COS20031: COMPUTING TECHNOLOGY DESIGN PROJECT

Reflection and Peer Assessment

Project Title: Transportation Management System

Client: ITL Logistics Corporation

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Date: 23th November, 2024

Prepared for: Lecturer – Dr. Thomas Hang

Declaration: I declare that this report is my individual work. I have not copied from any student's work or from any other source except where due acknowledgement is made explicitly in the text, nor has any part of this submission been written for me by another person.

Signature

Reflection

The most important things I learnt:

In this subject, I have learned a lot of new knowledge across the topics covered. I learned about teamwork and discovered new tools that help me collaborate more effectively with others. Most importantly, I've developed a solid understanding of databases and how to work with them, which is the key focus of this subject. An unexpected insight I gained was during a group project where we encountered a major database error. This incident taught me how the entities in a database are interconnected, which deepened my technical understanding. Overall, I feel satisfied, as I've achieved the learning goals I set at the beginning of the unit.

The things that helped me most were:

The things that helped me the most in learning and completing this unit were the Canvas slides, our lecturer's explanations, and the tools provided for the project. The Canvas slides provided knowledge and a clear outline of key concepts, while the lecturer's explanations helped deepen my understanding and clarify complex topics. Additionally, the tools provided made it easier to apply what I learned in a practical way, which was invaluable for completing the project successfully.

I found the following topics particularly challenging:

Throughout the project, I found creating an ERD diagram to be quite challenging. Although ERDs are a fundamental concept in database design, we struggled with them due to our lack of prior experience. Additionally, there are three levels of ERD diagrams, each with its own requirements, which meant we had to conduct further research at each stage to ensure accuracy. Without a correct ERD, we wouldn't be able to create a functional database for the project, making ERD diagrams both important and challenging for me.

I found the following topics particularly interesting:

Although ERD diagrams were challenging, as I mentioned, they were also the most interesting topic for me because they required me to conduct research to fully understand them. When working on a project, I enjoy gaining new knowledge, especially when it involves additional research. For this reason, I found every aspect of this subject engaging and interesting.

I feel I learnt these topics, concepts, and/or tools really well:

I feel that I have learned the topics, concepts, and tools of this unit quite well. These subjects were new to me, as this is my first time working extensively with data and databases. However, I believe I have developed a solid understanding, as evidenced by the positive feedback from our lecturer on our work, including ER diagrams, use cases for databases, normalization, relationships, and related projects. Additionally, my knowledge of data has enabled me to work efficiently with SQL Workbench, a tool that facilitates database interaction. Moreover, my teammates and I collaborated effectively, consistently striving to enhance our projects so that everyone could achieve a good score. Our communication was strong, supported by tools such as Jira and Confluence, which we used to track our progress and provide feedback on each other's work.

I still need to work on the following areas:

While I feel that I've gained a solid grasp of the material covered in this unit, there are still areas for improvement. One key area is developing a deeper understanding of advanced database concepts, such as complex relationships and optimization techniques. During the project, there were times when I found it challenging to create complex relationships between tables and maintain data integrity efficiently. Improving in these areas would help me design more scalable and robust databases in future projects.

Additionally, I'd like to strengthen my ability to troubleshoot and debug database issues quickly, which would contribute to better performance in both academic and professional settings.

My progress in this unit was …:

Throughout this unit, my progress was steady, although there were challenges along the way. At the beginning, managing deadlines and balancing the workload was difficult, especially as I was adapting to new concepts and practical tasks. However, by setting clear goals and breaking the project into manageable sections, I improved my time management over time. Regular collaboration with my teammates and utilizing tools like Jira and Confluence helped us stay organized and efficient. This ensured that we met deadlines and provided each other with feedback that enhanced the quality of our work. By the end of the unit, I was confident in my understanding of the material and my ability to contribute effectively to group projects.

This unit will help me in the future:

This unit has been a valuable experience for me, as it has allowed me to learn about databases, how to work with them effectively, and, most importantly, how to collaborate within a team. I believe that in a professional setting, working with colleagues—many of whom you may not know well—requires strong teamwork skills. Developing this skill will be essential for fostering good communication and cooperation in the workplace. Additionally, the foundational knowledge of databases gained from this unit will be crucial for working with larger, more complex databases in the future, supporting both my studies and career in software development.

