ABSTRACT

One example of care and maintenance in fish farming is to provide regular feed so that the fish always get sufficient nutrients to support growth and health. In a previous study entitled "Design of an IoT-Free Scheduling System on Fish Feed Throwing Machines using RF Communication" discussed the construction of a fish feed throwing machine that can regulate feeding according to a schedule that can be set via the android application. However, to check the availability of feed on the machine is still done conventionally. Therefore, in this study, additional features were carried out in previous studies. These features are the feed availability detection feature and the android application notification feature. The distance measured using a meter is in accordance with the measurement using an ultrasonic sensor. Then the notification that appears on the scheduling application is in accordance with the conditions that occur in the field. And the time set in the scheduling application and the time received by the fish feed throwing machine are appropriate, but the feeding occurs 1 minute earlier than the time it should be. This happens due to the time difference in the RTC module which is 1 minute different.

Keywords: scheduling, notification system, fish feed, IoT and RF.