PERSONAL HEALTH MONITOR USING IOT AND AR

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As per the Medical Research, nearly 20 organs are connected in terms of Acu- pressure points to the human feet. The data of various body organs are collected from the pulse rate sensor, temperature sensor in the footwear. The pulse rate sensor tracks the heartbeat. The temperature sensor measures the body heat. The data collected are then sent to the cloud data base via WI-FI module using IOT, where the data is stored in Firebase/cloud database. An Augmented reality App is created using UNITY software. The data sets are loaded from VUFORIA database. The data which is stored in the server will be fetched into the augmented app with the help of internet. With the reference of the collected data, the diagnosis of the body parts are done. The results from the diagnosis are displayed in a 3D view which can be viewed in our smartphone, so that it will be very useful for the user to diagnose him. This app will be economically efficient for the persons who cannot afford a huge amount of money for a routine checkup, if our product is paced in a Public health care centre. Moreover, it can be easily commercialized. As this project is based on arduino, here it communicates with LM35 temperature sensor and pulse rate sensor. This arduino based heath monitor can be divided into three sections. The first one deploys temperature sensor LM35 which senses the temperature and pulse rate sensor which senses heart pulse rate, the second section involves converting the temperature value into suitable numbers in celsius scale which is done by arduino and the final part of the system is the human model display on mobile app. Here Arduino UNO controls the whole process.