Reflection

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I. ABSTRACT

The reflection presents how well our group worked together as a team during the procedure of working on the degree project. More specifically, it shows what challenges we encountered, how we assigned tasks and solved problems, what we learned, and what we enjoyed.

II. CHALLENGE

At the beginning, we encountered a thorny problem. Due to the addition of various innovative subsystems, the usage of a basic framework will reduce the difficulty of programming. It also has drawbacks, such as that user privacy cannot be guaranteed, and the UI design will be greatly reduced. As a result, we chose the advanced framework called Vue to improve the user experience.

This move has dramatically increased our workload and programming difficulty, which needs stronger teamwork to ensure project delivery, but we don't want to leave any regrets.

III. METHODOLOGY

In this project, we initially decided methodology of programming: labor division & cooperative solving, which is a useful way to reduce workload and programming difficulty. **What's more, all members contribute equally and satisfy with their responsibilities.**

A. Labour Division

According to the Gantt chart and work packages, we assigned managers and contributors to every group. There will be no less than two responsibilities for each group member to reduce the inductive bias while programming, which means the contributors are also the supervisors. At the beginning of each week, the group manager shall hold a meeting to assign work to team members and obtain the consent of the team leader.

B. Cooperative Solving

When someone faces unsolvable issues or problems, he should discuss the solution with other group members (including the group manager) and report it to the group manager. If it is well resolved, inform the manager that there is no need to continue to escalate. Otherwise, the manager needs to report to leaders and other personnel for joint consultation at the last meeting of the week. The risk plan would also be considered to achieve better quality and integrity of the whole project.

IV. ACHIEVEMENT

Based on the above criteria, everyone can effectively apply the knowledge to the project and can be quickly responded to by other members when encountering problems. When everyone works together, the capstone project is not far away. As a result, the project is progressing very smoothly: basically implemented steadily as planned, and finally experienced testing and optimization completely with documentation output and advanced documentation output.

While successfully delivering the project, each of us also benefited a lot. We got used to working together as a team. We learned popular technologies and practical programming approaches. As we noticed that the customer and user are the most important points to focus on, we tried our best to make demonstrations and documentation better, the same as the code. We also realized that the schedule and risk plans are the instruction and supervision on the road to success. We enjoyed the process of learning because it is the only way to grow. More importantly, knowledge gained from this experience is imperative to our further education and even workings.

V. CONCLUSION

In general, we were confused at first and met many challenges and problems, but we always came up with ways to solve them together, such as the labor division and cooperative solving. In problem-based learning, we have gained a lot and enjoyed it. And finally, we have broken through ourselves and can stand together more confidently and overcome everything together in the face of future challenges.

VI. ACKNOWLEDGEMENT