

ABSTRACT

Perusahaan Daerah Air Minum (PDAM) is a company that provides clean water needs are managed based on local autonomy. Policies and services provided is different from each city. As in Garut district to serve the needs of customers in each region it was established the regional office. Duties of the regional offices in addition to serving complaints from customers also notes the amount of water usage from each customer is recorded manually and must sequentially based on a list of customers that have been provided to be reported to the central office. Central PDAM which manages the data from each region. It is felt less efficient than the office themselves, because in addition to reporting the results of the reading time consuming especially for areas that are located far away from the central office and manually recording the results allow for errors in the recording of customer data column.

Of the problems and needs of the above then designed an android based applications that can enter the data in a MySQL database that will be hosting so not only in terms of applications that can access the database. From the admin side can access it through the website, but the end of this project will only discuss the application side. These applications are designed with the Java programming language for Android with minimal SDK used is Android version 2.2 (Froyo) and decompiled with android version 4.2 (Jelly Bean). So for android phones with version 4.2 was below the application can be used.

Based on the results of the testing that has been used for the alpha testing system functionality testing showed that all application functions can work well, for accuracy testing showed that the process of barcode scanning and data capture 100% successful and the data transmission delay of no more than 1 minute with minimal network conditions EDGE. Beta testing is done by distributing questionnaires to 30 employees and the data shows that for the assessment of the application features by 4 in the table subjective judgments that are in the good category and for an assessment of the benefits of the application is at 4.53 which is in both categories.

Keyword: Android, PDAM, Barcode, Barcode scanner