ABSTRACT

One of the most basic needs of humans and living things, in general, is water. The availability of water is important to maintain because it affects the quality of human life. The government provides PERUMDAM to meet the availability and distribution of water for public use. Even so, in the distribution of water, there will be some damage to the distribution equipment that will occur at any time. To prevent it, PERUMDAM officers carry out routine activities to check the health of water distribution equipment. This routine can be expensive.

Therefore, in this final project, a mobile application is made that can facilitate PERUMDAM officers in checking the health of water distribution. This application is connected to several IoT devices that measure several parameters related to water availability. It is hoped that this application can reduce operational costs and there is no need for routine checks on the PERUMDAM water distribution network.

Based on the results of this final project, it can be concluded that the mobile dashboard and EWS applications can facilitate PERUMDAM officers in monitoring the health of water distribution. IoT devices can be monitored in real-time and the application can provide notifications if an anomaly occurs in the monitored device.

Kata Kunci: *Internet of Things, mobile application, dashboard, water monitoring, early warning*