Week 1 Work Log

During this last week, the main focus of our team was to setup variables in a way that will be more conducive to iteration and other logical arguments. Robert started by adding code to combine the objects in the different panels into arrays. This will make accessing components and iteration easier. Ancel worked on replacing repetitive and clunky code as well as combining more objects into arrays. The first issue that we encountered was that building the arrays in the Visual Studio pregenerated code would often lead to the code being deleted automatically. To avoid this issue, objects were combined inside a method in the simulation window class. Another issue we ran into was trying to organize the patients of different ratings without using 4 different queues (one for each rating). We eventually decided on an algorithm for determining a priority number based on severity and time and started working on a priority queue.

Expectations:

Ancel: At this point there were not many expectations. The last big deadline was to have a semi working program in time for a class presentation and that was met. For this week the only other thing would have been to be a little further in the code and have some functions working. Expectations for next week are to have the basics of the simulation working as well as work on the patient class.

Robert: As is still very early in the project, my expectations were not significantly high. I personally had hoped we might have gotten a bit further than we did, but we had quite a few subjects we needed to discuss before any actual programming could take place. I successfully added arrays for the different objects; however, we decided that it might be beneficial to make a 2d array for the objects contained on the timed test panel. I was unable to get that array made this week and hope to get it done next week. Ancel finished adding the iteration we had planned on including (the reason I set up all the arrays). He has handled most of the visual design and there were some things that need to be added to the panels, but due to a lack of communication we didn’t finalize how we thought that should work; so, not really a short coming.

Tasking:

Ancel:

Finalize logic behind the simulation window

Work on fleshing out the patient class

Robert:

Work on figuring out how to implement the instant simulation

Add option to change length of work shift

A circuit board

Description automatically generated