

ABSTRACT

The livestock sector is an activity that plays an important role in national development. One that has high economic value and is important in people's lives in Indonesia is cattle. However, the high growth rate of the human population is not followed by the growth rate of the beef cattle population. This final project presents the design and implementation of a prototype that has the ability to monitor behavior in cattle. Monitoring cow behavior is based on IoT using a Pulse sensor, MPU-6050 sensor and HW-484 sensor. The third sensor sends data to MySQL in the form of a database and then forwards it to a web application using Bootstrap. This system is tested with a scenario where sending data from sensors received to the database has a time delay of 3 seconds and then the delay for data retrieval from the database to the graphics on the web application is around 3 seconds. Users can also easily access the web application by logging in with an account and easy chart reading. This study aims to make it easier for cattle breeders to monitor the health and behavior of the cows. In addition, this research can also be useful in terms of knowledge development in the field of information technology applications

Keywords: Monitoring System, Web App, Cattle IoT