ABSTRACT

Water is a basic need that must be obtained by every human being. In Indonesia, water for community needs is managed by regional drinking water companies for regional and city coverage. Aside from the PDAM, the Village Drinking Water Company, which manages the distribution of water sourced from springs in the village, one of which is PAMDES Sindangsari, can manage water for the community. The current conditions regarding customer data management, water meter recording, and administration are still carried out manually using physical books, which are very prone to damage or loss. In addition, in terms of time efficiency, recording the water meter manually makes the recording time longer, from the process of reading the water meter to the water bill for the following month.

Based on this problem, a solution is proposed that can read and record water meter numbers at PAMDES Sindangsari in real-time without having to do manual recording and recapitulate the recorded data into an Excel file. The system is in the form of a mobile application that can operate on the Android system. so that PAMDES officers can record water meters flexibly, in real time, and efficiently.

The results of the study state that the mobile application for recording water meters has been well made and has a feasibility level of 84.7% based on the results of the beta testing that has been carried out. In addition, the questionnaire was declared valid for each question asked and was declared reliable with a moderate index of 0.571. The resulting impact on the Sindangsari PAMDES service is that the time needed to record the water meter to issue a water bill for the following month can be cut to just 3–4 working days. so that PAMDES officers can provide more services in other processes, such as the maintenance of waterways.

Kata Kunci: *Mobile, Pamdes, React Native.*