If I did this unit again I would do the following things differently:

If I had the chance to take this unit again, I wouldn't change anything. As I mentioned before, this unit has been a great experience for me. I learned many new concepts, worked effectively with my teammates, and valued every moment of the process. While many might say they would try to improve or do things differently, I believe that my teammates and I truly put in our best effort for this unit. The knowledge gained and the teamwork experience are both precious to me, and I feel content with how we approached our work.

Other…:

Moreover, I learned to appreciate the value of peer feedback. Receiving constructive feedback from my teammates and providing it in return helped refine our project and improve our final output. This back-and-forth not only strengthened our work but also enhanced my communication and collaboration skills. These experiences collectively contribute to my growth as a developer, equipping me with both technical expertise and soft skills crucial for a successful career in software development.

Self-Assessment

Contributing to the Team's Work

I would rate myself at a High level because I consistently contributed to the team's success by ensuring my tasks were completed on time and to a high standard. Work was always divided equally among members, and I delivered quality results, evidenced by Dr. Thomas Hang's positive feedback on the ER Diagram I collaborated on with Phat. Beyond completing my own work, I took an active role in reviewing my teammates' progress and the quality of their contributions, offering reminders and suggestions for improvement when needed. Additionally, I was always ready to assist teammates facing difficulties, helping them resolve challenges and complete their tasks effectively, ensuring the team achieved its overall goals.

Interacting with Teammates

I believe I demonstrated a High level in interacting with teammates by fostering a positive and collaborative environment. I actively listened to my teammates' ideas, provided thoughtful feedback, and ensured everyone felt included in discussions. I consistently reminded team members about their tasks to keep the project on track and offered help when anyone faced obstacles. Whether it was assisting with technical challenges or encouraging teammates to stay focused, I prioritized maintaining strong communication and mutual support, which strengthened our teamwork and ensured steady progress toward our goals.

Keeping the Team on Track

I would rate myself at a High level in this area because I consistently took initiative to ensure the team stayed on course toward achieving its objectives. I regularly monitored the team's progress, reminded members of their responsibilities, and checked their work to ensure it aligned with the project requirements. When challenges arose, I identified potential issues promptly and provided constructive feedback or practical solutions to address them. These actions helped maintain accountability and ensured the team met deadlines while delivering quality outcomes..

Expecting Quality

I would rate myself at a High level because I consistently upheld high standards and motivated the team to strive for excellence. I encouraged my teammates to produce work that not only met but exceeded the project requirements. I demonstrated a strong belief in the team's ability to deliver exceptional results and emphasized the importance of quality in every stage of the project. This commitment to high standards contributed significantly to the overall success of the project.

Having related knowledge, skills and abilities

I would rate myself at a High level in this area because I consistently utilized my knowledge and skills to contribute effectively to the team's success. I demonstrated expertise in database design, ER Diagrams, and front-end development, which were crucial to the project's completion. Additionally, I showed a willingness to acquire new skills when necessary, ensuring that I could adapt to the team's evolving needs. My versatility allowed me to perform the role of any team member if required, ensuring that no aspect of the project was left unattended. This adaptability and technical proficiency significantly strengthened the team's overall performance.

Did you participate in a process of performance improvement of a teammate?

Yes, I actively participated in the process of improving a teammate's performance. Throughout the project, I consistently reviewed their work, identified areas that needed improvement, and provided

constructive feedback to guide them. When a teammate encountered difficulties, I offered assistance to help them overcome challenges and complete their tasks more effectively. Additionally, I reminded them of deadlines and encouraged them to stay focused, which not only enhanced their individual performance but also ensured that the team maintained steady progress toward its goals.

Assessment of teammate [Truong Le Minh Toan]

Contributing to the Team's Work

Toan has been a consistently hardworking and dedicated member throughout the project. His strong work ethic, combined with his proactive approach, ensured that all tasks were completed efficiently and on time. Toan regularly came up with creative and innovative ideas that enhanced the quality of our work. His input was invaluable, and his ability to contribute to both the technical and strategic aspects of the project made him an indispensable part of the team. I would rate him High because of his exceptional dedication, valuable ideas, and high-quality contributions that often went above and beyond expectations.

