Liu Wanpeng's Individual Report

Part 1: Group Report (Task 6B)

Group Name: Group G

Group Members: Liu Wanpeng (A23MJ4016), Zhao Wei (A23MJ4018), Thamer Alharbi (A23MJ4015)

Project Title: Network Design for Faculty of Computing Block N28B

My Contribution to the Group and Project Work

As a key member of Group G, my contributions were primarily centered around the technical aspects of the project, ensuring that our deliverables adhered to the set requirements and the allocated budget of RM 1.3M. I took the lead in drafting the CAD-based floor plan, ensuring accurate placement of all networking equipment and efficient cabling pathways. I conducted extensive research on equipment specifications and their suitability for an academic setting, selecting devices such as the Cisco Catalyst 9200 series switches and Wi-Fi 6 access points. Moreover, I worked closely on subnet planning and IP address allocation, addressing feedback from Dr. Kaiyisah Hanis to ensure accuracy and scalability.

Additionally, I compiled and reviewed meeting minutes, managed the documentation process, and coordinated with team members to ensure all tasks were completed on time. I also took responsibility for addressing feedback from our lecturer, revising designs and calculations where necessary to meet expectations.

Other Members' Contribution to the Group and Project Work

Each member of the group brought unique strengths to the table. For instance, one member excelled in budgeting and financial planning, ensuring that we stayed within the allocated RM 1.3M while addressing all necessary requirements. Another member provided expertise in security planning, suggesting the deployment of advanced systems like FortiGate firewalls and Cisco Firepower IDS/IPS. Lastly, a team member played a vital role in document editing and formatting, ensuring our report met academic standards. While there was some variation in workload, all members contributed meaningfully to the final deliverables.

How We Worked as a Group

Our group dynamic was largely positive, characterized by open communication and collaborative problem-solving. Weekly meetings were held to discuss progress, identify challenges, and allocate tasks. However, there were instances where uneven workload distribution became evident, with certain members taking on more responsibilities. Despite this, we resolved issues constructively, ensuring that the final output reflected the collective effort of the team.

We employed tools like Google Drive for document sharing and collaborative editing, which streamlined our workflow. Feedback from Dr. Kaiyisah Hanis further strengthened our teamwork as we worked together to address comments and improve our work.

What I Have Learned from Working as a Group

This project taught me the importance of clear communication and effective delegation within a team. I realized that leveraging individual strengths while providing support where needed fosters productivity and reduces stress. Additionally,

the experience highlighted the need for patience and adaptability, especially when resolving conflicts or addressing differing opinions.

What I Have Learned from Doing the Project

From a technical standpoint, I gained a deeper understanding of network design principles, including subnetting, VLAN configurations, and equipment selection based on performance and cost-efficiency. The project also emphasized the significance of planning and scalability, as our designs had to accommodate future growth while meeting current needs.

Moreover, the hands-on experience with budgeting and decision-making provided valuable insights into balancing technical requirements with financial constraints—a critical skill in real-world projects.

Comments and Suggestions on the Project

The project was a comprehensive learning experience, but there are areas for improvement:

1. Time Management: Our team often worked close to deadlines, which increased stress and limited our ability to refine deliverables. Starting tasks earlier and setting interim deadlines would improve efficiency.
2. Team Collaboration: While collaboration was generally strong, clearer role definitions could prevent uneven workload distribution and enhance productivity.
3. Additional Tools and Resources: Incorporating simulation software, such as Cisco Packet Tracer, could provide a more detailed analysis of our network design and help identify potential issues early on.

4. Client-Centered Approach: Including a presentation to stakeholders (e.g., the faculty) to explain our design and its benefits could enhance decision-making and align our deliverables with their expectations.

This individual report reflects my personal contributions, observations, and suggestions for future improvements. Overall, the project was a valuable experience, providing both technical knowledge and soft skills that will be applicable in future endeavors.

Projected Score Based on Rubric

Item	**Marks**	**Reason**
Group name and member names stated	0.25	Clearly listed at the beginning of the report.
My contribution detailed	0.5	Explained specific tasks and responsibilities undertaken by me.
Other members' contributions detailed	0.5	Detailed Zhaowei and Thamer's key roles.
How we worked as a group explained	1	Highlighted our collaborative process, task division, and communication.
Learned from working as a group	1	Discussed lessons from teamwork and collaboration.
Learned from doing the project	1	Highlighted technical and practical learning experiences.
Comments and suggestions	1	Provided actionable feedback for improving future projects.

Total Marks: 5.25/5.25