



UTM
UNIVERSITI TEKNOLOGI MALAYSIA

SECR1213 – NETWORK COMMUNICATIONS

TASK 6B – INDIVIDUAL REPORT

Faculty of Computing
UNIVERSITI TEKNOLOGI MALAYSIA
SEMESTER 1 2022/2023

STUDENT NAME: Ahmed Shukur Bin Jalaludin

SECTION: 04

MATRIC NUMBER: A21EC0007

LECTURER: Ms. Rashidah Kadir

DUE DATE: Week 15

1. INTRODUCTION

My name is Ahmed Shukur Bin Jalaludin, a member of the group, The Millionaires, from SECR1213 Section 04. I am one of the four members of the group, while the remaining three are Haris Izudin Bin Hairul Azhar, Muhammad Qayyim Bin Khamarudin, and Rasidin Bin Hatta.

2. CONTRIBUTION TO THE GROUP AND PROJECT WORK

Some of my contributions to the group are I have done as best as I can to complete my part of the job while making sure everyone understands and proceeds with the divided tasks. Furthermore, I would love to present my ideas to my group which some of them that were great were filtered and accepted by my group. For the first task, I drew the floor plan myself while being guided and given ideas by my group members while constructing the floor plan. Next, in task 2, I presented some questions regarding IOT lab which were used for the interview. Furthermore, I pointed out the scalability consideration in our project. Then, in task 3, Wireless Access Point device was chosen and explained by myself. In task 4, I drew the network device arrangement and the cables, while also assisted in calculating the cable length. Lastly, in task 5, I performed the subnetting of our network arrangement.

3. OTHER MEMBERS CONTRIBUTION TO THE GROUP AND PROJECT WORK

All my team members contributed equally to the project with each of them having their expertise and tasks. Haris Izudin is a very good team member who always leads and reminds us to complete our tasks. Furthermore, he always completes his task earlier than us. Some of his contributions were floor plan arrangement planning, IOT lab interview questions, project feasibility analysis, choosing the best cables for our project, identifying work areas, and also subnet chart creation. Next, Rasidin can be considered one of the most knowledgeable among us regarding this course since he always do exercises and revises, while having many previous knowledges from the internet. Some of what he had done for the project were of course, floor plan network device arrangements, creating interview questions, conduction feasibility analysis, choosing the best router and switch, estimating the budget needed for the project, cable length calculation, and subnet chart creation using Cisco Packet Tracer. The last member of The Millionaires is Muhammad Qayyim, who acts as the glue of the team by always calling us for meeting to divide tasks and discussion. Some of what he did for our team are floor plan design ideas, interview questions, choosing best modem

and GPON technology explanation, budget estimation, cable length calculation and also subnetting. Lastly, all of us completed the report together.

4. HOW I WORK AS A GROUP

I always contribute ideas to my group. Furthermore, even though I may not be the brightest, I would always compensate for that by doing extra jobs such as report compilation and assisting others to complete their tasks.

5. WHAT I HAVE LEARNED FROM WORKING AS A GROUP

Some of the important lessons that I have learnt by working as a group are, everyone has their expertise and a lot of them are way better than me in many situations, thus working together really helps to create a better result, which in our case, is our project. Furthermore, working in group gives us the chance to be covered by team members if we have any emergencies, but must compensate for that work done by our team members.

6. WHAT I HAVE LEARNED FROM DOING THE PROJECT

I have learned the full process of network planning that a network analyst must do in order to implement the network architecture that we are using in our everyday lives. Each steps taken are meticulously done due to all of them being interrelated. Hence, the best connectivity can be delivered if the network analyst had taken care of each miniscule of processes involved in network planning.

7. COMMENTS AND SUGGESTIONS

Some of my comments are this project actually teaches us regarding real world problem solving and knowledge implementation, which really prepares us for our jobs and careers in the future, while nurtures us to have plethora of talents and skills needed such as communication and leadership skills. My suggestion would be to guide the students to create a better project report, while always screening each of the tasks that we have done, before us moving to the next tasks, so that we can always improve ourselves as the time goes by. This would really help us a lot compared to each of the phases not being screened at all.

8. INDIVIDUAL VIDEO LINK

<https://youtu.be/sLdtABEN7z8>