Interacting with Teammates

Toan communicated openly and effectively with all team members. He was always ready to listen to others and offer constructive feedback, helping to foster a positive and collaborative environment. Toan also frequently encouraged team members to share their ideas, creating an inclusive atmosphere where everyone's voice was heard. His ability to motivate and support others played a key role in keeping the team dynamic strong and cohesive. I would rate him High because of his excellent communication skills, his collaborative nature, and his ability to engage with the team positively.

Keeping the Team on Track

Toan's organizational skills and attentiveness to the team's progress were vital in keeping the project on track. He was always aware of deadlines and project milestones and took proactive steps to ensure the team remained focused and aligned. Whenever there were any issues or delays, Toan addressed them quickly and efficiently, providing clear guidance and support. His leadership in keeping everyone on the same page contributed significantly to the project's timely completion. I would rate him High because of his strong organizational abilities and constant vigilance in ensuring the team's progress.

Expecting Quality

Toan set high standards for the quality of work, both for himself and the team. He always encouraged the team to go above and beyond in delivering the best possible results. Toan's unwavering commitment to quality ensured that every deliverable was polished and met the highest standards. His passion for excellence was infectious, and it inspired the entire team to focus on producing work of the highest caliber. I would rate him High because of his dedication to maintaining a high level of quality throughout the project.

Having related knowledge, skills and abilities

Toan demonstrated exceptional technical knowledge and a broad range of skills that were critical to the success of the project. He quickly adapted to new challenges and was always willing to share his expertise with others. His technical abilities, combined with his problem-solving skills, enabled him to take on various roles within the team. Toan's versatility and deep understanding of the project's requirements made him an irreplaceable asset. I would rate him High because of his comprehensive knowledge and ability to contribute effectively to multiple aspects of the project.

Assessment of teammate [Phung Gia Khang]

Contributing to the Team's Work

As the team leader, Khang played a crucial role in driving the project forward. He not only managed the team effectively but also contributed significantly to the technical and strategic aspects of the project. Khang consistently ensured that tasks were distributed fairly and completed on time. His leadership helped the team stay focused on the goals while also maintaining a supportive environment. Khang was always ready to lend a helping hand to teammates when needed. I would rate him High because of his strong leadership skills, balanced approach, and consistent contributions to the team's success.

Interacting with Teammates

Khang's ability to communicate effectively as a team leader was one of his strongest assets. He kept everyone informed about the project's progress, clearly outlined expectations, and provided regular feedback. Khang's leadership style was inclusive, ensuring that all team members had the opportunity to express their ideas and opinions. His respectful and supportive nature created an atmosphere of trust and collaboration. Khang encouraged open dialogue, which helped the team stay aligned and productive. I would rate him High because of his excellent leadership and communication skills, which were essential for the team's success.

Keeping the Team on Track

Khang demonstrated exceptional leadership in keeping the team on track and ensuring that deadlines and milestones were met. He regularly checked in with team members to assess progress and provided guidance when obstacles arose. Khang was also quick to address any challenges, offering solutions and making adjustments to the workflow to ensure that the project remained on schedule. His ability to balance managing the project and supporting his teammates was a key factor in the team's success. I would rate him High because of his strong leadership and organizational skills in keeping the project on track.

Expecting Quality

Khang maintained a high level of expectation for the quality of work throughout the project. As a leader, he ensured that the team consistently delivered results that met or exceeded the project's standards. Khang was meticulous in reviewing deliverables and provided constructive feedback to help team members improve their work. His emphasis on quality was reflected in the final product, and his ability to guide the team towards maintaining these standards contributed to the project's success. I would rate him High because of his commitment to excellence and his role in driving quality throughout the project.

Having related knowledge, skills and abilities

Khang demonstrated strong technical expertise and a comprehensive understanding of the project requirements. He also excelled in his leadership abilities, managing the team and the project's various components effectively. His problem-solving skills and ability to adapt to changing circumstances helped him navigate the challenges that arose during the project. Khang's leadership combined with his technical skills allowed him to contribute across all areas of the project. I would rate him High because of his strong technical and leadership abilities that enabled him to guide the team to success.

