

ABSTRACT

IMPLEMENTATION OF A FISH FEEDER CONTROL SYSTEM IN FISH PONDS BASED ON THE INTERNET OF THINGS (IoT)

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Catfish farming is a vital economic activity that plays a key role in meeting Indonesia's animal protein needs. Catfish production has consistently increased each year, reflecting its growing demand. However, farmers, particularly in Tanjung Harapan Village, face significant challenges, including predatory pests such as birds, snakes, and lizards, as well as difficulties in maintaining an optimal feeding schedule. This research seeks to provide an innovative solution to these problems through the implementation of an Internet of Things (IoT)-based fish feeder control system. The system is designed to improve feeding efficiency and reduce losses caused by pests. The findings indicated that the integration of IoT in the fish feeding process not only enhances production effectiveness, but also significantly minimizes losses due to predation. The implementation of this technology is expected to positively impact the welfare of fish farmers in Tanjung Harapan Village and contribute to the sustainability of Indonesia's fisheries sector.

Keywords: Fish Farming, Fish Feeder Control System, IoT

