

Criterion E-Evaluation of the product

After Joel used the solution, I met with him to get his comments.

Success Criteria from Criterion A

A data input procedure that allows Joel to add and delete jobs both manually and by file, and that allows him to save the jobs to a file.

- Met: jobs, their job titles and their number of volunteers needed are able to be inputted and deleted from the database efficiently. He can both import and export the jobs into a CSV file.

A data input procedure that allows Joel to add and delete volunteers both manually and by file, and that allows him to save the volunteers to a file.

- Met: volunteers are able to be added and removed efficiently given their names and jobs desired. He can both import and export the volunteers into a CSV file.

The ability to show the current added jobs and the number of volunteers required.

- Met: on the console, the current added jobs and number of volunteers required are constantly updated.

The ability to show the current added volunteers and their desired jobs.

- Met: on the console, the names of the current volunteers and their desired jobs are updated constantly

The ability to assign volunteers to jobs to minimize the number of volunteers without jobs.

- Met: an algorithm is used to emplace volunteers to jobs so that the number of volunteers without jobs are minimized

After all the data has been inputted, the ability to show each volunteer and their assigned jobs.

- Met: the volunteers and their jobs are shown in a list in the console

A user-friendly interface so Joel can easily add and remove data.

- Met: the menu is listed and concise

Concise instructions to guide Joel through the process

- Met: the console contains concise instructions for easy navigation through the solution

Transcript of the discussion with the client is found in the Appendix

The client was very satisfied the product. The client has now left his manual input and synthesis of data and constantly uses the product whenever he is assigning jobs to volunteers. After overcoming some

preliminary difficulties when using the program, the client has started to recommend the product to other small churches.

Recommendations for extensions to the product

1. The ability of jobs to have restrictions on the type of volunteers.
 - The current product does not allow jobs to reject volunteers
 - Joel would like certain jobs to have age restrictions and to be dependent of years of experience
2. The extension of a GUI
 - Joel is satisfied with the current console based interface, however he feels that it has too much text.
 - Joel believes a graphical interface with buttons and widgets would be more intuitive instead of a console based menu.
3. The ability for the job/volunteer assignment algorithm to take into account the volunteers' desires
 - Currently the algorithm assigns volunteers to jobs solely based on the volunteers' abilities
 - Joel would like the volunteers' preferred jobs to be accounted for in the assignment algorithm.