Organized Android Research

Topic A – Productivity & Application Software

* Google Apps for Business
  + Lots of Androids use Google Apps like, samsung, pixel, etc.
  + Includes a selection of office productivity tools including enhanced-for-business versions of Gmail, Google Talk, Google Calendar, Google Docs, Google Sites, and Google Video.
* Microsoft Office
  + Has a variety of configurations from home use to student use to use by various size businesses.
  + Usually includes at least Word, Excel, PowerPoint, Outlook, and OneNote.
* LibreOffice Productivity Suite
  + It is a free office productivity suite that comes from the not-for-profit organization; Because it’s free, support comes primarily from the community of users and developers.
  + Applications include Writer, Calc, Impress, Draw, Base, and Math.

Topic B – Entertainment & Media Software

* Youtube
  + Youtube is a website but also a google app that lets you watch or create videos
  + It allows you to share free videos with friends and allows you to watch online trending videos like music videos.
* Spotify
  + Spotify is a music streaming platform developed by a Swedish company
  + It allows you to listen to free music
* Netflix
  + Netflix is the world's leading internet entertainment service with 130 million memberships in over 190 countries
  + It lets you stream tv shows, movies, documentaries, etc to your tv or to your android devices

Topic C – Programming Tools & Environment

* Android Device Monitor
  + built-in Android development tool
  + allows you to monitor your device or virtual device during runtime and get access to information such as how many processes are running on what thread, network stats, the LogCat and more.
  + It’s great for testing the performance of your apps and seeing what’s going on under the.
* Android Studio
  + This is *the* official IDE (Integrated Development Environment) for Android
  + It is the number one choice for developers looking to make basic apps
  + has access to all the advanced features of the platform.
  + it acts as an editor for the chosen programming language
* AVD Manager
  + AVD stands for ‘Android Virtual Device’
  + this is an emulator for running Android applications on your PC.
  + This is useful to test your apps quickly without having to constantly install them on physical devices.
  + It allows you to create lots of different emulators with different screen sizes, specifications and versions of Android.

Topic D – System Tools

* Free System tools
  + Remotely gains visibility over the computers in your network and efficiently manage them.
  + Identify, monitor, and remove any type of software installed in your network.
  + Manage all remote tasks running on various machines in your network.

Topic E – Software Security & Updates

* Security has always been a major focus for Android.
* The system is designed to protect users with multiple layers of protection in the platform and built-in security services.
* There is source code for security fixes every month
* There is also a monthly update cycle for Nexus and Pixel devices and partners.

Topic F – File System & User Accounts

* exFAT
  + The extended File Allocation Table is a Microsoft proprietary file system for flash memory.
* F2FS
  + Samsung introduced The Flash-Friendly File System as an open source Linux file system in 2012.
* YAFFS2
  + Flash File System version 2 was the default AOSP flash file system for kernel version 2.6.32.
  + YAFFS2 is not supported in the newer kernel versions but individual mobile device vendors may still continue to support YAFFS2.

Topic G – Special Features of your OS

* Near Field Communication (NFC)
  + Most Android devices support NFC, which allows electronic devices to easily interact across short distances
  + it create a payment option that is simpler than carrying credit cards or cash
* Alternate Keyboards
  + Android supports multiple keyboards and makes them easy to install
  + Other mobile operating systems either don’t permit extra keyboards at all, or the process to install and use them are tedious and time-consuming.
* No-Touch Control. ...
  + Using Android apps such as Wave Control, users can control their phones touch-free, using only gestures.
  + This could prove especially useful if you’re driving, so you can keep both eyes on the road.

Topic H – Limitations of your OS

* Quality and Defects of Apps in Play Store
  + There are also many apps on the Play Store that are not reconcilable with different levels or ranges of Android phones.
  + The quality of the available apps on the Play Store is much worse compared to those on Android App Store.
* Device Issues: Drains Battery and Overheating
  + Other limitation is since Android has many ongoing processes running in the background the high usage of RAM get stressed resulting in the poor Battery performance.
  + With Android phones excess heating is a common issue, particularly when playing games with heavy graphics or when one is drowned in extreme multitasking.
* System Drawbacks & Unlimited Applications
  + You require a good supply of Internet for the apps to function efficiently
  + Android platform is open for all, thus the availability of its source code is open to everyone, which invites the attention of hackers.