SECR1213 NETWORK COMMUNICATIONS

SESSION 2021/2022/1

PROJECT TASK 6B, 6C
Individual Report

GROUP NAME: Ntelligent Networkers (NN)

Prepared By
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SECTION: 08

LECTURER'S NAME:

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Network communication is a course that introduced learners to a set of protocols, which allow application programs to communicate with each other, regardless of the hardware or operating system they are running. Network communication allows application programs to communicate independently of physical network connections. Through this course, I acquired not only the skills gained from the project, but also a variety of knowledge about what was mentioned.

For this course we had a semester long project. The project is a group work which includes 6 tasks. We were four members in the group. In this online learning session we completed the teamwork by conducting Google meetings and did the discussions and brainstorming. So this project work started by task 1 which was mainly to create a floor plan for a two story building. It was completely a new topic for me. However, for this task I did the image interface part, we used Wondershare EdrawMax software for the floorplan. In task 2, we needed to prepare at least 10 questions that were appropriate for our project and find the answers for those. I wrote two questions and the answers with the feasibility study according to the project. In the following task, task 3, I wrote the introduction and stated the budget that we were supposed to work within and identified which specific brand is appropriate for each type of devices and cables within our budget of 1.3 million. Thus we needed to write down the list of the devices that we would fulfil the requirements of the project. Proceeding with the task 4, discussed and determined how many connections, patch cords and switch ports we need. I measured the cable lengths for the two floors and with cable type and description. For task 5, I created the diagram of computer security lab and network lab on Cisco Packet Tracer and assigned IP addresses to the labs. Finally for the last task 6A, I chose to write the reflections on Task 2, 3 and 5.

The members of **Ntelligent Networkers (NN)** were so co-operative and helpful. We had RAHIM REHNUMA TAHSIN as our group leader. For task one, Rehnuma did the hand sketch of the floorplan and create the floorplan by discussing with us. AHMED SHERIF AHMED ABDELNABY took part in image interface part. HIBBAN KAMIL HIZBUTTAHRIR joined us actually during task2 due to some circumstances. In the task two, everyone took 3 questions and completed it nicely. For the task 3, Rehnuma identified the appropriate devices and the quantities. Hibban choose the appropriate type of cables and Ahmed determined the length of the cables. In task 4 Rehnuma discussed and planned the full network system of the building and implemented it using the software. Ahemd highlighted the work areas. Hibban identified some

options of cable tyoe and lengths. Task 5 was mostly done by Rehnuma. Hibban chose to work on mini convenient and IoT lab part and Ahmed worked on video conferencing rooms. Task 6 was compiled and modified by Rehnuma and she distributed the tasks left as well. Hibban wrote the conclusion part and Ahmed wrote the abstract and background of the report.

As Rehnuma was our group leader, after the task dividing, we send our tasks in the whatsapp group and asked each other about their opinion. Then sometimes we corrected it and finally Rehnuma used to submit it representing our group. All of the group members were so punctual and understanding. Our time management was so perfect that we were able to complete all of the tasks perfectly before the due date.

Projects are made simpler with good cooperation. Discuss and allocate duties effectively to equally spread the workload so that everyone can contribute to the project without feeling stressed at any moment. Furthermore, excellent communication between team members is necessary to meet the project's criteria and goals. During talks, we accept opposing viewpoints and strive to reach an agreement.

The project was as interesting as it was my first time to work on a real problem solving task. Some of the tasks were so challenging. Like in task 1, got to know for the first time about the software and how to make a floorplan. Proceeding with the tasks I discovered that what is needed to make connection with different devices. Learned a lot about IP address and network system. This project has inspired me to think more practically and specially within a budget. During task 4 I felt that the cabling is really hard and needs to do very carefully.

This assignment, in my opinion, is an excellent chance for us to go beyond the coursework and apply what we've learned in class. Although doing research and efficient communication among peers takes time, it's quite well sufficiently invested since we have the opportunity to strengthen our external and internal abilities. A little recommendation: I personally believe that comments on our submitted work are provided in a timely way so that we have enough opportunity to correct any faults or improve our deliverables. Apart from that, everything is in order.

Task 6C
2 minutes video link

https://youtu.be/5WEn19eEcuU