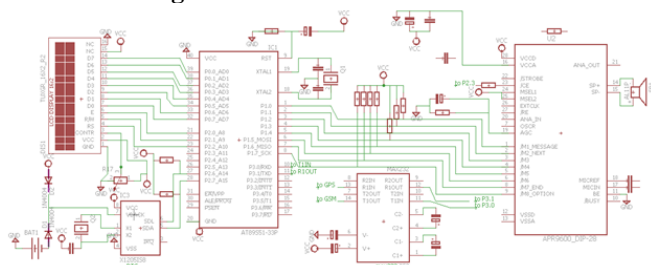


2.5 Microcontroller

Microcontroller AT89S52 is being used in our project for controlling health monitoring module as well as voice guider module. A programme is been installed in the microcontroller using keil software and the predefined threshold value is been set. When the heat rate or temperature exceeds that value, microcontroller will activate the voice guider module.

2.6 Circuit Diagram



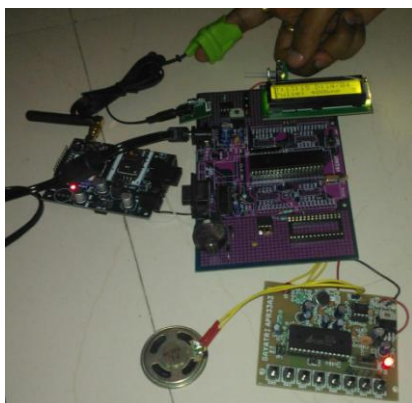
2.7 Working

When the ac mains is switched on, a 12 volts supply is given to the transformer. This voltage is then stepped down to 5 volts and sent to the power supply board. Here the ac volt is converted to dc using a series of resistors and a rectifier network. The capacitive network then filters the dc voltage. The regulated output is sent finally to the micro controller board. In the micro controller board the microcontroller IC AT89LP51RD2 is pre embedded with a software program using a keil compiler. The input of the micro controller is given from the oscillating crystal 11.0592 via the pins X1, X2(18,19). The entire system is further interfaced to a pc using a MAX 232 port to connect the RS232 cable.

2.8 Applications

- The system is very useful in hospitals as well as in house as it can be installed anywhere very easily.
- It can be used in the hospitals to remind patients about their medications
- To monitor health of the elderly people.
- It can also be used in homes as use of GSM makes it useful in emergency situation. hospitals are very few or very far from the locality.

3. Results



4. Conclusion

Hence an attempt is made to design a device which not only acts as an alarm system but also can measure the parameters of the body and the attempt is successful. We conclude that this device can be used for better medical monitoring and medication. The voice module gives perfect reminder for the medicines so that we will not forget at any time to take our medicines. And the addition of heart rate sensor and temperature sensor provides better health monitoring for elderly people

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Author Profile



Sameer Batra has received the Bachelor of Engineering degree from Vivekananda Education Society Institute of Technology Mumbai in Electronics Branch. He has also completed Certification Course in Embedded Programming From CDAC ACTS (Center of Development in Advance Computing) Pune .



Sunny Batra has received the Bachelor of Engineering degree from Thadomal Shahni Institute of Technology Mumbai in Biomedical branch. He is working with Kudos IT pvt ltd as a Biomedical Engineer.