



UTM
UNIVERSITI TEKNOLOGI MALAYSIA

FACULTY OF ENGINEERING SCHOOL OF COMPUTING

SEMESTER 2 SESSION 2021/2022

SECR2242 – COMPUTER NETWORK

SECTION 01

TASK 7B: INDIVIDUAL REPORT

LECTURER: Ts. MS HAZINAH BINTI KUTTY MAMMI

GROUP NAME: HELLO WORLD

NAME	Matric No.
AZLINAH BINTI HERMAN	A20EC0018

MEMBERS NAME	MATRIC NO.
NURMAZLI AZLIN BINTI MOHD RAZALI	A20EC0125
SHARTESWARY A/P BOJARAJOO	A20EC0225
SITI HAJAR BINTI MUCHTAR	A20EC0149

- **Detail your contribution to the group and the project work**

I always ask my groupmate when they are free to do a project meeting to discuss the task. In a group meeting, I am the leader. We discuss the requirement for every task and the rubric. Then, I will be distributing the part in the task for everyone. For project work, my part in task 1 is to edit a little bit of the layout of the ground floor since my group just take the floor plan from the previous semester. For task 2, I was designing half of the topology on the ground floor and combined the topology for both floors since the packet tracer cannot be edited together. For task 3, I identified the number of subnets in the topology based on the number of interfaces connected in the routers and do subnetting for two rooms. For task 4, I was responsible to configure static routing on the routers and IP addresses for two labs. For task 5, I also do the configuration of Inter-VLAN and test the end-to-end connectivity for two rooms. For task 6, I configured the DHCP on the router, and for the last task, I wrote the project background and reflection on task 2 and task 4.

- **Detail the other members' contributions to the group and the project work**

They are always on time during the project meeting and never give excuses for not attending the group discussions. They never hesitate to speak up their mind when giving an opinion or idea and always give feedback to each member. They give full commitment to each task that they are assigned. For project work, Hajar and Azlin are edited on the first floor and Shartes on the ground floor. For task 2, Hajar and Azlin are designing the topology for the first floor and half of the topology on the ground floor is by Shartes. For task 3, all of the members are discussing the number of subnets in the topology and divided the subnets into equal parts for us to do the subnetting by listing out the network, broadcast, and range of useable addresses. For task 4, Azlin is responsible to configure static routing while Hajar and Shartes configure dynamic routing. For task 5, Shartes updated the floor plan and the topology to add the staff rooms while Hajar do the subnetting and assigned IP addresses to the devices, and Azlin created and assigned ports to specific VLAN. All of us do the end-to-end connectivity. For task 6, Shartes do the DHCP configuration while Azlin and Hajar snap the success of DHCP to put into the report. For last task, each member did the reflection on their respective tasks.

- **Explain how you work as a group**

I am highly responsible as a groupmate. I always ask myself if what I did on my part for every task is enough for my group to get the highest mark because I do not want to be the reason for them receiving bad grades on this subject. I am good at teamwork. I always ask my groupmate if they have a problem related to the task that they need to do. We will figure out the problem together to find the solution. I also will make sure every member will do an equal task in each phase of this project. I was also active in giving ideas for every task in the project and listening to their own opinion to avoid misunderstandings happening. Before meeting to discuss the tasks, I will make sure to read the requirement and do a little research to save time during the meeting.

- **Explain what you have learned from working as a group.**

I learn how to work as a team. I always listen to my groupmates' side and consider their idea. If I rejected their idea, I will tell them the valid reasons. I also discovered that not everyone is a fast learner like myself. This teaches me to be considerate and patient. I need to explain a few times to make sure they understand. Even they said they understood what I am talking about because some people feel ashamed if they are the only one who is not in the same situation as others. Moreover, I have a trust issue when doing a group project because I experienced a free rider in my group last two-semester. I need to overcome this fear by trusting my groupmate that they are different from that person and trusting in-group members is also one of the fundamentals to have a high quality of work.

- **Explain what you have learned from doing the project.**

I learn how to solve a problem of real industrial level steps by steps from designing the topology, doing the subnetting, assigning the IP address, configuring the static and dynamic routing, implementing VLAN and DHCP by completing this case study of installing a network to a new building. I was able to implement the theory that I learn in Computer Network class into this project such as doing the subnetting for IP addressing purposes. I also become an expert on using cisco Packet tracer because throughout this project we need to utilize that software to accomplish the task. Moreover, I learn how to be calm to face hardship in life because I am not going to lie the process for each task is to test our understanding of the concept that we learn in class. Lastly, this project sparked my interest to work in this field for my future career whereas before this I did not have any plan for what field should I work in after graduating from the school of computing.

- **Your comments and suggestions on the project.**

This project is a good assignment for the student to be exposed to the world and indirectly enhanced their skills in problem-solving and critical thinking. Furthermore, this project is great to foster a spirit of teamwork among the students and increasing their communication skills. For suggestions on this project, it would be better for each group to have a different case study because each group can read another group report to increase their knowledge. In addition, it would be best if the lecturer gives a brief explanation of the project before distributing it to the students. It would be a great help to the student if they can do this project hands-on in the lab physically where they can connect real devices to each other and do the configuration. Lastly, it also can improve the ways to solve this project if the student can attend a seminar or clinic with an expert.