

## **CRITERION E: EVALUATION**

### **Evaluation of the Product**

My initial success criteria are:

1. The client can set up the configuration of a new seating plan, including row and column number and the empty positions. – works well as the client can add new layout by clicking Options – Create a new layout, then input data and click “Create”. The client says that the design is approachable and clear for her, and she can understand all the message showing on the screen.
2. The client can clear and reset the setting of a seating plan. – works well as the client can choose to restart the seating plan by clicking “Restart”. The client says that she can let the system do the seating assignment again if she is not satisfied.
3. The client can select different seating scheme, such as random assignment, or moving by independent rows/columns. – works well as the client can select different seating schemes before assigning the seats. The client says that she can use different seating schemes and they all work.
4. The client can choose the type of layout used in the seating plan. – works well as the client is shown all layouts created by the client, and the client can choose one. The client says that she had created different layouts for different classes, and it helps a lot because it works for all classes.
5. The program can export the plan to a .csv (comma-separated values) file. – works well as the program do export the seating plan to a .csv file under the user’s directory. The client says that she can see a new file called namelist.csv created under Accounts/clientA/ directory.
6. The client can adjust the seating plan manually by directly editing the produced .csv file. – works well as the client can open the .csv file and make changes on it. The client says that she can make some minor adjustments on the seating plan if necessary.
7. The program can display the seating plan on a GUI. – works well as the seating plan is displayed on a new frame. The client enjoys the GUI because it is intuitive to her.

### **Recommendations for Future Improvement**

After consulting with my client, the feedback is mostly positive and she really enjoys it. Her problem of assigning seats manually is finally solved and can be applied to all her classes.

Despite the positive feedback, the program has some spaces for improvement. The GUI could be improved to make it more beautiful and attractive. Currently I am using all the default colors and shapes, and in the future I may add some pictures or icons.

The efficiency of the program may also be improved. For example, the use of sequential search might be unnecessary as it costs  $O(n)$  time complexity. I may replace this method with binary

search with  $O(\log(n))$  time complexity, that works significantly faster when there are more students.

I will also try my best to make it as a real product – creating an App and publish it to App stores in most platforms, so more teachers and students can use my program.

(514 words)