Health Monitoring Kit with Data Analysis

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PRESENTATION OUTLINE

- Introduction
- Implementation
- Block Diagram
- Working
- Conclusion

INTRODUCTION

- The vital signs of people is crucial in today's medicine.
- It's imperative that today to make a portable and low cost Electronic Health Monitoring Kit to deploy in rural areas and health camps in order to measure vital signs in longer period for proper analysis of the patient and to take actions accordingly.

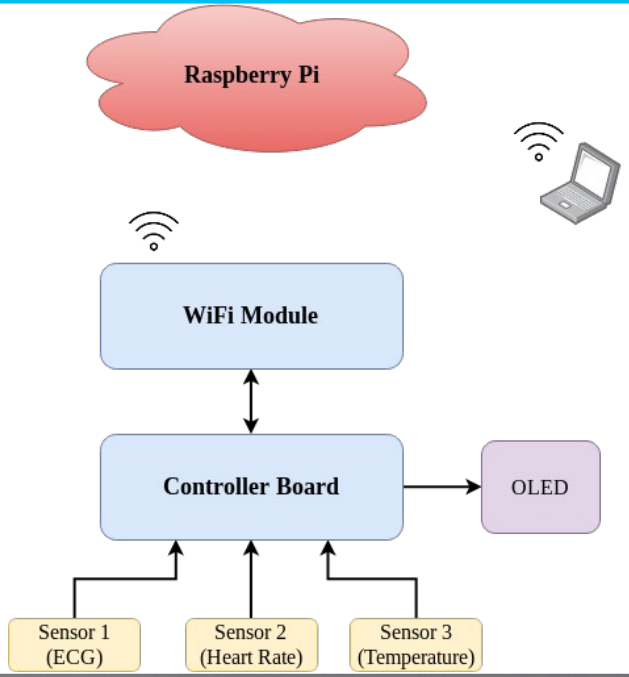
HARDWARE

- Controller Board (Arduino Based Dev. Board)
- WiFi Module (NodeMCU)
- Cloud (Raspberry Pi 3 Model B+)
- Display Module (OLED)
- Sensors

SOFTWARE

- Arduino Dev. Environment
- Python Dev. Environment (Python3)
- GNU Linux (Raspbian)
- Data Analytics (Pandas)
- Web Frame Work (Bottle)

BLOCK DIAGRAM



WORKING

- The Controller Board collects the data from all the Sensors and sends the data to WiFi module.
- This Data is sent is sent to the Cloud in JSON format through WiFi communication.
- The received data is used for Data Analysis and a Web Portal is hosted on the cloud.
- These Analysis can be accessed on any browser platform by connecting to the cloud.

CONCLUSION

With this project we can build a Portable and Low Cost Health Monitoring Kit to deploy in Health Camps and Rural areas