CS3343 Software Engineering Practice

BSC4 Project Group 6

Self-assessment Report

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I am a programmer in this project. The topic of the project, course scheduler is my idea. I hope that I could finish this topic as I think this is an interesting topic.

At the beginning, my teammates think that this is a difficult topic, as this topic may involve too many computations. But I think it is very challenging. Hence, I build up the structure of the programming quickly, and pay lots of effort on adding features and design a reasonable algorithm to do the thing I would like the program help me to do.

While the development process, I sometime figure out what is needed to make the program perfect. For example, core course support, lecture and tutorial, etc. these items are designed by me, and I also provide information for my teammate to make the test case.

I am not any focus on the feature and also the runtime, I think that a “brute force” solution is not acceptable because it is not effective and the computation time will be very long, hence I tried to use some method to reduce the computation, such as conflict number and predict the consequence of selecting a section, will it having conflict will other section. Although these things make the program become more complex and difficult to test, but my teammate helps a lot on it.

During the development, we have many ideas on how to handle the data, at first my design have two different classes to handle the data, one for simple cases and one for complex data. But someone comment that the logic of these two classes are very similar, maybe they can merge into one class. I very thank for this comment, it saves me a lot of time on implementing the addition feature on two classes. And I know that sometimes I may be to focus on coding, and forget about the time and the overview of the project.

Now, this project is now completed, however, I still think that I do not finish it. Although I am the main programmer and contributed a lot. There is more and more feature I would like to add. For example, supporting multi-timeslot section, and some auto-ordering that user don not need to input the priority, but the program will help to decide it base on timeslot, location, etc. As a programmer, I really hope to finish it and make my work perfect, and these features are discussed already, but because of my poor time management, they could not be finished. I hope that I can keep on develop it when I am free.

Thank of this project, although I did not do much thing about testing, but I have do much on refactoring, this help my teammate to understand the program and come easily test the program. This project also let me to actually participle on a software developing process, this make me more familiar about it. At the end, Thanks of my teammate, they all perform well on this project and help to improve our work. Although it might not be perfect and may be stills contain some bugs. But we really enjoy it.