



UTM
UNIVERSITI TEKNOLOGI MALAYSIA

NETWORK COMMUNICATION

SECR1213

SECTION 06

LECTURER: DR. RAJA ZAHILAH

PROJECT : Network Design for Faculty of Computing Block

N28B

TASK 6B

GROUP NAME : Pulse Ltd - 3

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TASK 6C : <https://youtu.be/EdFscBMCfbk>

My contribution to the group and the project work:

I have given my full efforts for the completion of this project and I have learnt a lot throughout these few months of doing this project.

1. Task 1 - I came up with the rough sketch for the N28B building. It was such an ahead-thinking task for me because I had to design the building with the final output in mind. I did like 2-3 rough sketches before finalising the one that was attached to the report. I discussed with my teammates and we strategically decided to place each of the rooms at where they are situated. For example, the video conferencing room is located at level 2 as the student lounge is in level 1, and usually level 1 is crowded most of the time so to prevent any noise disturbance it was located in level 2.
2. Task 2 - I came up with many questions, some of which were filtered out because they went out of our scope but I did the research to find the ISP and also some security related questions and utilization questions and worked on finding solutions to these questions.
3. Task 3 - I did a lot of research on the latest technologies that can be found in networking and I found some really cool technologies like AI based networking devices and focused mainly on switches, access points and video conferencing room devices. While Digging into the video conferencing room devices I came across some really fascinating devices like HUAWEI IdeaHub and Owl Labs' Video conferencing bar and I found the features to be futuristic.
4. Task 4 - I did the connections in the Cisco lab and embedded labs but I struggled a lot on this task so I did a lot of learning on how to do it and tried really hard to understand and implement.
5. Task 5 - I contributed to the task a by dividing the subnets and overlooking this task as my teammates did their parts since we need to be very careful with the IP addressing as it is very easy to make minor mistakes.

Contributions of other team members:

Rami Yassein Eltayeb:

1. Draw the floorplan for level 1 using floorplanner.
2. Helped in filtering out questions and answered the questions as divided.
3. Researched important devices like cisco kit, devices in embedded labs, pcs etc.
4. Did the overall topology and explained the task to us.
5. Assigned IP addresses for assigned areas.

Mathaba Hassan Mohamed Hassan:

1. Draw the floorplan for level 2 using floorplanner.
2. Did detailed research for answering the questions in preliminary analysis.
3. Researched important devices like routers, cables, and patch panels.
4. Assigned devices in level 1 and did the cabling.
5. Assigned IP addresses for assigned areas and helped in overseeing and cross checking the works.

How I worked as a group:

Working together with such bright minds was a delight for me. We always prioritised proper communication among us and discussed with each other before making any major decisions. We took turns in taking leadership, be it explaining a task or making meeting minutes, we made sure that everyone could learn all the skills equally. Before starting every task we would do a Google meet and divided the task in a fair manner and after dividing the tasks we would work on doing research on that assigned area. We also gave each other constructive feedback and everyone in the group were open to any kind of feedback and ready to change it at all times.

What I have learned from working as a group:***Communication:***

First and foremost, it is the most important thing when it comes to team working. This has made me learn a lot from my teammates while doing so and I felt assured because we updated each other on our progress and we knew that we can finish our work before the deadline.

Learn from each other:

While working with my teammates, I learned a lot from them. We went above with not just working on the project but we also helped each other study and shared answers to past year papers. Whenever I was struck at a task I never hesitated to ask my teammates help and it always helped me clear my doubts.

What I have learned from doing the project:***Complexity of networking:***

As I did task by task on this project, I was amused at how complex yet how beautifully networking works. I wondered how people even came up with such a complex thing but executed it perfectly. It made me curious and I learned more about it apart from learning in class.

Technical knowledge:

I learned about different networking devices while researching and I really had fun while doing it. Whenever I go to a mpk for a class I start to observe how the pc's are connected, the patch panels and things that are in the mpk and now I am glad that I can tell switches and patch panels apart.

Comments and suggestions on the project:

This project was very helpful in implementing what I learnt in the class and building the team working spirit among us. I wish I had more time so that we could have actually tried task 5 by creating the topology and assigned IP addresses in cisco packet tracer and actually make a stimulation prototype.