my team and I decided to start a organisation to try help improve the schools hardware and software systems. The reason for us to create this organisation is because where seen recent problems as the schools Wi-Fi was not working, Most of the LAN cables are damaged and not operating , and their internet speed is slow.

## In my organisation. It consists of these students.

|  |  |  |
| --- | --- | --- |
| Name | Surname | ID |
| Victor | Mtolo | 0007295127083 |
| Senzo | Masango | 0004145519080 |
| Bakang | Motaung | 0002195044082 |
| katlego | Nemo | 0006205046086 |

## Timetable:

This is there timetable that we created in order to schedule dates and time of which we were supposed to work on a particular phase

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Time | Teamates | Week 1(investigate) | Week2(Planning and Research) | Week3(Decision making) | Week4(Drafting) |
| Monday - Wednesday | * Bakang Motaung * Victor Mtolo | Dealt with investigating which device has outdated software and which hardware device is too old | Dealt with planning ideas for the outdated Software and Hardware devices | They decided upon which idea would best suit the situations surrounding the school(organisation) | They drafted the report on their findings |
| Wednesdy to Friday | * Senzo Masango * **Katlego** | Deals with investigating which LAN cable is damaged or not working | Deals with planning ideas for the problems of the LAN cables | They decide upon which idea would best sui the situation surround the school (organisation) | They drafted a report of their findings |

## Week 1

Week 1 was the investigation phase. Since the members of our team said that the school had problems regarding Outdated software/hardware, and trouble with LAN cables, we formed two groups where Bakang and I (Victor) would handle the problem regarding the outdated Software and hardware devices from Monday till Wednesday, while Senzo and Katlego will handle the problems regarding poor internet access from Wednesday till Friday

## Investigation on the outdated Software and hardware devices

### Outdated operating system

In the investigation that Bakang and I were doing, we found out that the schools lab had computers which were operating with Windows XP, this was a big problem for the school as this OP was rendered obsolete as it cannot download latest apps or use latest features like Wi-fi because windows XP can’t enable those features.

### Old peripheral devices

We also identified that the peripheral devices such as the mouse and keyboard were also old as they couldn’t enable wireless connection to the computer and that could cause clutter in the class.

### Old printer

The other problem we identified was that the schools printer was also the old version as it didn’t have wireless connection, if it had wireless connection capability, it could’ve also been connected to the schools network, that way, all students or staff members can easily connect to the printer and print out hard copies using their device, instead of going to the computer that’s weirdly connected to the printer.

## Investigation on poor internet access

### Ineffective Wi-fi

The schools wi-fi is slow and sometimes to allowing learners to access internet. The cause of the wi-fi not operarting well was due to the slow DNS server, it didn’t have a wide enough rang to cover the whole school.

### Poor network

The school’s network or switch does not support gigabit and only supports 10/100 Base-T

### Damaged LAN cables

Most of the schools LAN cables are damaged and not working, this results in other students not getting access to the network and internet

## Week 2

In week 2 , the team was busy trying to come up with ideas on how to fix the problem that they were tasked to do. The team made researches to try and find a solution to the problem at hand .

## Research on how to improve outdated software and hardware devices

In the research that Bakang and Victor made, Bakang was tasked to research solutions regarding the outdated operating system of the lab, while Victor was tasked to research solutions regarding the outdated printer and the peripheral devices

**Different types of OP**

Windows 10

It's fast, It's reliable, It takes full responsibility of every move you do. It is the Windows of the future, It is worth every penny you've spent to buy this because of its features, Design, Speed, Accuracy, Privacy, and Security. If you even hesitated to buy Windows 7, Just buy this OS, Who knows, Maybe in the future some programs you need are only compatible with windows 10.

Arch Linux

Arch Linux is composed predominantly of free and open-source software,[5] and supports community involvement. The design approach of the development team follows the KISS principle ("keep it simple, stupid") as the general guideline, and focuses on elegance, code correctness, minimalism and simplicity, and expects the user to be willing to make some effort to understand the system's operation

MacOS Mojave

Mac OS Mojave is Apples beautifully crafted OS handed to us by their prestigious architects providing a clean design with dark mode to enhance your work experience and a range of new and refreshed applications to well? Overall improve productivity, with apples chips the fear of computers crashing lives no more as these chips can handle serious work and live up to their name.

**Different kinds of peripheral devices**

Mouse-There are range of different types of mouse’s to consider, using wireless mouse’s can easily work to an advantage as they will improve productivity as well as work experience giving students more freedom and finally reducing the clutter of wires’ wireless mouse 200 is widely known for its durability and affordability,

**Different kinds of printers**

Laser printer

Solid ink printer

Inkjet printer

All-in-one inkjet

## Research on how to improve poor internet and network

**Deferent types of Wi-fi router**

TP-LINK Archer C7 AC1750-Affordable pricing with amazing speed

D-LINK AC1200(DIR-842)-Dual band with manageable settings and incredible speed

D-LINK AC3200 Ultra WIFI Router(DIR-890L/R)-Expensive yet worth it,off the charts speeds as it’s a tri band router and offers good range so work can easily be accessed in different envirnoments

**Deferent types of LAN cables**

Vandesail LAN Network Cable- these are provide up to 10GB/s speeds so internet speed will be used to the max and sizes range from three feet up 164 feet if required, what makes them more perfect is that they’re flat so housing wont be a problem and easily confided yet the best part is they come in a 2-pack which is great value for money.

Ethernet Cable 100-these are ideal for running connectivity between rooms as CTU has a number of rooms, with decent internet speed and durability the school can save a lot of money while providing the experience for students

Mediabridge Ethernet Patch Cable-not essentially the best when regarding speed but these could work in some rooms as they allow old connections, for instance out dated servers and have pretty decent length

## Week 3 (Decision Making)

Operating System- Windows 10

Printer- HP 2130 all-in-one

Peripheral- Logitech MX Ergo wirless mouse

Logitech craft keyboard