

CRITERION E: EVALUATION

Meeting the success criteria

Having talked to my client after testing, the success criteria from Criterion A were:

- *Make use of GUI to represent attendance sheet, class teacher's notes, and tuition fee spreadsheet:*
 - accomplished with organised panels and tables for each task.
 - The client suggested merging attendance with tuition since the purpose of tracking tuition is similar.
 - Appreciated, Send Notification Checkbox with searched student's parent phone number as it reminded her instantly.¹
- *Identify student through name and photo identification:*
 - the client can linear search student name in each panel.
 - indicated that photo identification was irrelevant.
- *²The client stated that login is done by selecting single or multiple students:*
 - this was irrelevant as she thought it was tedious to select the names of student every time she logged on and would require her to restart the program to select different students.
- *Identify the needs and/or progress of every individual student, the note should be able to be saved :*
 - accomplished well as Classes table shows and sorts the topics, notes, and grades.
 - Instead of averaging grades for randomized question papers, she preferred uploading document since it gave more control over the type of questions.
 - The code for saving the file was incomplete due to time constraints.
- *Allow the user to maintain a calendar of exam dates of students:*
 - not accomplished since JCalender import had a glitch.
 - ³Some attempt at it can be seen in the Tuition Panel, where the date doesn't appear next to the other columns entered.

(The feedback is transcribed in Appendix 3.)

Recommendations for improvement

The feedback that I received from the client was mostly positive. She was pleased with the security of the program through the Login Page, the visualization of data, and the organization which mimicked her task flow. There were many changes, approved by the client in informal meetings, to the solution from the prototypes presented in Criteria A and B as seen in the final product presented in Criteria D.

The main concern was that the data can't not be saved for the next use. This problem is crucial since its success criteria. However, it can be fixed with code for full file writing and reading. Which

¹ Monika Kejriwal, interview by author, country of residence, April 6, 2021, Appendix 3

² Monika Kejriwal, interview by author, country of residence, April 6, 2021, Appendix 3

³ Monika Kejriwal, interview by author, country of residence, April 6, 2021, Appendix 3

could've been done with more time. Secondly, the JCalender glitch in the Tuition table would not allow the date to appear next to the entered information. This problem can be solved in the future with a careful assessment of the code.

Noticing, the email formatting was incorrect she would remove it since it's not used often. Instead, she suggested being able to send notifications of the tuition directly to the parent phone number when searching student name. ⁴This would save time by not having to manually send herself. I think this would be a helpful extension to the solution but would be challenging to code. Noticing, the program is extensible since there are appropriate comments present and it is organized in classes, it can be considered. Regarding the ability to select files from her desktop, she suggested the potential to save file pathways and sort them by the student program or difficulty level. This extension would not be difficult to organize or code however, this also didn't fit the time limitations.

Overall, the client and advisor were satisfied with the final program. I was quite efficient in programming. My choice of OPP made the program manageable with complex techniques like encapsulation and aggregation and extensible since it is easy to change. Netbeans allowed me to create a satisfactory GUI for my client with sophisticated and external libraries.

Word Count: 579

Total IA Word Count: 1967

⁴ Monika Kejriwal, interview by author, country of residence, April 6, 2021, Appendix 3