What information, necessary for the building of this project is missing?

The most major aspect of the document that is missing is that there are not clearly defined requirements for what needs to be on each of the panels. There should have been requirements stating the numeric ranges for the different boxes on the Starting Panel. There should also have been information tying the information entered into each data field to another part of the program that will be using said information or at a minimum an in-depth description of what effect each data field has on the outcome of the simulation.

Are the diagrams correct, complete and helpful?

The diagram is correct for the program windows. However, it is very minimalistic. It would aid understanding by including some of the specifics that can change between the starting panel and the Timed Simulation Panel. Specifically that the number of rooms and other parameters of the Timed Simulation are chosen before the Timed Simulation Panel is loaded.

What in the requirements document is incorrect, just plain wrong?

None of the listed requirements have any form of identifier to easily delineate them from other requirements listed in the document. Including markers help requirements to be quickly expressed and referred to in other documents. The requirement stating the run time will be 10 minutes is not completely accurate. The run time needs to be 1 min per hour shift length. There should also be a data field added to the Starting Panel to allow the user to edit this parameter.

State Machine for Patient Objects

Waiting Room

Being Treated

Leave Emergency Room

Room Opened

Patient Fully Treated

SetSentValues()

ChackChances()

int numRooms

int shiftLength

int[] severityRatings

int[] roomTimes

float delayMin

float delayMax

float delayAverage

float[] waitDelays

Form 1

int roomsEmpty

int shiftLength

int[] patientsLeft

int[] aveWait

float hoursLeft

Results

DisplayResuts()

Room()

GetRating()

GetPriority()

GetWait()

GetRoomTime()

CheckRoomTImer()

GetPatientNum()

SetRating()

SetRoomTimer()

int rating

int roomTimer

int waitTime

int roomTime

int totalPatientNum

double[] rateChance

Patient

GetPatient()

GetRandomTime()

SortPatient()

GetProirity()

AfterShift()

int closeWait

int totalWaiting

int[] patientsLeft

int[] aveWait

boolean morePatients

Patient[] room

Queue[] rating

InstantSimulation

GetPatient()

GetRandomTime()

SortPatient()

GetProirity()

AfterShift()

OpenRooms()

RoomPatient()

int closeWait

int totalWaiting

int[] patientsLeft

int[] aveWait

boolean morePatients

Patient[] room

Queue[] rating

SimulationWindow

HelpForm