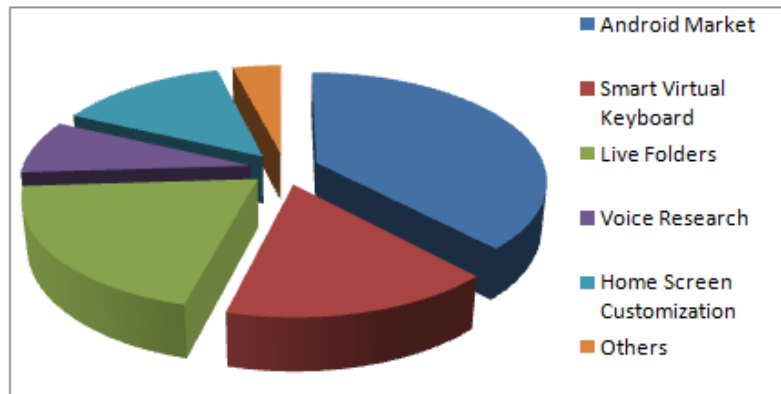
2.4 Secondary Data

Articles have been sourced from magazines and journals dealing with mobile banking application. Internet & Research Methodology have been a major secondary source for the extraction of the expert'sopinion

III. DATA ANALYSIS AND INTERPRETATION

3.1 Overall Rating Android Operating System on different

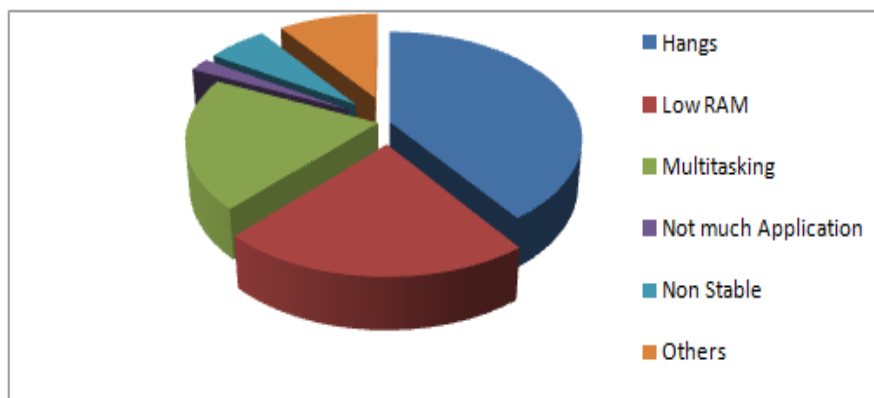|	Excellent	Good	Neutral	Lousy	Poor
User Interface	50	18	20	4	8
Multitasking	10	20	26	40	0
Applications	34	20	10	2	4
Games	14	46	30	8	2
Hurdles	10	2	24	4	2
Updation	30	44	10	12	4

3.2 Features of Android Operating System

Interpretation:

- 38% Respondents have rated Android Market as a Best feature of Android Operating System.

- 16% Respondents have rated Smart Virtual Keyboard as a Best feature of Android Operating System.

- 20% Respondents have rated Live Folders as a Best feature of Android Operating System.

- 8% Respondents have rated Voice Research as a Best feature of Android Operating System.

- 14% Respondents have rated Home Screen Customization as a Best feature of Android Operating System.

- 4% Respondents have others Features as a Best feature of Android Operating System.
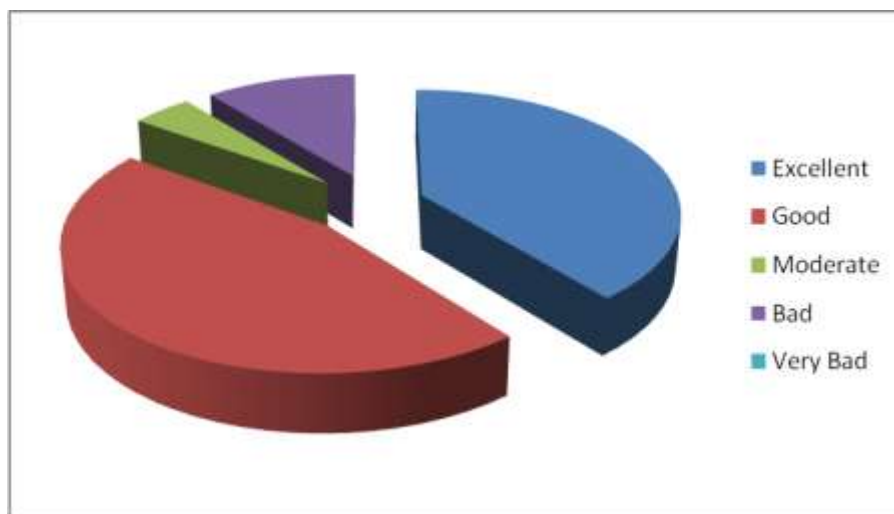
3.3 Limitation and Problems in Android Operating System

Interpretation:

- 40% Respondents feel Android Operating system is Hangs Maximum Times.

