

ABSTRACT

Posyandu (Integrated Service Post) is a unit that is engaged in the field of population health services that are easily accessible and inexpensive. One of the services available is weighing and measuring the weight, height and body temperature of toddlers every month. From these checks, it can be seen the physical growth of toddlers through a developmental graph. The problem that arises when the checking schedule takes place is that equipment and services still use conventional methods, causing the checking process to be less than optimal.

The purpose of this research is to make practical equipment to carry out weighing, height measurement and temperature checking simultaneously at the same time and to create a system to manage and monitor toddler information into data about toddler development every month, then compare it with standard information on normal body conditions in Indonesia. Integrated Healthcare Center. This study uses a prototype procedure in its development. There are three sensors, namely the CZL635 weight sensor with the help of the HX711 module, the MLX90614 temperature sensor, and the HC-SR04 ultrasonic sensor.

The method used in this study has several stages, namely: communication with the Posyandu, modeling and designing examination tools for toddlers, building prototypes, implementing and receiving suggestions and input. The system is able to store and process data from tools that are made into information about the current growth conditions of toddlers through growth charts that can be accessed by parents of toddlers through the website, besides That parents of toddlers will receive a recap of examination data through the telegram application. The parameters used for testing are Weight, Height, and Temperature.

Keywords: *Posyandu, Toddlers, Sensors, Internet of Things.*