ANDROID TECHNOLOGY

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INTRODUCTION

WHAT IS ANDROID?

- A Software platform and operating system for mobile.
- Based on the Linux kernel.
- Android was found way back in 2003.
- It was developed in Palo Alto, California.
- Android was developed by the Andy Rubin, Rich Miner, Nick Sears and Chris White.
- Android was purchased by the GOOGLE in AUGUST,2005 for 50 million $.

OPEN HANDSET ALLIANCE(OHA)

What is OHA?

- It's consortium of several companies.
- This group of companies are allowed to use source code of Android and develop applications.
- Reason for Nokia not to develop Android Mobiles is Nokia is not part of OHA.

FEATURES OF ANDROID

- Android is not a single piece of hardware.
- Android supports wireless communication using:-
  - 3G Networks
  - 4G Networks
  - 802.11 Wi-Fi Networks
  - Bluetooth Connectivity
- Android is a multi-process system, in which each application (and parts of the system) runs in its own process.

FEATURES OF ANDROID

- Interface that is better then the previous touch screen mobiles.
- User gets millions of applications that user can not get in any other mobile operating system.
- Android supports advanced audio/video/still media formats such as MPEG-4, H.264, MP3, and AAC, AMR, JPEG, PNG, GIF.
- Developing an android application is not tough using SDK(standard development kit) and java emulator we can easily develop applications that we want.