- 22% Respondents feel Android Operating system have Low RAM.

- 20% Respondents feel Android Operating system have Multitasking Proble.

- 2% Respondents feel Android Operating system don't have much application.

- 6% Respondents feel Android Operating system is Not Stable.

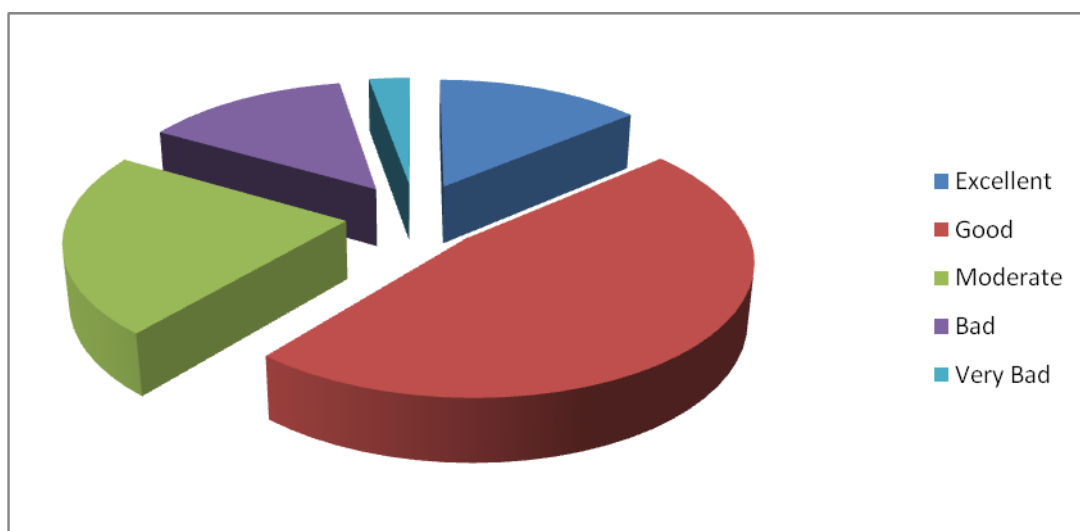- 10% Respondents feel Android Operating system has other Problems

3.4 User Friendliness of Android Operating System

Interpretation:

- 36% Respondents have a Excellenet experience, In terms of User Friendliness of Android OS

- 42% Respondents have a Good experience, In terms of User Friendliness of Android OS

- 4% Respondents have a Moderate experience, In terms of User Friendliness of Android OS

- 10% Respondents have a Bad experience, In terms of User Friendliness of Android OS

- 0% Respondents have a Very Bad experience, In terms of User Friendliness of Android OS

3.5 Stability of Android Operating System

Interpretation:

- 10% Respondents says Android Operating System Has Excellent Stability.

- 34% Respondents says Android Operating System Has Good Stability

- 16% Respondents says Android Operating System Has Moderate Stability

- 10% Respondents says Android Operating System Has Bad Stability

- 2% Respondents says Android Operating System Has Very Bad Stability

3.6 Customer Support Service of Android Operating System

Interpretation:

- 42% Respondents says Android Operating System Has Excellent Customer Support Service.

- 10% Respondents says Android Operating System Has Excellent Customer Support Service.

- 28% Respondents says Android Operating System Has Excellent Customer Support Service.

- 8% Respondents says Android Operating System Has Excellent Customer Support Service.

- 0% Respondents says Android Operating System Has Excellent Customer Support Service

IV. CONCLUSION

➢ With the completion of this paper, we can conclude that every operating system has been developed by keeping in mind the targeted customers.

➢ In such a short span of Time, The growth of android market has been fabulous. The ease of use coupled with convenience and entertainment factor have been the powerful features of this technology.

➢ Use of mobile phone has been on the rise in the past few years and Customers are always demanding some unique, creative, interesting and entertaining applications to meet their varied interestd and likes. That's the reason all the companies are shifting from basic boring phones to much more interesting

➢ Android based phones entertaining from basic phones to much more Android based phone which are loaded with functions and application to make lives easier and entertaining for other users.Nokia,HTC,Sony etc. is making constant efforts to bring out something exclusive in market to satisfy the large pool of mobile users. Many Companies are working just on developing Android Based Applications. Dynamic and interesting apps are available at cost effective prices.

➢ Companies are introducing interactive apps to stay in touch with their Customers. From launching and promoting a brand to popularizing an existing Brand, everything is being done the Android way because the market for Android apps is huge and flexible. If you want a chat application or you wish to have a virtual games or you want a lifestyle application, Android is the Common answer for all the needs

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