**SMART HEALTH CARE**

The Internet of Things (IoT) has been widely used to interconnect the available medical resources and offer smart, reliable, and effective healthcare services to the students and elderly people. Health monitoring for active and assisted living is one of the paradigms that can use the IoT advantages to improve the healthcare of people lifestyle. This project aims to analyze the collected data to find Body Mass Index (BMI) of students residing in India. Based on the collected data, the students were grouped according to their BMI levels (Normal, Obese or Underweight). Using **Machine learning algorithm** the health issue areas were identified, and the status is periodically reported to thePrimary Health care centre for further remedial action.

**OUTLINE:**

Initial step is to collect data of students from schools during health camp; this can be achieved by providing all students with an integrated digital RFID ID Card to them. By using a customized application, the measured data is uploaded in the database using this unique RFID of the student, which is further used for data analytics.

**REQUIREMENTS:**

* PC/Laptop with Internet
* RFID Reader
* RFID ID cards for all Students
* Finger print sensor
* Server to Store and Process Collected Data
* 24\*7 Net connection for server
* Controller for updating the BMI value to the cloud
* Sensors to measure the height and weight of the students.

**WORKING:**

By organizing health camps in schools and government hospitals, the student’s health records will be collected and uploaded to the database through custom built application. Along with these details, student’s Location and Contact details also updated for further remedial action.

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| --- | --- | --- |
| S.No |  |  |
| Stationary items |  |  |
| Paper |  |  |
| Travelling |  |  |
| Components |  |  |
| Laptop |  |  |
| Salary |  |  |
|  |  |  |

1. Age
2. Height
3. Weight
4. Eye sight (Long sight / Short sight - Direction, Color)
5. ECG level
6. Dental check
7. Ear test

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