**Systems and Tools**

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**5 Features of the Operating system:**

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| --- | --- |
| Feature | How it’s Accessed |
| Folders | Anywhere within the file explorer or the desktop. |
| Speakers | Under “start” find “settings”, then search and click on “sound settings” |
| WIFI | Under “settings” search “Wifi Settings” |
| Drivers | The options to manage drivers is spread among different portions of the settings. To access these features you should search “drivers” in the settings. |
| Security Management | The security management feature is usually accessed through an application or program. This can be accessed under the list of applications in the start menu. |

**Folders:**

A screenshot of a computer

Description automatically generated

I believe that when the user accesses a folder, a message is sent through the operating system where it finds the folder. The folder/data is stores in a sort of tree of data where they are isolated from each other but organized in a manner that represents relationships. The system then verifies the user’s authorization to access the folder, then displays the contents within the folder, or the next branch in the tree of files/data.

**Speakers:**

A screenshot of a device

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When using the speakers, I believe that the programs sends the audio file to the operating system. The operating system then sends it to the hardware for audio output. From there the system determines the chosen audio device. If the audio device is successfully connected and there are no errors, then the hardware reads the file and audio is played out of the speakers.

**Wifi Capabilities:**

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I believe that the system listens for a host for wifi connections. When one is found it determines whether a password is required or not. Once the system is authorized and the connection is being made, the system sends the host data such as the IP address. The system and host then begin sharing data back and forth.

**Drivers:**

A screenshot of a computer program

Description automatically generated

I know that drivers are important for software updates and managing hardware. I believe that the driver is used for communication between the operating system and hardware to efficiently manage the hardware. It sends messages back and forth and sends commands to the hardware.

**Security management:**

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I believe that security management consists of a large program in the system which continuously scans both new and existing data. Data flows through the program and is scanned for malicious or suspicious activities. The system then determines whether to deny the program that bad data is attached to or ask the user how to handle the threat.

**Linux Availability (Ubunutu)**

**A screenshot of a computer

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**Hello World**

**A screenshot of a computer program

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