

ABSTRACT

On March 11, 2020 COVID-19 (Corona Virus Disease 2019) was declared a pandemic by the World Health Organization (WHO). COVID-19 is caused by the spread of Severe Respiratory Syndrome Coronavirus 2 (SARS-CoV-2). This virus attacks the human respiratory system and causes mild symptoms such as runny nose, sore throat, cough and fever. One of the efforts made is by treating and isolating patients who have contracted COVID-19. During the treatment and isolation process, the vital signs (vital signs) of COVID-19 patients will be monitored and checked periodically, in this case the monitored parameters are blood pressure, temperature, pulse, respiration rate (RR), oxygen saturation (SpO₂).

For now monitoring of patient vital signs is still done manually and for ICU patients it is monitored using a bedside monitor. In this case the Internet of Things (IoT) can help the process of monitoring patients infected with COVID-19, because IoT allows humans, objects and services to interact and share data to achieve a goal. In the case of monitoring COVID-19 IoT patients, IoT technology can assist medical personnel in monitoring patient vital signs in real time. In order for the collected data to be useful as information, we need a dashboard that will visualize the data.

The Covid-19 patient monitoring dashboard was developed to visualize patient data needed in the process of monitoring Covid-19 patients. Development is carried out using the prototyping process model method, which is divided into several phases, namely the communication phase, quick plan, quick design modeling, construction of prototype, and deployment, delivery, & feedback. The results of this development can later become a tool to assist medical personnel in carrying out the monitoring process for both Covid-19 patients and patients with other diseases.