



UTM
UNIVERSITI TEKNOLOGI MALAYSIA

SECR1213-08 KOMUNIKASI RANGKAIAN (NETWORK COMMUNICATIONS)

INDIVIDUAL REPORT - TASK 6B

GROUP 9 – THE SKELD

NAME	RAKESH A/L KANNAPATHY
TEAM MEMBERS	AMIRUL SYAFIQ BIN MOHD QISTI KHAINOR AZAM BIN KAMARUDDIN
MATRIC NO	A19EC0153
DUE DATE	20 JANUARY 2021

Task	Member Contribution	Description
1	Khainor	Contribute idea and compiling report
	Amirul	Generate floor plan 2 (Ground Floor)
	Rakesh	Generate floor plan 1 (First Floor)
2	Khainor	In charge of question 1-4
	Amirul	In charge of question 4-8
	Rakesh	In charge of question 8-11 and compile report
3	Khainor	In charge of researching PC, switch, monitor
	Amirul	In charge of researching server, router, storage for server
	Rakesh	In charge of researching firewall, modem, patch panel, cable
4	Khainor	In charge of calculating length of cable
	Amirul	Generating vertical and horizontal cabling
	Rakesh	In charge of choosing type of cable
5	Khainor	Explanation
	Amirul	Generate IP subnet and host diagram
	Rakesh	Calculating subnet and host

First, our group, The Skeld work as a team by conducting meetings through the platform of discord. We also collaboratively do floor plan together use lucid chart and floor plan creator to generate our cabling plan and floor plan. The challenges are quite tough as we cannot do work together physically, however, we did not make that as excuse to not complete the task given by lecturer. Other than that, we also did our discussion through WhatsApp. We interact more often and have a healthy discussion among us as everybody can accept and give their own opinion. Hence, working as team is no longer a problem for us because we already built our bond together as a team.

During this pandemic, we have learnt to communicate virtually by using video conferencing web such as google meet and discord. It really improves my skills of communication

soft skills as we interact quite often with each other. Other than that, I also learnt how to take other people's opinion and discuss it within the group to make sure that the decision that we make is the best decision. Next, working in group really helps me to adapt to working situation as most of the time, working environment especially in software engineering are working as a team. Lastly, working as a group have also improve my brainstorming within a team skill. As a team, we need to come up with a good solution or approach to satisfy our client. Hence, having a healthy meeting session within the group members helps me to sharpen the skills of communicating and brainstorming skills.

From this project, I have learnt that communication skills are important especially within a team or group. This is because software engineer really require communication within a team as this career is a job that interact within a team. Other than that, I have also learnt how to create a floor plan of a network plan based on task 1. This is a new knowledge for me as this skill might be useful during my working time. A good network plan needs to have a proper arrangement of digital devices in a particular room so that it can reduce the cost and save some space in the room based on the demand of client. Secondly, I have also learnt about feasibility studies of the project. It helps me to determine whether the project is worth to pursue in term of operational and economically. Next, I have sharpened my researching skills as Task 3 needs to do a lot of research about digital devices. After finishing this task, I improved my knowledge significantly as I learnt more about digital devices that are required in a network plan. Most of the people still confused about the functionality of modem and router. However, after finishing task 3, I can now differentiate the functionality of mode and router better. Other than that, I have also learnt new things such as knowing the types of cable that is usually used in a network plan. There are two types of cable that frequently used, that is fiber optic cable and copper cable which also known as RJ45 ethernet cable. Both cables have their own advantages when being used. Lastly, task 5 has taught me to know better about IP address allocation of a network plan. After finishing this task, I have now learnt better about assigning IP address to each of the node or devices and assign them into a subnet. This is important as we want to reduce the redundancy of subnet and host allocation in a particular network.

Overall, there are a few improvements that can be made in our project. One of them is to improve the quality of floor plan to be neater. This also includes network cabling structure of each floor that we did in task 4. The quality of vertical cabling can be improved by using a better software to draw and illustrate the cable from ground floor to 1st floor.