**Objectives**

1. Research information about software for a specific operating system (OS) environment. You will be assigned one of the operating systems form the list below. You will also be provided with a list of topics to investigate.
2. Organize your rough research information into a list of topics, sub-topics and facts. This process will involve identifying sub-topics, rearranging your rough research notes, and selecting (or highlighting) interesting facts.
3. Report a summary of your research in the form of a “concept map”. Use the PowerPoint template provided as a starting point. The concept map should only include the best and most interesting information from your organized research notes.
4. Your concept map can be created using: Smart Ideas, Prezi, PowerPoint or other similar applications.

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**Step 1 – Organized Research**

Research information about your assigned operating system (OS) environment.

* Guide your research according to the suggested topic list below
* Feel free to copy-and-paste as long as you keep track of your bibliographic references.
* Do not be too picky or concerned about formatting as you will organize this information later in step 2
* Select things that look interesting and don’t forget to include graphics images as well
* Upload your rough research notes to your repository when you are done.

Topic A – Application Software

Provide a summary of most important user application software targeted by this operating system and how it is similar to and deferent from standard PC software. Suggested sub-topics include:

* User (client) or network (server) applications
* Batch (run without user input) or interactive (user focused) processing
* Off-the-shelf (purchased) or custom developed applications
* Programming environment and languages supported

The user control or computer system runs on this and this is what the server would help on. It is a piece of software that runs on the client’s computer and makes requests to a remote server. Many of the IT applications are written in high level visual programing languages where UI, forms, and most business logic reside in the client application. Batch processing is the execution in the series of programs or only one task on a computer environment without manual intervention. all data and commands are chosen from the scripts or command line or parameters and therefore run to completion without human involvement / contact. Some of these applications are different from others they include many other different things such as the work, getting everything done and handing in the things. Getting the applications filed out and purchasing things and making it work. The languages would include to have codes to represent things in the alphabet s the reader or the viewer can understand it and that would be helpful.

Topic B – Hardware

Provide a summary of the hardware targeted by this operating system and how it is similar to and deferent from standard PC hardware. Suggested sub-topics include:

* Speed of processors / memory
* Capacity of memory / attached disks
* Is it designed for home / office / corporate data center / industrial use
* Is it designed for client / server / network use?

Android supports devices with 512 MB of RAM. This documentation is intended to help OEMs optimize and configure Android kernel 4.4 for low-memory devices. Several of these optimizations are generic enough that they can be applied to previous releases as well. The storage for this would be that it uses SD cards that can highly process the things and is useful for the programing in the project. OTA updates are designed to upgrade the underlying operating system, the read-only apps installed on the system partition, and/or time zone rules; these updates do not affect applications installed by the user from Google Play. What the thing is used for is highly used and accessed. It is designed for clients and server users; it could also be used for network use.

Topic C – User Interface

Provide a summary of the user interface and input devices targeted by this operating system and how it is similar to and deferent from a standard PC. Suggested sub-topics include:

* Does it support a windowed environment, command line, or network users?
* Does it support multiple users at a time or single users
* Does it support multiple applications or a single application at a time
* Does it get rebooted (powered on / off) or is it always on

Yes, it does support a windows environment/ command line and it does have a network user that actually use it. It supports multiple users at once and that is a benefit. It supports both single and multiple. Like for example the file can be used multiple but app and/or account can be only used single. The thing can get rebooted maybe if they get used to much by multiple people on the site or the app that they are using. The thing Is turned on when off and it can be turned on it does not stay on all day and night, it should be turned off.

Topic D – Device Management

Provide a summary of the devices (disks, printers, etc.) and memory managed by this operating system and how it is similar to and different from a standard PC. The suggested sub-topics include:

* What types of disk drives and file systems does it support?
* What type of input devices does it support?
* What type of output devices does it support?

the AOSP supports many different disk drives and they can be used for it.it supports different files systems like the windows and other things. It supports rational and locations. It supports different output devices such as computers, laptops and other things like headphones and printers and many more.

Topic E – Security

Provide a summary of the security features provided by this operating system and how it is similar to and deferent from a standard PC. Suggested sub-topics include:

* What types of user accounts and user permissions does it support?
* How does it protect against conflicts / interference between legitimate application processes?
* How does it protect against malicious software?
* How does it support software updates and security updates?

It supports these following systems: System accounts, Super user account, Regular user account, Guest user account, User account vs Group account, Local user account vs Network User account. it protects some of these things listed above. It protects malicious software by things like the protection case and other ways from the people. It supports software and security updates because that program includes different things such as the security updates to it and the file passwords and other security that is added to it.

Topic F – Network Connectivity

Provide a summary of the network connectivity provided by this operating system and how it is similar to and deferent from a standard PC. Suggested sub-topics include:

* Is the computer stand-alone or part of a larger network?
* What type of network and internet connections does it provide?
* Does it provide other services such as backup, firewall, etc.?

The computer is a part of larger network that is connected to many things, and different things. It provides/ includes Android Wi-Fi Framework which helps them in getting their network. Some of the time it does not always it does not provide other services with different networks.

**Step 2 – Concept Map**

Create a “concept map” as a final report of your organized research.

* Use the diagram in the introduction as a starting point.
* You should have six (6) first level topics from “Application Software”   
  to “Network Connectivity”
* Each first level topic should have at least three (3) sub-topics
* Each sub-topic should be supported by a number of facts / items of interest

Select the best and most interesting information from your organized research.

* Summarize and edit your information to fit on the concept map.

Upload your Research Notes and Concept Map to your GitHub Repository

* Your concept map can be created using: Smart Ideas, Prezi, PowerPoint or other   
  similar applications.
* Option1: Create and upload a PDF of your concept map
* Option2: Include a link to your Concept Map in your Student Questions
  + Make sure that your link is Sharable so Mr. Nestor can open your map

<https://www.mindomo.com/mindmap/b1ef12b735fb4dc18220af9ba50de84b>

**Appendix A**

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| **Operating System** | **Student 1** | **Student 2** |
| Ubuntu  (Linux) |  |  |
| z/OS  (IBM) |  |  |
| Solaris  (Oracle) |  |  |
| HP-UX  (Hewlett Packard) |  |  |
| Windows NT  (Windows Server) |  |  |
| Red Hat Enterprise (IBM Summit) |  |  |
| QNX  (Blackberry) |  |  |
| VxWorks  (Wind River) |  |  |
| AOSP  (Android Alphabet) |  |  |
| Ubuntu  (Linux) |  |  |
| z/OS  (IBM) |  |  |
| Solaris  (Oracle) |  |  |
| HP-UX  (Hewlett Packard) |  |  |
| Windows NT  (Windows Server) |  |  |
| Red Hat Enterprise (IBM Summit) |  |  |
| QNX  (Blackberry) |  |  |
| VxWorks  (Wind River) |  |  |
| AOSP  (Android Alphabet) |  |  |
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Rough notes

What it is

* (AOSP) stands for - Android Open Source Project
* (AOSP) is an initiative created to guide development of the Android mobile platform
* The (AOSP) is overseen by the Open Handset Alliance (OHA), a Google-led coalition of over 30 wireless carriers, semiconductor companies, handset manufacturers and software companies.
* Android is an open source operating system for mobile devices and a corresponding open source project led by Google.
* What is the purpose of that AOSP- idk?
* Help me