**Rough guide to your design plan (Task 1)**

**Submit plan for feedback: 3/5/18**

Look back at your previous assignment. Anything you can reuse/help with the design plan? Justify your decisions and selections throughout.

**Things to include:**

* Include minimum specs of software needed and extra costs involved
* Hardware specs and recommendations for upgrades including costs.
* Network Layout diagram – See next page for example – Ms Visio could be used
* What services need to be configured - DNS, DHCP, Active Directory, Printer services etc. Why?
* Backup Software? (e.g Windows Server Backup, Acronis. Which and why.)
* Disaster recovery setup - Devise a regular backup plan – where will this data be stored? How?
* Anti Virus?
* Explain those services and there uses with the network
* User name and passwords for users
* Access Rights?
* Explain the router setup(Firewall, encrypted WI-FI)
* Explain your intruder detection system e.g firewall
* Physical security(Server room access)
* Testing (Explain what and why you are using them):
	+ User functionality test (Do all the features you have set up work)
	+ Network security and penetration testing: e.g Kali Linux with OpenVas. Checking security configurations.
	+ Network speed: e.g Lan Speed Test
	+ Internet speed: e.g speedtest.net
* You will need to put a test plan together for the above.

**Current network setup:**

|  |  |
| --- | --- |
| **Old server with no NOS installed:**Processor: Core 2 DuoHardrive: 500GB HDDRAM: 4GB | **8 Dell PC’s all running Windows 7:**Processor: Core 2 DuoHardrive: 500GB HDDRAM: 2GB |

**Note:** If upgrading or suggesting new hardware remember it is a small business(consider value and need) and you must justify your selection.

**Network Diagram Example**