***Real time patient***

***health monitoring***

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#### Aya Khalid Mohy Eldeen Abdel-Aal Soliman

***3nd bioinformatics***

***In what field of your project?***

Medical health

***What is the problem you’re trying to solve?***

Keeping track of the health status of the patient at home is a difficult task. Especially old patients should be periodically monitored and their loved ones need to be informed about their health status from time to time while at work. So we propose an innovative system that automated this task with ease.

***What are the benefits for the user?***

1. Remind old patients with their medication appointments

2.  Our system uses heartbeat sensing to keep track of patient health.

3.  Our system puts forward a smart patient health tracking system that uses Sensors to track patient health and uses internet to inform their loved ones in case of any issues.

***What is the timeframe, what are the deadlines?***

Last section in this term

***How do you plan to meet them?***

* Work with each other as team unit
* Team leader distribute tasks to the team
* Discuss tasks with each other
* Solve problems with each other

***What are the resources/objects we need on project ?***

* Pulse sensor
* Arduino Uno
* Bread Board
* 220-ohm resistors
* LED
* Connecting wires
* Battery
* Temperature sensor
* Buzzer
* Wifi module

***What’s the project budget?***

***700 Pounds approximately***

***Who are the people responsible for the project?***

* Aalaa Soliman Ali Ahmed Hagar ***section :2***
* Alaa Mostafa Saad Sanad El Tokhy ***section :2***
* Mohanad Hazem Sayed Ahmed Qabel ***section :2***
* Aya Khalid Mohy Eldeen Abdel-Aal Soliman ***section :2***
* Alaa Abd El-rafea Megahed Abd Elrafea Nossier ***section :2***
* Ghada Nasr Mahmoud Ahmed ***section :1***

***what are the roles of the team members?***

* Project idea ( Aalaa Eltokhy , Aalaa Soliman)
* Project name (All Member)
* System component (All Member)
* write project proposal (Aalaa Soliman)
* Modify project proposal (Mohanad Hazem)
* Heart rate monitoring system linked (Aalaa Soliman, Alaa Eltokhy)
* Project budget and cost analysis with details (Mohanad Hazem)
* Alarm system project with code (Alaa Abd Elrafea , Ghada Naser)
* Heart rate monitoring system linked with code (Aya Kalid , Aalaa Eltokhy)
* Temperature system with code ( Aalaa Soliman &Mohanad Hazem )
* Making a project video (Alaa Abd Elrafea)
* Create web page on github & youtube and upload files on them (Alaa Abd Elrafea)
* Application
* Arduino Combining Sketches
* Wifi Modulde

***Short explaination of the project***

Monitoring your beloved ones is becoming a more difficult task in the modern day life. Keeping track of the health status of the your patient at home is a difficult task. especially old patients should be periodically monitored and their loved ones need to be informed about their health status from time to time while at work. So we propose an innovative system that automated this task with ease. Our system puts forward a smart patient health tracking system that uses Sensors to track patient health and uses internet to inform their loved ones in case of any issues. Our system uses temperature as well as heartbeat sensing to keep track of patient health. The sensors are connected to a microcontroller to track the status which is in turn interfaced to an LED display as well as Wi-Fi connection in order to transmit alerts. If the system detects any abrupt changes in patient heartbeat or body temperature, the system automatically alerts the user about the patient’s status over IOT and also shows details of heartbeat and temperature of patient live over the internet. This IOT based patient health tracking system effectively uses internet to monitor patient health stats and save lives on time.in addition to an alarm works when biological values suddenly changes and send massages to their loved …

***Scheduling***

|  |  |  |
| --- | --- | --- |
| **Activity** | **From** | **To** |
| **Idea** | 25-9-2019 | 3-10-2019 |
| **Writing proposal** | 4-10-2019 | 7-10-2019 |
| **Modifying proposal and finding project name** | 8-10-2019 | 9-10-2019 |
| **Buying material** | 10-10-2019 | 14-10-2019 |
| **Coding & Design tools** | 15-10-2019 | 25-11-2019 |
| **Testing** | 26-11-2019 | 6-12-2019 |