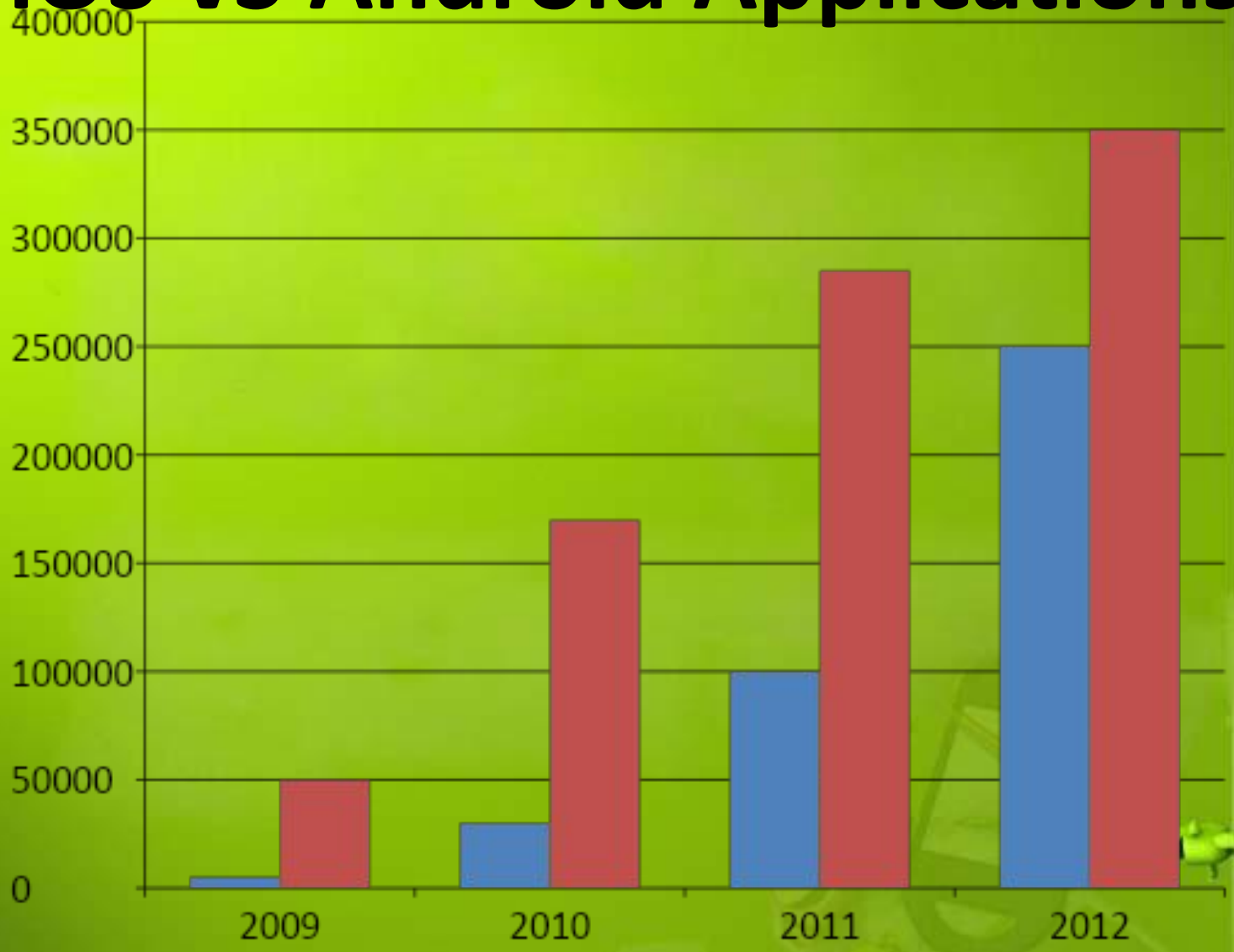
COMPARISON WITH OTHER OPERATING SYSTEMS

- Other then Android there are several other mobile operating system which is used.
- Symbian, iOS, windows this are one of the most used mobile operating systems.

SALES COMPARISON OF OS:-

FEATURE	ANDROID	iOS
Ease of use		
Voice to text		
Gaming		
Customizable		
Music Player		
Notification system		
Google voice		

iOS vS Android Applications:-



VERSIONS OF ANDROID

Android Beta

- ✔ First Version of Android.
- ✔ The focus of Android beta is testing incorporating usability.
- ✔ Android beta will generally have many more problems on speed and performance.

Android Astro 1.0

- ✔ First full version of android.
- ✔ Released on September 23, 2008.
- ✔ Wi-Fi and Bluetooth support.
- ✔ Quite slow in operating.
- ✔ copy and paste feature in the web browser is not present.

Android Cupcake 1.5

- ✔ Released on April 30, 2009.
- ✔ Added auto-rotation option.
- ✔ Copy and Paste feature added in the web browser.
- ✔ Increased speed and performance but not upto required level.

Android Donut 1.6

- ✔ Released on September 15, 2009.
- ✔ Voice search and Search box were added.
- ✔ Faster OS boot times and fast web browsing experience.
- ✔ Typing is quite slower.

Android Éclair 2.0/2.1

- ✔ Released on October 26, 2009.
- ✔ Bluetooth 2.1 support.
- ✔ Improved typing speed on virtual keyboard, with smarter dictionary.
- ✔ no Adobe flash media support.

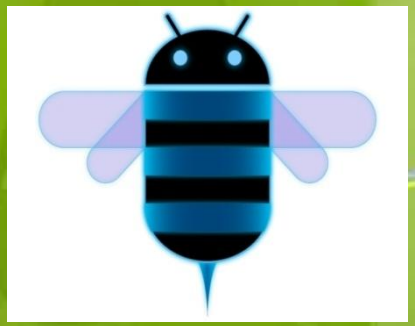
Android Froyo 2.2

- ✔ Released on May 20, 2010.
- ✔ Support for Adobe Flash 10.1
- ✔ Improved Application launcher with better browser
- ✔ No internet calling.

Android Gingerbread 2.3

- ✔ Released on December 6, 2010.
- ✔ Updated User Interface with high efficiency and speed
- ✔ Internet calling
- ✔ One touch word selection and copy/paste.
- ✔ New keyboard for faster word input.
- ✔ More successful version of Android than previous versions.
- ✔ not supports multi-core processors.

Android Honeycomb 3.0



- ✔ Released on February 22, 2011.
- ✔ Support for multi-core processors
- ✔ Ability to encrypt all user data.
- ✔ This version of android is only available for tablets.

Android IceCreamSandwich(ICS) 4.0

- ✔ Released on November 14, 2011.
- ✔ Virtual button in the UI.
- ✔ A new typeface family for the UI, Roboto.
- ✔ Ability to shut down apps that are using data in the background.

Android JellyBean 4.1

- ✔ Released on June 27, 2012.
- ✔ Latest version of Android.
- ✔ Smoother user interface.

LIMITATIONS:-

- Making source code available to everyone inevitably invites the attention of hackers.
- Android operating system uses more amount of battery as compared to normal mobile phones.
- As there are so many user sometimes it becomes difficult to connect all the users.
- As we call Android is world of applications we continuously need to connected with the internet which is not possible for all the users.

CONCLUSION AND FUTURE SCOPE:-

- Android is now stepping up in next level of mobile internet.
- There are chances of Android Mobile sales becomes more then iPhone in next two years.
- Google may launch another version of android that starts K because Google is launching all the android versions in the alphabetical order.
- There are chances of Android may become the widely used operating system in world.

ANY QUESTIONS:-
PLEASE GO TO
WWW.GOOGLE.COM