**SMART HEALTH CARE**

**OUTLINE:**

Initial step is to collect data of students from schools during health camp, this can be achieved by providing all students with a digital RFID ID Card to them. Which holds a unique RFID of all students, is used to Store or Update students data in database that is  further used for data processing. And the goal is developing an application that can get the data from student by manual input and on Scan of RFID it will be Stored in database.

**REQUIREMENTS:**

* PC/Laptop with Internet
* RFID Reader
* RFID ID cards for all Students
* Server to Store and Process Collected Data

**EXPLANATION:**

RFID reader will be attached to the Laptop or PC that is carried by the Health Camp organizers , developed application will be installed on it. And all students will be provided with RFID ID cards , during health camp the camp service members will gather the required data .Instead of manual entry in papers ,with the help of human assistance data is uploaded to the Application along with scanning RFID of student.

This part requires internet connection , with the help of some packages application will upload the collectd data to the MySQL Database. This data is stored securely and is used for further Processing.

This is the analytics part of data, ith this all the data in the database is selected and is segregated depending on their ZIP/PIN code. After that individual students Age,Height,Weight,Gender data is used from database and they are categorised as Below BMI or NORMAL.

After calculating they are segregated in a separate list, this all takes place on server side internally. Upon calculating all this results will be displayed on a separate webpage categorising Normal or Below BMI.

Result displayed will be grouping students derails and ZIP code and **Students below critical level automatically notified to the nearby Hospital for Special Care.** Students details are sent to Nearby hospital along with their collected health data to make works of Doctors easy for Diagnosis. This process will be done by our inbuilt **SMS System** which sends notifications to Hospitals.

**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 analyse 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.

**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
* Server to Store and Process Collected Data

**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.