DEVELOPMENT AND IMPLEMENTATION OF AN ANDROID-BASED LIVESTOCK CONTROL APPLICATION (Case Study: Jogja Livestock Village)

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ABSTRACT

This research is research conducted to develop and implement a monitoring system and find out the results of testing the livestock monitoring application in the Jogja livestock village. Through site surveys, running system analysis, proposed system analysis, testing, and implementation, this application allows farmers to monitor livestock in real-time. The farms in the Jogja livestock village still do not have their own livestock monitoring system, so the author wants to develop and implement an Android-based monitoring application by the author for use in the Jogja livestock village. The monitoring process implemented by the author in the Jogja livestock village is in the form of livestock data which will always be sent every day using an application. This data will later be displayed and will be monitored by the admin, namely BPK. Bambang himself is the chairman of the livestock breeders' association in the Yogyakarta livestock village. Using this application is very simple and easy because farmers only input the monitoring results every day for each cow and goat. The data entered is in the form of feed used by farmers, the number of deaths, the number of animals affected by disease, and the amount of feed given. This activity process will always be supervised and monitored so that the quality and development of the livestock is good. Blackbox testing showed the app ran smoothly and as expected, with a REST API in Firebase for real-time monitoring. It is hoped that this application will save farmers' time and energy while improving the quality of livestock. Research will continue to be developed to add new features.

Keywords: Supervision, livestock, cows and goats, application, android