

To see initial consultation See Appendix A1

Proposed Solution

After initial consultation, My proposed solution to this would be to provide a system that can take in CSV/excel files of the number of duties that need to be filled, what day they must be done and be able to allocate the duties accordingly. After it has performed all of this, It will return a CSV file containing duties along with the allocated teacher. The CSV file will then be sent to the Schools' IT department who will then put it in their system so that my client can handle the duties later (in case of exceptions)

In addition, My school is split into different sections with high school, middle school and elementary school. The duties are split between all these schools but change each semester. My client requires the duties to be changeable I.e (Remove, change, add). The teachers in our school also change so my system should be able to add more teachers and remove more teachers.

This new system will be better for my client as the system will automatically be able to allocate teachers to each of the required duties needed to be completed by the high school. This will save my client time and be more efficient allowing her to focus on other tasks that she must do.

The new system will be programmed in Eclipse's inbuilt function that lets me upload all my code to github from which my teacher can give me feedback and provide directions along with a GUI builder.

Word count : 253

Success Criteria

1. The client must be able to give a spreadsheet/csv files with duties
2. The client must be able to give another spreadsheet/csv files with teachers
3. The client must be able to give another spreadsheet/csv files with a list of Admins and Subject area Leaders
4. The system should be able to produce a csv files with a list of duties
5. The system should be able to accurately allocate each teacher to each duty
6. The system should not assign duties to teachers who are have a subject area meeting during that time
7. The system should not assign more than one duty to teachers who are also admins
8. The system should not assign more than one duty to teachers who are also head of departments
9. The system should not assign more than 4 duties to any teacher
10. The system should not assign duties to teachers who work more than 21 hours
11. The system should not assign duties to teachers who have 4 or 5 lessons on the day
12. The system should be able to prevent the entering of invalid data

13. The system should be able to tell the client a mistake and occurred and where it has occurred (If it occurred in the csv file)
14. The client should be able to easily tell the program where to store the CSV file on their computer (file path). This would require a GUI.