

ABSTRACT

Health monitoring systems in hospitals and other health centers have experienced significant growth, and portable health monitoring systems with new technology are of great concern in many countries around the world today. Entering 2020 the world was shocked by the outbreak of a new virus, namely COVID-19. According to data contained on the official website of the COVID-19 Task Force, there are currently 295,499. In Indonesia this figure continues to increase every day, coupled with a high mortality rate. In addition to the absence of a vaccine from COVID-19, the failure to prevent Corona disease is also determined by poor surveillance, namely monitoring the conditions of disease progression and its spread.

The advent of Internet of things (IoT) technology is facilitating the advancement of health care from face-to-face consultation to Telemedicine. Tracking activity and monitoring the patient's vital signs is one of the preventive measures that can be done as a surveillance system to identify the level of spread and control the spread of infectious diseases.

An IoT-based non-contact Vital sign Monitoring system using this website has been realized. QoS testing based on existing parameters produces Throughput with an average value index of 382.19 kb/s, Delay/latency with an average value index of 341,72 ms, Packet Loss namely with the average value index is 0.73 % and Jitter with an average value index of 341.73 ms

Keyword : *IoT, Telemedicine, Quality Of Service, real-time, webservice*