

ABSTRACT

Feeding and feeding on fish is key to growth and fish production, fish feeding management is one of the main challenges for fish farmers. Until now, fish farmers do fish feeding to the pool area by manual which is spread by hand. Along with the development of information technology that supports automation tools that opens great opportunities to improve the efficiency of processes that have been done by humans in all processes. By utilizing existing technology fish feeding activities can be automated.

In this final project has been made a prototype of android based automatic fish feeding using DHT22 sensor to display the data of fish feed moisture and Load Cell 10 Kg sensor to display data of fish feed amount contained in automatic fish feed equipment utilizing wireless communication. The resulting data sensor is forwarded to the server and the results can be viewed through the android application on the user's mobile phone. Users can also know the moisture and the amount of fish feed real time through android applications. Tests conducted on fish ponds on land, the system is not suitable for use in aquarium and sea.

The purpose of the manufacture of automatic android based fish feed prototype is to improve the management of fish feed that can be controlled and display data in the form of moisture and the amount of fish feed on the automatic fish feed equipment from long distance through the android application on the user's mobile phone. So the user can arrange the process of feeding the fish and know the state of the fish feed and the availability of fish feed in an automatic fish feed equipment.

Keywords : *android app, feed fish, prototype*