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CSCI 370

Software Engineering

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Post-Mortem

Accomplished

I succeeded in getting the outputs that I expected. For instance, the system presented the mother's heartbeat which was detected by the LED sensors and optical lights when the heartbeat was detected. It also provided the user's unborn fetus' detected heartbeat with visuals by using the LED sensors and optician lights. Also, provided the audio of the fetus's heartbeat using a transducer. In addition, when the heartbeat of the mother and the fetus was undetected the system was able to display a message, "No heartbeat detected." The system was also able to display a message, "Abnormal heartbeat," when the heartbeats were detected abnormally.

In addition, the user interface of the Baby Heart system inclines to ease of use so the computer literate user can use the system without any difficulty. Thus, the audible and visual heartbeats were available for viewing as well as downloading and printing for later use.

Moreover, the system was available remotely so the system, data, record, and information could be accessed anywhere with no more than 4% downtime and the mean time between the failures exceeded 300 hours.

Failure

The system failed in fitting the whole output of 9 months of baby's audio and visual heartbeat record as well as mother's heartbeat in the storage which caused storage shortage.

Improvement

The things I would want to improve are:

- The capacity of the system for storing the output of baby's and mother's records.
- The hardware I needed for the watch was unavailable such as an optical LED sensor, LED light sensor, and a transducer that made it difficult to test the plan but I could get the information from reliable sources about the execution of these hardware.
- The system of a transducer should be integrated in a small device so it could be incorporated in the apple watch for the functionality of the system.
- At last, I learned that the availability of the physical hardware parts is necessary to carry out the software development so that the results and the interactive execution is evident.