Assessment of teammate [Dinh Viet Phat]

Contributing to the Team's Work

Phat's meticulous nature and attention to detail were key strengths that contributed to the project's success. He was consistent in delivering high-quality work and always ensured that every task was completed thoroughly. Phat's reliability and willingness to take the time to check and refine his work made him an asset to the team. Additionally, his willingness to help others whenever they faced difficulties demonstrated his commitment to the success of the whole team. I would rate him High because of his meticulous work ethic, reliability, and strong contributions to the team.

Interacting with Teammates

Phat's communication skills were one of his standout qualities. He consistently communicated clearly with his teammates and was always willing to listen to their perspectives. Phat provided valuable feedback and was approachable when others needed help. His ability to convey information in a clear and constructive way helped maintain an open and positive team dynamic. Phat also offered support and encouragement when teammates faced challenges, ensuring that everyone felt included and motivated. I would rate him High because of his excellent communication skills and his supportive, collaborative approach.

Keeping the Team on Track

Phat's attention to detail played a significant role in keeping the team on track. He ensured that tasks were completed with precision and always made sure that the team's work aligned with the overall project goals. Phat was proactive in identifying issues early and suggesting solutions to overcome them. His ability to stay focused on the small details without losing sight of the big picture helped the team stay aligned with the project's deadlines and objectives. I would rate him High because of his meticulous approach and proactive problem-solving skills.

Expecting Quality

Phat consistently maintained high standards for the quality of his work and ensured that others did the same. He was committed to delivering well-structured and polished work, and his focus on quality was evident in every aspect of the project. Phat also encouraged his teammates to review their work thoroughly to ensure it met the project's requirements. His dedication to maintaining high standards contributed significantly to the overall success of the project. I would rate him High because of his unwavering commitment to quality and his role in setting a high standard for the team.

Having related knowledge, skills and abilities

Phat's technical skills were a significant asset to the team. He applied his knowledge effectively to deliver high-quality work, and his meticulous nature ensured that his contributions were always precise. Additionally, Phat's ability to communicate complex ideas clearly and his willingness to support others highlighted his broad skill set. His depth of knowledge and ability to adapt to various aspects of the project made him an essential member of the team. I would rate him High because of his strong technical expertise, attention to detail, and supportive nature.

Assessment of teammate [Le Nguyen Thai Son]

Contributing to the Team's Work

Son contributed to the project by completing his tasks on time and ensuring that his work was up to standard. However, there were times when he could have contributed more actively, especially when the team faced challenges. While he did his part, there were moments where his engagement could have been stronger. I would rate him Medium because although his work was adequate, there were opportunities for him to take on more responsibility and contribute further.

Interacting with Teammates

Son communicated clearly with his teammates but could have been more engaged in team discussions. He listened to others' ideas but didn't always offer his input or collaborate as actively as others. His respectful attitude and willingness to work with the team were appreciated, but more active participation in discussions would have enhanced the team's cohesion. I would rate him Medium because while he communicated effectively, there were opportunities to participate more actively and contribute to discussions.

Keeping the Team on Track

Son made efforts to stay informed about the team's progress but could have done more to ensure everyone stayed on track. He was aware of the project goals but didn't consistently take initiative to monitor the progress or provide feedback. More proactive involvement in tracking the team's progress and addressing issues would have been beneficial. I would rate him Medium because he could have been more involved in ensuring the team stayed focused and on schedule.

Expecting Quality

Son expected his work to meet the minimum requirements, but he didn't consistently encourage the team to aim for higher standards. While his work was acceptable, he could have pushed the team to strive for excellence and ensure that the final deliverables were of the highest quality. I would rate him Medium because although he met the basic expectations, he did not always inspire the team to push for exceptional quality.

Having related knowledge, skills and abilities

Son demonstrated adequate knowledge and skills to perform his role, but there were areas where he could have improved or taken on more responsibilities. While he was able to complete his assigned tasks, he did not always take the initiative to learn new skills or expand his role within the team. I would rate him Medium because, although he had the necessary abilities, there were moments when his performance could have been improved by greater engagement and a focus on skill development.